



CENTRE FOR
SUSTAINABLE ENERGY &
RESOURCES MANAGEMENT

Renewable Energy Resource Assessment in Kabupaten Kepulauan Selayar

Version 3

Project 4: Marine Renewable Energy

GCRF Blue Communities Programme

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EXECUTIVE SUMMARY

Based on the results of the resource assessment and site investigation that has been undertaken, it is feasible that, the potential of wind, solar, and biomass in Selayar Regency can be converted into electricity. The potential for tidal energy needs to be further investigated given the limited data obtained during fieldwork and the limited access to locations that have been identified as having potential tidal energy. The potential of solar energy is spread evenly across the Islands with higher intensity in the north and south of the Island of Selayar and on Tabolongan and Polasi Islands where the land is relatively flat and not covered by highlands. The potential of wind power is located at the top of the plateau on the east side of Selayar Island and the north and south sides of Selayar Island. These areas are relatively flat where the reaction is directly affected by the west and east winds. The north side of Selayar Island is very suitable for the development of wind farms where grid connections already exist, there is extensive land available, and good transportation routes. The potential of biomass from agriculture and ocean waste is also spread throughout the Kabupaten Kepulauan Selayar region with a production capacity of 125 tons per day equivalent to 131 MWh of electricity per day.

The development of the Renewable Energy sector will certainly be very beneficial for the Island to reduce dependence on fossil fuels, especially diesel which is currently the main fuel for electricity generation. To step into the exploitation stage of the potential of renewable energy, long-term resource assessments are required to find out more details about the potential of renewable energy. The Selayar Regional Government are encouraged to promote the potential of renewable energy in its area to related parties such as the central government, potential investors, and PLN so that the potential of renewable energy can be developed immediately. A long-term business model is essential and should be prepared to ensure the sustainability of renewable energy development projects given the size of the investment and the high electricity demand of the local community. A sustainable business model must also be applied to existing renewable energy power generation facilities such as PLTS and PLTMh which are not functioning properly so that these facilities can be revitalised. Considering the range of services, experience and technical capabilities available, it is highly recommended to involve PLN in the operation and maintenance activities of the renewable energy facilities. PLN's plan to build a PLTG will certainly be very useful to increase energy security and reduce the carbon emissions that have been produced by the PLTD.

Selayar Islands Regency has much diverse tourism potential that can be developed into eco-tourism. There is undoubtedly a market for this. The increasing popularity of green tourism can also be combined with the development of renewable energy on this Island by providing electricity from renewable energy to meet electricity needs in tourist facilities such as resorts and hotels. In general, the development of renewable energy on the Island of Selayar will provide a significant positive impact on energy reliability, tourism, socio-economic activities, and the environment.



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1. INTRODUCTION

Data from the National Electric Company (PLN) states that there is one diesel power plant (PLTD) with a capacity of 10 MW located in Tangkala that supplies electricity on Selayar Island. The peak load on Selayar Island is currently 5.5 MW with annual growth of around 0.2 MW. According to the Local Investment Coordinating Board (BNPM), this year PLN plan to build a gas power plant (PLTG) with a capacity of 20 MW in a location adjacent to the PLTD site (Firman, 2018). Data from Statistics Indonesia (BPS) shows that in 2017, the electrification ratio in Kabupaten Selayar was 65.73% (Selayar, 2018).

PLN Selayar Branch also manages village electricity in Pasimasunggu District with an installed power of 2×100 kW and procurement of generators in four other Island sub-districts with a capacity of 100 kW each. In 2006-2011, a solar power plant (PLTS) was built to meet the electricity needs of the Islands. This incorporates as many as 2,689 PLTS dispersed units, construction of a centralized PLTS unit with a capacity of 5 kW in Dusun Bajo Kayuadi Taka Bonerate sub-district and installation of 1 PLT package Solar-Wind Hibryd with a capacity of 20 kW in Appatanah Village, Bontosikuyu District.

In 2008, the construction of two $\times 100$ kW capacity wind power plant (PLTB) in Barubasa, Pamatata Village, Bontomatene sub-district. However, to date, the PLTB has not functioned. In the same year, a 5 kW capacity Hydroelectric Power Plant (Pico Hydro) was constructed in Jammeng Timoro, Laiyolo Baru Village, Bontosikuyu District (HL, 2012).

In 2003, there were 840 electricity poles that were spread over three main sub-districts, namely Bontomatene District (243 poles), Bonto haru District (157 poles) and Bontosikuyu District (440 poles). This programme is funded by the Selayar Islands Regency Government through the Regional Budget (APBD). In 2008, the construction of a 12.7 km medium voltage network / low voltage network (JTM / JTR) was conducted in Bontomatene District (from West Lambongan Village to Bungaiya Village). In 2010, the construction of a 17.8 km JTM / JTR electricity network in four villages in Bontosikuyu District, namely Laiyolo Village, Binanga Sombaiya Village, Lantibongan Village, and Lowa Village.

In 2009, there were 1,789 poles (81.635 km long) in the mainland district of Selayar Regency which were also funded by the Regional Budget. In 2010, the construction of a 48.14 km JTM / JTR electricity network was implemented. According to the website of the Ministry of Energy and Mineral Resources, the national Basic production price (BPP) is US \$ 15.26 cent per kWh while the Selayar Islands BPP is US \$ 7.86 cent per kWh. This is of interest for independent power producers (IPP) in terms of investment in power plant concentration in Selayar (ESDM, 2017).

According to the report of the office of the Selayar Regent, the total fuel consumption in 2018 was 13,105 kiloliters with average monthly consumption of 1,092 kiloliters consisting of 9,184 kiloliters of gasoline, 3,783 kiloliters of diesel, and 138 kiloliters of pertalite. The calculation of the amount of fuel consumption is based on the report on fuel unloading at Benteng port. The fuel supply on Selayar Island is mainly supplied by four gas stations spread around the city of Benteng. In areas outside the city of Benteng, there are many small shops that sell fuel. According to observations carried out during field work and interviews with the local community, gas stations do not serve fuel sales throughout the day due to lack of supply, only at certain hours which results in long queues much of the time. At the small fuel retailer level, fuel supply is relatively more stable with prices around 25% more expensive than at gas stations.

2. METHODOLOGY

Secondary data collection is done by collecting data through Aquatera's RADMAPP tool, global solar atlas, and global wind atlas prior to fieldwork. Secondary data is used for the initial reference for determining the location of the resource assessment and determining the comparative value for the data measured in the field. Sites that have been identified from secondary data will be confirmed with the local community or related government bodies such as Agency for Regional Development (BAPPEDA), Investment Coordinating Board (BKPM), and Industry and Trade Office (Disperindag). This will provide input on detailed information about the location, research and work that has been done before, and data of other sites that have renewable energy potential. For example, information about tidal flows can be asked to local fishers and port officials, and information about wind potential can be requested from airport officials and residents. Weather data from the nearest weather station, airport, or port is also beneficial as a comparison of primary data. Primary data was obtained by conducting resource measurements at specific sites determined from secondary data using specific equipment.

Solar resource assessment was carried out by measuring solar irradiance in several locations. Measurements were made from 8:00 am until around 4:00 pm with two minutes interval using Lutron SPM which works in a spectrum of 400 to 1100 nm. This tool is equipped with a real-time recorder that saves data into the SD memory card and can be downloaded to the Excel format. The sensor was installed in an open location that is not blocked by shadows during the measurement time with a zero-tilt angle. The measurement was conducted at Benteng port, fishers market port (TPI), Lapangan Pemuda, Shafira hotel roof top, Tabalongan Strait, and Padang Strait.

Wind data was obtained by measuring the wind velocity and direction at two locations, namely at Puncak Tanadoang on the east side of Benteng City and at Bontomatene village, located at the north of Selayar Island where two 100 kW wind turbines were built in 2008. The selection of this location is based on data from RADMAPP and interviews with residents regarding windy areas on Selayar Island. Measurements are carried out using Flow Watch JDC FL-03, which is a portable flow / flow measuring instrument, designed for simple and accurate measurements for air and water flow. This tool does not have a self-recording feature, so manual recording must be done at the specified time interval. Measurements were made by installing a sensor on a 3-metre-long bamboo pole placed in an open place so that trees or buildings do not block the wind. Data measurements were carried out for 5 hours at the first location and three hours at the second location at 10 minutes intervals.

Measuring the potential of ocean currents was done by measuring the speed and direction of ocean current using Flow Watch JDC FL-03, a portable flow or flow measuring instrument, designed for simple and accurate measurements for wind and water flow. The measurement was conducted at two locations: west side of the Selayar Island, between Padang village and Pasigusung Island and in the Strait between Polasi and Tambolongan Islands. Based on the data obtained from RADMAPP, there were 4 locations identified as having strong currents. Unfortunately, these four locations were difficult to reach with available vessels because of their site too far from the shoreline and bad weather conditions. Considering safety factors, two other areas were selected based on interviews conducted with local fishers. Tidal observations were carried out at Benteng port by using Valeport TideMaster, which was installed for 12 days from 17-29 June 2019 with data intervals every 10 minutes. The Tide Master is a small, cost-effective Water Level Recorder, specially designed for applications where the user requires an accurate record of water height with selfrecording features. The installation location was chosen by considering the safety, and water conditions where tidal levels are not disturbed by natural conditions and structures at the observation location.



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Figure 1. Tide gauge installation at Benteng port

Site characterisation is carried out by collecting supporting data such as grid connections, existing power generation, service development plans from PLN, the amount of electricity demand, and peak loads and observations in the field. This supporting data is obtained by conducting visits to the PLN office, BAPPEDA, BKPM, on-site observation, and interviews with the community and the village leader.

3. RESULTS

3.1 Solar

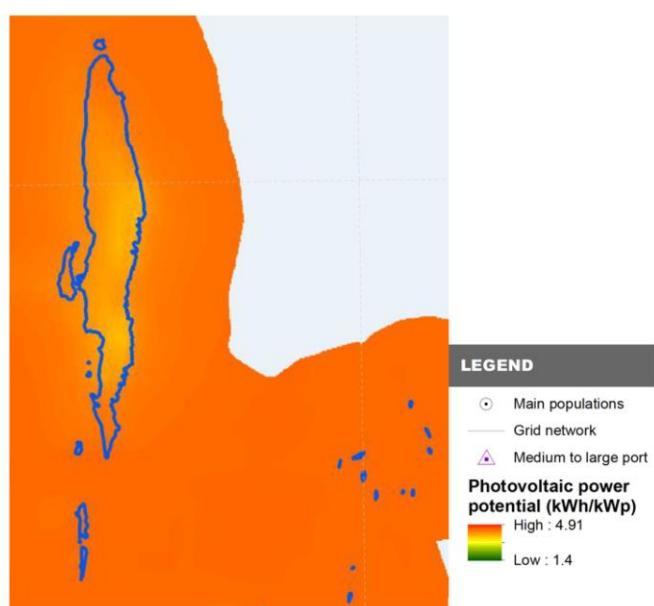
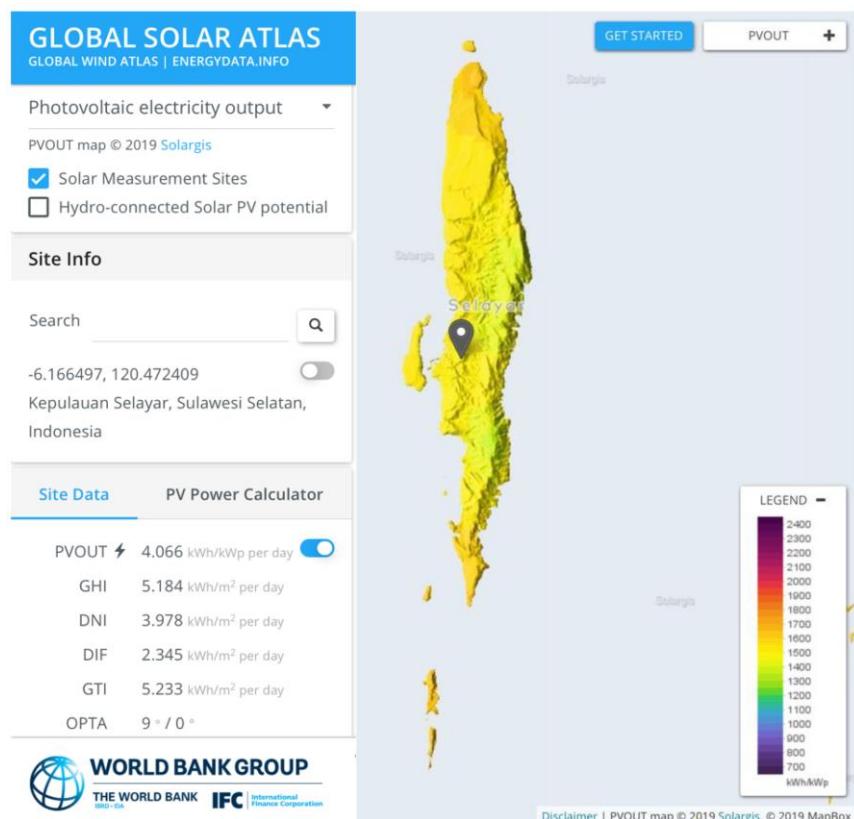


Figure 2. Secondary data from Global Solar Atlas (top) and RADMAPP (bottom)



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As can be seen in Figure 2, the south and north site of the Selayar Island has higher solar potential, as well as at Tambolongan and Polasi Island. In those areas, the terrain is relatively flat and is in the lowlands, compared to the central eastern side of the Island which is hilly and highland. The hilly area is relatively cloudier and in the afternoon the sun is blocked by a hill on the east side of the Island which causes low sun exposure.

Table 1. Daily irradiation measured at sites

| Date | Daily average (W/m ²) | Maximum (W/m ²) | Location |
|----------------|--------------------------------------|--------------------------------|-----------------------|
| 18-Jun | 835.7 | 1,024 | Benteng Port |
| 19-Jun | 599.8 | 1,169 | Fish market port |
| 20-Jun | 822.5 | 937.7 | Lapangan Pemuda |
| 21-Jun | 752.3 | 1,090 | Appatana |
| 22-Jun | 799.6 | 897.9 | Tabalongan Strait |
| 24-Jun | 748.4 | 941.3 | Padang Strait |
| 26-Jun | 747.5 | 941.3 | Syafira Hotel Rooftop |
| 27-Jun | 692.1 | 1,075 | Syafira Hotel Rooftop |
| 28-Jun | 687.3 | 1,034 | Syafira Hotel Rooftop |
| Average | 742,8 | | |

The measurement data shows that the daily average solar irradiance is taken over 9 days during the field work is 742.8 W/m² with maximum irradiation of 1,169 W/m². The solar irradiance at the location is sufficient to produce significant electricity for the community so is proven by a number of PLTS development across the Islands.

There are centralised PLTS built on Tambolongan, Polasi, and Rajuni Islands constructed by the central government, in this case, represented by ESDM, in the last three years. The three PLTS were granted to the regional government and operated by local management organizations at the PLTS location. Based on field observations, it was found that the three PLTSs were not functioning correctly because there was some damage and some equipment malfunctions. Replacement is required for some of the batteries and inverter. Most of the solar photovoltaic panels, the most valuable component in the system, are still in fine condition yet these non-functional systems have become partially stranded assets.



Figure 3. Existing solar farm on Tambolongan Island

PLTS on Tambolongan Island which was built in 2015 with a power capacity of 75 kWp, currently only functions 40% of its initial size. PLTS in Tambolongan was originally able to supply 323 houses for 12 hours with an average power of 260 Watts. Currently; it can only supply electricity from 18:00 to 21:00. The Tambolongan PLTS is located at the hillside with 10 degrees slope facing west. The solar panel is fix mounted facing the west with 10-degree tilt angle which poorly absorbs the solar incident before 12:00 pm since the back of one panel faces toward the direction of the sun. Currently, in Tambongan Island, PLTS only supplies electricity from 18:00 to 21:00, this is due to damage of several batteries, lack of technical knowledge from operators, and weak daily maintenance systems.



Figure 4. Solar powered streetlight at Benteng port

There is a 100 kWp PLTS which was built in 2017 on Polasi Island. The PLTS currently does not supply electricity at all and was only operated for less than a year since it was inaugurated. In the PLTS in Polasi Island, the solar panels were installed properly facing to the north with 10-degree tilt angle. The



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substation is neat and tidy, and all equipment was running properly. However, it has not supplied electricity to the community for the last 6 months.

On the Islands of Rajuni and Latondu, there was also some damage to plant which caused the PLTS to only function around 30% of initial capacity. The damage was caused by the age of the equipment, and the lack of technical and managerial knowledge from the operator about the details of the operation and maintenance of the equipment. Based on the interviews we conducted, at the beginning of the PLTS construction, two weeks of training were held for operators who were local people. Comprehensive technical and managerial knowledge is essential for the operator, especially if the operator does not have any background and experience regarding the PLTS system. For handling problems in the PLTS, operators are dependent on contractors in Jakarta, both for replacing damaged equipment and analysing problems. In each PLTS, there is a monitoring system that provides all the data and status of the PLTS system in real time. The monitoring system can be accessed remotely from anywhere as long as the system is connected to the internet. However, there is no reliable internet network on these small Islands so the conditions and problems that occur in PLTS cannot be resolved by remote access.

To get electricity from the PLTS, the community is required to pay Rp 12,500 per month. The price does not cover the plan to replace the battery periodically for the long term. Including the budget for replacing PLTS batteries in a customer's monthly contribution is very important because the battery is a critical component of an off-grid solar power plant and the price is very high. Also, of all solar power components, the battery is one component that has low durability and the shortest operating period / lifecycle.

It is difficult to acquire land around the villages in Selayar because almost all the area is a coconut plantation, which is the main commodity on the Island. Another option is to install floating solar along the coast, which has extensive shallow water. However, installing floating solar along the coastline has a very high risk due to the west and east wind seasons.

3.1.1 Recommendations

- Considering the local community conditions, centralised PLTS is the best option compared to individual rooftop PV panel as the maintenance and operation of centralised PLTS is more manageable. Comprehensive capacity building and training should be provided for the PLTS operators. PLN should be involved in the operation and maintenance of the community based off-grid PLTS and available on the Island. Central government are encouraged to facilitate the cooperation between regional government, PLN, and Renewable Energy Agency (EBTKE) to evaluate and establish a more sustainable business model for the PLTS.
- Approximately 5 - 10% of the project budget should be allocated to capacity building and community involvement.
- In the monthly payment scheme, the cost for the regular maintenance and component and battery replacement should be included.
- The financial status of the PLTS should be reported regularly by conducting a meeting between the operator and the community to prevent any dispute.
- The monthly bill should be reviewed annually to cover increasing maintenance and operational costs.
- Mini current breakers (MCB) installed individually for each customer need to be inspected regularly on a six-monthly basis to prevent any over usage of the electricity.
- Grid-connected rooftop solar PV can be promoted for government buildings and public facilities at the main Island of Selayar to reduce the diesel fuel consumption of the diesel power plant during the day.

- Considering the limited land availability in Selayar, development of floating solar PV is possible at a bay located at the west side of Pandang village and at the small lake in Tambalongan Island with more than 300,000 m² wide equivalent with 1-2 MWp solar farm.
- As the increasing awareness in sustainable tourism, especially for western tourists, ecotourism campaigns also can be used to urge resort owners to install rooftop solar PV at their tourism facilities such as hotels and villas as part of their marketing and branding programme.



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3.2 Wind

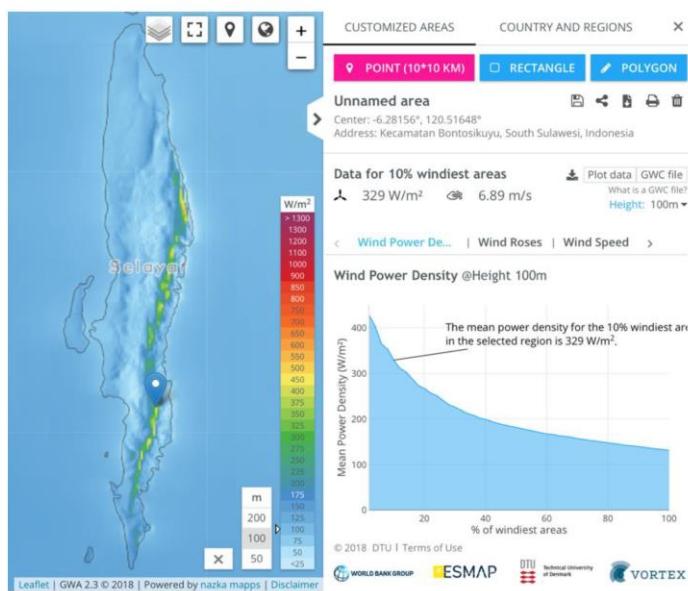
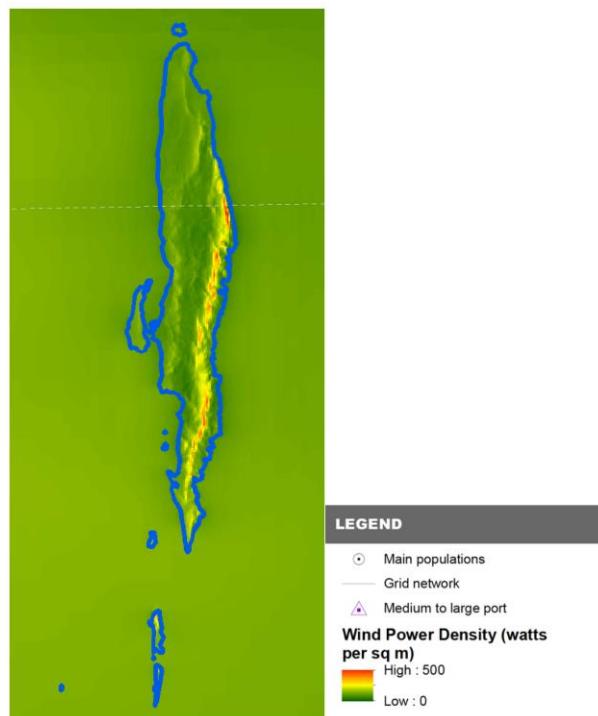


Figure 5. Secondary data from Global Wind Atlas (top) and RADMapp (bottom)

From the map of wind potential obtained through RADMapp and the global wind atlas, it is known that the location of strong winds is along the east side of Selayar which is a plateau area. The results of the interviews conducted with the local community showed that the north and south sides of Selayar Island were locations that had excellent wind potential. Both sites were directly exposed to the west wind and east wind; each of which occurred from December to March and June to September retrospectively. During the monsoons in the east and west, the strength of the winds causes disruption to the local fishing industry, with many unable to go out to sea, there is also considerable marine litter deposited along the shoreline consisting mainly of wood and plastics.

Construction of the wind farm development on the western side of Selayar Island, which is a highland and hilly region, needs to take the narrow and winding road conditions into account. The road conditions will greatly affect the size of blades that can be transported, and the capacity of the heavy equipment needed for the construction of the project.

The data in Table 2 shows that at the measurement locations, the average wind speed is 7.45 m/s for offshore and 2.97 m/s for onshore and the maximum current speed was 8.6 m/s. Based on visual inspection on the existing anemometer during the measurement, the wind blows constantly at a height of 20 m from the ground.

Table 2. Wind velocity measured at sites

| Type | Location | Average (m/s) | Average (m/s) |
|-----------------|-------------|---------------|------------------|
| Offshore | Tambolongan | 7.034 | Average Offshore |
| | Padang | 7.879 | |
| Onshore | Tanadoang | 3.042 | Average Onshore |
| | Tanadoang | 2.545 | |
| | Bontomatene | 3.346 | |

The wind speed at both locations might be higher and more stable if the sensor has located at a minimum of 10 m from the ground. As observed during measurement, there were a lot of trees which were taller than the measurement pole. The wind speed was reduced significantly as the wind was blocked by the trees.

Puncak Tanadoang is located in hilly terrain with a winding road unsuitable for a long vehicle to transport cranes and rotor blades for wind farm construction.

At the other location where the existing broken wind turbines are located, the terrain is relatively flat and open and exposed to westerly and easterly wind. This location is more suitable for wind farm development based on the topography and geographical location. In addition, this location is located more than 5 km from a residential area. Thus, the noise impact from the wind farm operation will not disturb the surrounding community. At both locations, grid connection is available.

In 2008, two wind turbines were constructed in Bontomatene village at the northern part of Selayar Island, each with a capacity of 85 kW, which is connected to the grid. Currently, the wind turbines are no longer operating and have severe damage on the rotor and substations. Some crucial components of the PLTB have been stolen and vandalised. The two wind turbines are less than 100 m from each other, and there is a wind measuring station consisting of three anemometers which are arranged vertically 10 metres apart from each other. The existence of PLTB on Selayar Island shows that previously there has been a study of wind potential on Selayar Island.



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3.2.1 Recommendations

Considering the transportation access and the topographical condition of the site, Bontomatene is more suitable for the development of PLTB. The existing wind turbines can be refurbished and reactivated for a pilot project and research purposes. The availability of land in that location is very large, most of which is only covered with shrubs and is not arable and productive land. It is the recommendation that the local PLN office be involved in the development project as well as in the operation and maintenance of the wind turbines. The development of a windfarm could significantly reduce diesel consumption for electricity generation.

The wind station at the location can be refurbished and redeployed to obtain long-term measurement. The data from the logger can be downloaded to get the actual long-term measurement, which would need to be recorded for more than a year. If recorded data from the wind station can be downloaded, it will be very useful and can be used to calculate the electricity potential that can be generated in one year and make the optimum turbine design. The results of the calculation of power output can be used to create a business scenario and feasibility study. If the anemometer in the wind station has been damaged, it needs to be replaced without changing the existing tower.

Existing grid connection at this location is a big advantage for wind farm development. The previous feasibility study report of the existing wind turbine would be beneficial for reference in future research and should be available at the ESDM office.

3.3 Tidal

The tidal measurement was not conducted at the strongest current locations listed on RADMAPP due to accessibility issues. Measurements were taken at the next best location, based on local knowledge.

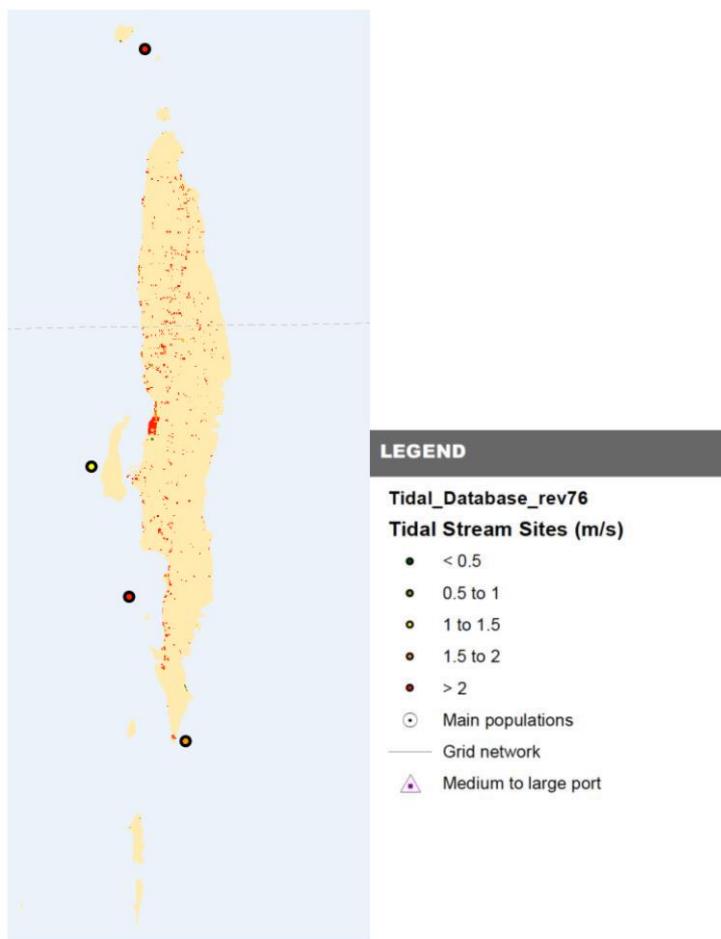


Figure 6. Identified tidal stream sites from RADMAPP

The data in Table 3 shows that at the measurement locations, the average current speed is 0.42 m/s for Tambolongan and 0.14 m/s for Padang. The maximum current speed was 0.7 m/s during ebb and flood tides at Tambolongan and 0.3 m/s for flood tides and 0.1 for ebb tides at Padang. Both measurements were conducted in a narrowing strait located less than 5 miles from the shore. The tide is a mix semidiurnal (occurring twice a day with a range of low and high tides) with maximum range of 1.64 m.

Table 3. Tide velocity measured at sites

| Site | Average velocity (m/s) | Maximum Flood (m/s) | Maximum Ebb (m/s) |
|-------------|------------------------|---------------------|-------------------|
| Tambolongan | 0,42 | 0,7 | 0,7 |
| Padang | 0,14 | 0,3 | 0,1 |



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Based on the measurement data, the tidal energy in both locations is lower than the minimum current speed for the deployment of tidal energy conversion technology. Considering the high up-front investment required for the development of tidal energy conversion, tidal energy conversion is unlikely to be economically viable.

3.3.1 Recommendations

Further research can be conducted at a different site identified by RADMAPP using appropriate vessel during the transition time from westerly season to easterly season or vice versa. The measurement should be carried out using ocean current meter equipped with a compass and self-recording unit.

3.4 Biomass and Waste

During field observations on Selayar Island, Tambolongan, and Polasi, it was discovered that coconut production from smallholder plantations was huge. The community sell copra and coconut shell to collectors in Benteng or send directly to Makassar (mainland). The by-products of copra production are coconut shells and coconut fibre. Coconut shells can be sold for raw materials to produce coconut charcoal; however, coconut husks are largely discarded as they have no economic value and only a small portion is used for cooking.

Discarded coconut husk is stacked and partly burned with leaves and domestic waste. Exploring the potential use of discarded husks as a biomass fuel that can be used to generate much needed electricity for the community and will be beneficial in reducing waste.

Tambolongan and Polasi Island communities already have electricity networks and other supporting infrastructure such as the MCB network of street lighting that are built together with the construction of solar power plants. Thus, the development of a biomass power plant (PLTBm) can be retrofitted with existing PLTS to form a hybrid system.

Table 4 Biomass potential at Selayar (Selayar, 2018)

| | Production (Ton/year) | Husk (Ton/year) | Ton/day |
|----------------|--------------------------|--------------------|---------|
| Coconut | 21,170 | 7,409.5 | 20.3 |
| Corn | 8,264 | 1,488 | 4.07 |
| Rice | 36,839 | 36,839 | 100.92 |
| Total | 45,736 | | 125.3 |

Table 4 shows that the production of agricultural waste biomass in Kabupaten Kepulauan Selayar reaches 125.3 Tonnes/day. Assuming that PLTBm has overall efficiency of 25%, and average biomass calorific value is 15 MJ/kg. The plant produces 131 MWh electricity per day with capacity of 5.4 MW. There is additional biomass fuel from ocean waste, which means the total daily electricity production will be significantly greater.

With the combination of PLTBm and PLTS, the community of Tambolongan and Polasi Islands are expected to be able to meet their electricity needs independently by using the resources on the Islands without having to depend on external energy supply. In addition to the supply of raw materials, if the quantity of coconut fibre is still below the minimum supply of PLTBm, it can be combined with coconut shells, coconut leaves, and wood waste which can be easily found along the Island's coastline. Coconut shells can be obtained at a price from residents because it has economic value for sale or used to make charcoal. This supports the waste to wealth concept which may be of interest to government agencies in Selayar.

Coconut fibre and other raw materials can be processed first by drying and chopping into small pieces to increase the efficiency of PLTBm. The fuel conditioning for biomass requires additional costs that must be calculated further, so that it can be seen whether the added value of efficiency can exceed the processing costs.



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Currently, coconut fibre can be obtained free from the public, but if the demand for coconut fibre increases along with the construction of PLTBm, it is possible that the price of coconut fibre will increase. In addition, the costs of collecting and transporting biomass PLT raw materials must also be considered, given the presence of coconut fibre throughout the Island, and the limited mode of transportation on the Island. The development of PLTBm is expected to boost the economic activity in the Islands and promote inclusive growth which provides additional income for the community.

The potential for wood waste from the sea and from coconut plantations is large, especially in the west and east monsoons. This can be used as additional raw material for biomass PLT, but further quantification is needed to determine the exact amount.



Figure 7. Log and wood waste from the ocean

Waste is a severe problem experienced by residents of the Islands. The waste on the Island is not only produced by the daily activities of the community, but also from the marine waste that is brought by the tides. This is due to the absence of waste processing facilities and a large amount of waste deposited from the sea. This marine waste is especially prevalent in the west and east seasons, where high winds carry tens of tons of marine litter from outside the Islands. No precautionary measures have been identified to date to prevent the deposition of waste from the sea. To overcome this waste problem, one possible solution is the use of waste-powered electricity generation technology. With this technology, solid waste that cannot be recycled can be burned in an incinerator to produce heat which can be used to produce steam to drive turbines and generators for electricity production. This waste power plant can also be combined with biomass power plants. However, modifications would be required, to adjust the heat output produced, given the fact that calorific value of waste and biomass is different.



Figure 8. Ocean waste consisting of plastic and timber

The heat produced from the plant can be used for electricity generation, drying the coconut and fish, processing copra to produce coconut oil, and processing coconut water. The excess of electricity produced can be used for ice production for the cold storage requirements of the fishery industry which can significantly boost the productivity as the ice production is far below the demand and only produced on the main Island of Selayar.

With low-carbon technology currently available, biomass PLT and waste can produce low carbon emissions which are less harmful to the environment. This is different from normal waste combustion that produces potentially high carbon emissions with no electricity generation to benefit communities. The ash produced from the Biomass power plant and waste-to-energy plant can be sent to landfill, used as fertilizer, or used as building blocks depending on the number of chemicals and compounds it may contain.

At present, communities of Tambolongan and Polasi Island manage waste by burning it releasing significant air pollution.

3.4.1 Recommendations

The Biomass powerplant and waste-to-energy plant can be hybridized with existing PLTSs to produce more reliable power supply for the Islands, minimising the use of batteries to provide non-intermittent power supply as well as reducing diesel consumption for PLTD.

Further feasibility, including quantitative research, should be conducted to assess the daily and seasonal availability of biomass feedstock and waste production and to investigate the economic, social, and environmental aspect of the plant. The incineration ash and air pollution of the biomass power plant and waste-to-energy plant require careful treatment to prevent negative environmental impact.



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It is recommended that an ABCG (Academic, Business, Community, Government) model of partnership initiates a pilot project. The regional government are encouraged to actively promote the biomass energy potential to investors and seek support from central government (in this case represented by EBTKE) to take this forward.

4. CONCLUSION

There are significant renewable energy resource options across the core, transition and buffer zones of the Biosphere Reserve and the wider Selayar region. The preliminary resources assessment measurements can be shared with Academic, Business, Community and Government partners.

An unexpected finding during the course of this fieldwork was the potential for biomass production with the region and the waste to energy opportunities similarly, the development of ecotourism links well to this study.

The recommendations in this report encourage further investigation, potential pilot programmes and action based on the fieldwork undertaken in the region and across a number of diverse locations.



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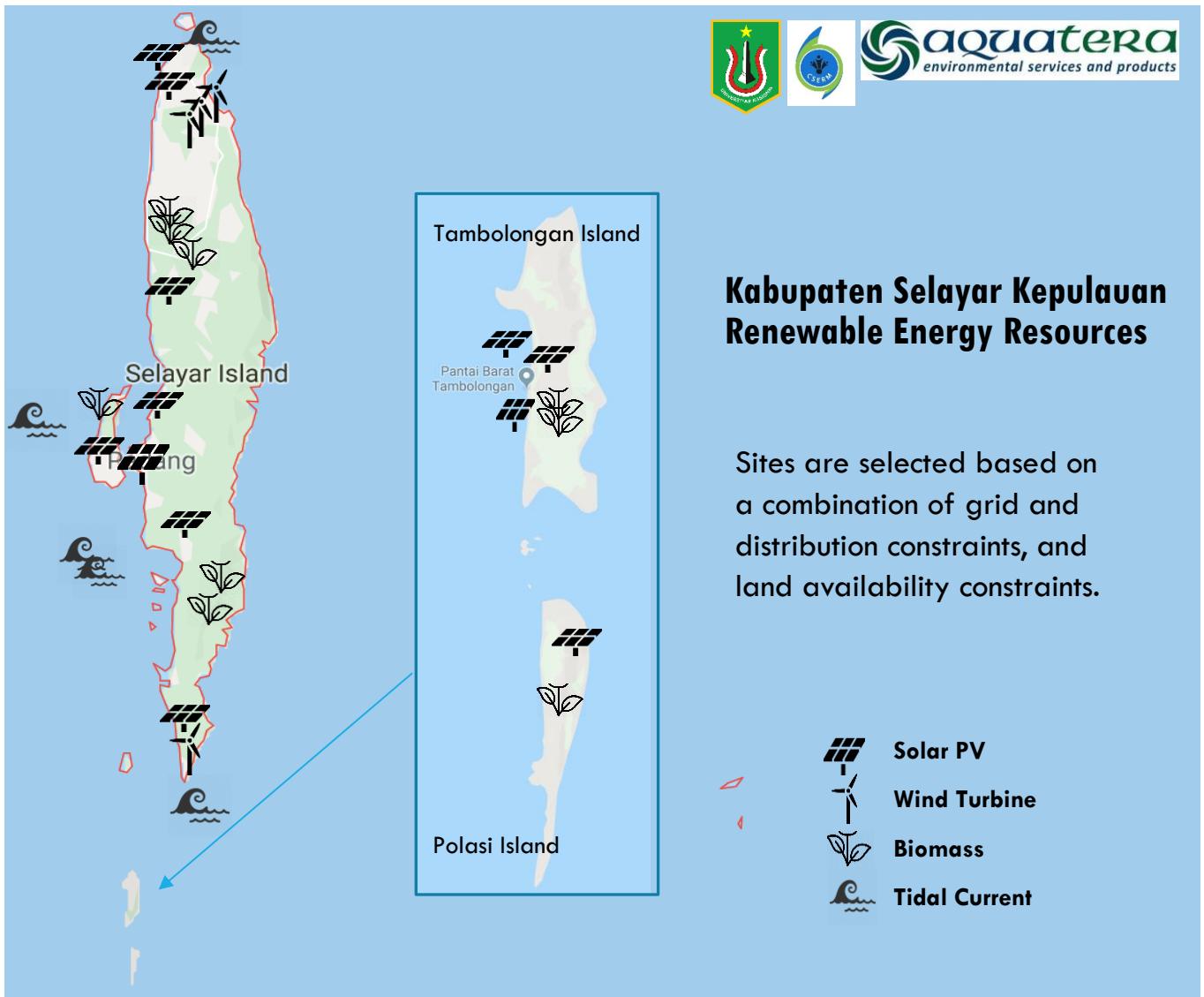


5. REFERENCES

- ESDM. (2017). *Besaran Biaya Pokok Penyedia Pembangkitan PT PLN*. Retrieved from Energi dan Sumber Daya Mineral Republik Indonesia: <https://www.esdm.go.id/assets/media/content/content-bpp-pembangkitan-listrik-2017.pdf>
- Firman. (2018, May 21). Kominfo Kabupaten Kepulauan Selayar. Retrieved from Kepulauanselayarkab.go.id: <https://kepulauanselayarkab.go.id/berita-dapat-mesin-pembangkit-3-mw-bupati-konfirmasi-kembali-rencana-pembangunan-pembangkit-listrik-10-mw.html>
- HL. (2012, May 28). Susahnya Listrik di Kabupaten Kepulauan Selayar. Retrieved from Rakyat Sulsel: <https://www.rakyatsulsel.co/2012/05/28/susahnya-listrik-di-kabupaten-kepulauan-selayar/>
- Selayar, B. P. (2018). *Statistik Daerah Kabupaten Kepulauan Selayar 2018*. Selayar: BPS Kabupaten Kepulauan Selayar.

6. APPENDICES

6.1 Visual representation of site locations



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6.2 Daily solar irradiance

Appendix Table 1, Daily solar irradiance 18 June 2019

| | | | | |
|------------|----------------|------------------|------------|------------|
| Site Name: | Benteng Port | Date: | 18/06/2019 | Equipment: |
| Location: | | | | |
| | Lat: -6.498358 | Long: 120.483450 | | |
| Elevation: | + 1 meter | Time Zone: | WITA | |

| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark |
|----------|--------------------------------------|----------------------------|-------------------------------------|--------|
| 10:10:25 | 848.7 | | 95.48 | |
| 10:10:55 | 867.3 | | 97.57 | |
| 10:11:25 | 859.7 | | 96.72 | |
| 10:11:55 | 859.1 | | 96.65 | |
| 10:12:25 | 860.7 | | 96.83 | |
| 10:12:55 | 862.1 | | 96.99 | |
| 10:13:25 | 859.3 | | 96.67 | |
| 10:13:55 | 853.9 | | 96.06 | |
| 10:14:25 | 854 | | 96.08 | |
| 10:14:55 | 857.2 | | 96.44 | |
| 10:15:25 | 858.9 | | 96.63 | |
| 10:15:55 | 863.2 | | 97.11 | |
| 10:16:25 | 871 | | 97.99 | |
| 10:16:55 | 873 | | 98.21 | |
| 10:17:25 | 878 | | 98.78 | |
| 10:17:55 | 899.2 | | 101.16 | |
| 10:18:25 | 637.9 | | 71.76 | |
| 10:18:55 | 904.6 | | 101.77 | |
| 10:19:25 | 880.3 | | 99.03 | |
| 10:19:55 | 883.5 | | 99.39 | |
| 10:20:25 | 203.5 | | 22.89 | |
| 10:20:55 | 884.1 | | 99.46 | |
| 10:21:25 | 879.1 | | 98.90 | |
| 10:21:55 | 871.9 | | 98.09 | |
| 10:22:25 | 870 | | 97.88 | |
| 10:22:55 | 877.2 | | 98.69 | |
| 10:23:25 | 887.5 | | 99.84 | |
| 10:23:55 | 900.1 | | 101.26 | |
| 10:24:25 | 927.2 | | 104.31 | |
| 10:24:55 | 898.7 | | 101.10 | |
| 10:25:25 | 888.2 | | 99.92 | |

| | | | | |
|----------|-------|--|--------|--|
| 10:25:55 | 893.2 | | 100.49 | |
| 10:26:25 | 895.2 | | 100.71 | |
| 10:26:55 | 893.8 | | 100.55 | |
| 10:27:25 | 895.2 | | 100.71 | |
| 10:27:55 | 894.9 | | 100.68 | |
| 10:28:25 | 895.5 | | 100.74 | |
| 10:28:55 | 897.6 | | 100.98 | |
| 10:29:25 | 893.2 | | 100.49 | |
| 10:29:55 | 894.1 | | 100.59 | |
| 10:30:25 | 891.6 | | 100.31 | |
| 10:30:55 | 892.2 | | 100.37 | |
| 10:31:25 | 892.4 | | 100.40 | |
| 10:31:55 | 898.5 | | 101.08 | |
| 10:32:25 | 906.9 | | 102.03 | |
| 10:32:55 | 913.9 | | 102.81 | |
| 10:33:25 | 931.6 | | 104.81 | |
| 10:33:55 | 954.6 | | 107.39 | |
| 10:34:25 | 158.3 | | 17.81 | |
| 10:34:55 | 148.5 | | 16.71 | |
| 10:35:25 | 175.9 | | 19.79 | |
| 10:35:55 | 859.7 | | 96.72 | |
| 10:36:25 | 250.6 | | 28.19 | |
| 10:36:55 | 923.2 | | 103.86 | |
| 10:37:25 | 949.1 | | 106.77 | |
| 10:37:55 | 467.1 | | 52.55 | |
| 10:38:25 | 1024 | | 115.20 | |
| 10:38:55 | 1004 | | 112.95 | |
| 10:39:25 | 1004 | | 112.95 | |
| 10:39:55 | 1011 | | 113.74 | |
| 10:40:25 | 1004 | | 112.95 | |
| 10:40:55 | 1000 | | 112.50 | |
| 10:41:25 | 993.2 | | 111.74 | |
| 10:41:55 | 986.1 | | 110.94 | |
| 10:42:25 | 978.2 | | 110.05 | |
| 10:42:55 | 987.2 | | 111.06 | |
| 10:43:25 | 216.9 | | 24.40 | |
| 10:43:55 | 357.7 | | 40.24 | |
| 10:44:25 | 963.5 | | 108.39 | |
| 10:44:55 | 963 | | 108.34 | |
| 10:45:25 | 953.5 | | 107.27 | |
| 10:45:55 | 936.4 | | 105.35 | |
| 10:46:25 | 924.5 | | 104.01 | |



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| | | | | |
|----------|-------|--|--------|--|
| 10:46:55 | 921.2 | | 103.64 | |
| 10:47:25 | 918.7 | | 103.35 | |
| 10:47:55 | 914.9 | | 102.93 | |
| 10:48:25 | 913.4 | | 102.76 | |
| 10:48:55 | 909.5 | | 102.32 | |
| 10:49:25 | 909 | | 102.26 | |
| 10:49:55 | 908.7 | | 102.23 | |
| 10:50:25 | 910.9 | | 102.48 | |
| 10:50:55 | 905.7 | | 101.89 | |
| 10:51:25 | 908 | | 102.15 | |
| 10:51:55 | 908.7 | | 102.23 | |
| 10:52:25 | 906.9 | | 102.03 | |
| 10:52:55 | 905 | | 101.81 | |
| 10:53:25 | 902.7 | | 101.55 | |
| 10:53:55 | 901.1 | | 101.37 | |
| 10:54:25 | 899.5 | | 101.19 | |
| 10:54:55 | 899.8 | | 101.23 | |
| 10:55:25 | 907.1 | | 102.05 | |
| 10:55:55 | 900.1 | | 101.26 | |
| 10:56:25 | 900.9 | | 101.35 | |
| 10:56:55 | 905.8 | | 101.90 | |
| 10:57:25 | 918.2 | | 103.30 | |
| 10:57:55 | 948.9 | | 106.75 | |
| 10:58:25 | 460.2 | | 51.77 | |
| 10:58:55 | 560.7 | | 63.08 | |
| 10:59:25 | 510.4 | | 57.42 | |
| 10:59:55 | 943.5 | | 106.14 | |
| 11:00:25 | 935.1 | | 105.20 | |
| 11:00:55 | 931.6 | | 104.81 | |
| 11:01:25 | 891.3 | | 100.27 | |
| 11:01:55 | 930.7 | | 104.70 | |
| 11:02:25 | 931.6 | | 104.81 | |
| 11:02:55 | 936.2 | | 105.32 | |
| 11:03:25 | 941.5 | | 105.92 | |
| 11:03:55 | 940 | | 105.75 | |
| 11:04:25 | 945.7 | | 106.39 | |
| 11:04:55 | 952.7 | | 107.18 | |
| 11:05:25 | 955.6 | | 107.51 | |
| 11:05:55 | 959 | | 107.89 | |
| 11:06:25 | 959.7 | | 107.97 | |
| 11:06:55 | 957.6 | | 107.73 | |
| 11:07:25 | 955.9 | | 107.54 | |

| | | | | |
|----------|-------|--|--------|--|
| 11:07:55 | 967.3 | | 108.82 | |
| 11:08:25 | 957.3 | | 107.70 | |
| 11:08:55 | 951 | | 106.99 | |
| 11:09:25 | 956.2 | | 107.57 | |
| 11:09:55 | 956.8 | | 107.64 | |
| 11:10:25 | 954.3 | | 107.36 | |
| 11:10:55 | 952.1 | | 107.11 | |
| 11:11:25 | 950.3 | | 106.91 | |
| 11:11:55 | 951.4 | | 107.03 | |
| 11:12:25 | 951.3 | | 107.02 | |
| 11:12:55 | 947.3 | | 106.57 | |
| 11:13:25 | 920.1 | | 103.51 | |
| 11:13:55 | 945.3 | | 106.35 | |
| 11:14:25 | 930.8 | | 104.72 | |
| 11:14:55 | 928.9 | | 104.50 | |
| 11:15:25 | 925.6 | | 104.13 | |
| 11:15:55 | 919 | | 103.39 | |
| 11:16:25 | 915.8 | | 103.03 | |
| 11:16:55 | 914.5 | | 102.88 | |
| 11:17:25 | 912.8 | | 102.69 | |
| 11:17:55 | 910.7 | | 102.45 | |
| 11:18:25 | 910.9 | | 102.48 | |
| 11:18:55 | 911.8 | | 102.58 | |
| 11:19:25 | 914.2 | | 102.85 | |
| 11:19:55 | 924.8 | | 104.04 | |
| 11:20:25 | 944.1 | | 106.21 | |
| 11:20:55 | 976.3 | | 109.83 | |
| 11:21:25 | 578.2 | | 65.05 | |
| 11:21:55 | 620.9 | | 69.85 | |
| 11:22:25 | 944.5 | | 106.26 | |
| 11:22:55 | 975.7 | | 109.77 | |
| 11:23:25 | 951.6 | | 107.06 | |
| 11:23:55 | 934.2 | | 105.10 | |
| 11:24:25 | 920.2 | | 103.52 | |
| 11:24:55 | 916.1 | | 103.06 | |
| 11:25:25 | 912.2 | | 102.62 | |
| 11:25:55 | 913.1 | | 102.72 | |
| 11:26:25 | 910.6 | | 102.44 | |
| 11:26:55 | 908.5 | | 102.21 | |
| 11:27:25 | 907.2 | | 102.06 | |
| 11:27:55 | 907.9 | | 102.14 | |
| 11:28:25 | 907.7 | | 102.12 | |



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| | | | | |
|----------|-------|--|--------|--|
| 11:28:55 | 909.3 | | 102.30 | |
| 11:29:25 | 913 | | 102.71 | |
| 11:29:55 | 912.6 | | 102.67 | |
| 11:30:25 | 913.3 | | 102.75 | |
| 11:30:55 | 910.3 | | 102.41 | |
| 11:31:25 | 911 | | 102.49 | |
| 11:31:55 | 911.2 | | 102.51 | |
| 11:32:25 | 911.4 | | 102.53 | |
| 11:32:55 | 911.7 | | 102.57 | |
| 11:33:25 | 913 | | 102.71 | |
| 11:33:55 | 913.6 | | 102.78 | |
| 11:34:25 | 912.5 | | 102.66 | |
| 11:34:55 | 910.7 | | 102.45 | |
| 11:35:25 | 910.1 | | 102.39 | |
| 11:35:55 | 909.1 | | 102.27 | |
| 11:36:25 | 908.8 | | 102.24 | |
| 11:36:55 | 908.7 | | 102.23 | |
| 11:37:25 | 911.2 | | 102.51 | |
| 11:37:55 | 911.2 | | 102.51 | |
| 11:38:25 | 914.1 | | 102.84 | |
| 11:38:55 | 912.2 | | 102.62 | |
| 11:39:25 | 912.2 | | 102.62 | |
| 11:39:55 | 913.7 | | 102.79 | |
| 11:40:25 | 913 | | 102.71 | |
| 11:40:55 | 911.8 | | 102.58 | |
| 11:41:25 | 911.2 | | 102.51 | |
| 11:41:55 | 908.7 | | 102.23 | |
| 11:42:25 | 911.2 | | 102.51 | |
| 11:42:55 | 911.5 | | 102.54 | |
| 11:43:25 | 909 | | 102.26 | |
| 11:43:55 | 910.6 | | 102.44 | |
| 11:44:25 | 909.1 | | 102.27 | |
| 11:44:55 | 908.8 | | 102.24 | |
| 11:45:25 | 907.7 | | 102.12 | |
| 11:45:55 | 910.3 | | 102.41 | |
| 11:46:25 | 911.5 | | 102.54 | |
| 11:46:55 | 912.2 | | 102.62 | |
| 11:47:25 | 909.8 | | 102.35 | |
| 11:47:55 | 911.8 | | 102.58 | |
| 11:48:25 | 914.2 | | 102.85 | |
| 11:48:55 | 913.1 | | 102.72 | |
| 11:49:25 | 914.2 | | 102.85 | |

| | | | | |
|----------|-------|--|--------|--|
| 11:49:55 | 913.9 | | 102.81 | |
| 11:50:25 | 914.1 | | 102.84 | |
| 11:50:55 | 921.2 | | 103.64 | |
| 11:51:25 | 920.1 | | 103.51 | |
| 11:51:55 | 920.7 | | 103.58 | |
| 11:52:25 | 913.1 | | 102.72 | |
| 11:52:55 | 913.4 | | 102.76 | |
| 11:53:25 | 909.5 | | 102.32 | |
| 11:53:55 | 913.1 | | 102.72 | |
| 11:54:25 | 914.1 | | 102.84 | |
| 11:54:55 | 912.8 | | 102.69 | |
| 11:55:25 | 911 | | 102.49 | |
| 11:55:55 | 909.8 | | 102.35 | |
| 11:56:25 | 909.8 | | 102.35 | |
| 11:56:55 | 910.4 | | 102.42 | |
| 11:57:25 | 911 | | 102.49 | |
| 11:57:55 | 911 | | 102.49 | |
| 11:58:25 | 910.6 | | 102.44 | |
| 11:58:55 | 910.6 | | 102.44 | |
| 11:59:25 | 909.1 | | 102.27 | |
| 11:59:55 | 910.6 | | 102.44 | |
| 12:00:25 | 908.5 | | 102.21 | |
| 12:00:55 | 910.7 | | 102.45 | |
| 12:01:25 | 910.4 | | 102.42 | |
| 12:01:55 | 911.4 | | 102.53 | |
| 12:02:25 | 910.7 | | 102.45 | |
| 12:02:55 | 910.1 | | 102.39 | |
| 12:03:25 | 912.5 | | 102.66 | |
| 12:03:55 | 913.1 | | 102.72 | |
| 12:04:25 | 911.8 | | 102.58 | |
| 12:04:55 | 909 | | 102.26 | |
| 12:05:25 | 910.7 | | 102.45 | |
| 12:05:55 | 909.5 | | 102.32 | |
| 12:06:25 | 906.5 | | 101.98 | |
| 12:06:55 | 908.2 | | 102.17 | |
| 12:07:25 | 911.2 | | 102.51 | |
| 12:07:55 | 909.1 | | 102.27 | |
| 12:08:25 | 910.4 | | 102.42 | |
| 12:08:55 | 910.9 | | 102.48 | |
| 12:09:25 | 909.8 | | 102.35 | |
| 12:09:55 | 908.5 | | 102.21 | |
| 12:10:25 | 907.4 | | 102.08 | |



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| | | | | |
|----------|-------|--|--------|--|
| 12:10:55 | 907.9 | | 102.14 | |
| 12:11:25 | 909 | | 102.26 | |
| 12:11:55 | 910.1 | | 102.39 | |
| 12:12:25 | 909.9 | | 102.36 | |
| 12:12:55 | 910.4 | | 102.42 | |
| 12:13:25 | 910.4 | | 102.42 | |
| 12:13:55 | 910.6 | | 102.44 | |
| 12:14:25 | 912.8 | | 102.69 | |
| 12:14:55 | 915.8 | | 103.03 | |
| 12:15:25 | 915.2 | | 102.96 | |
| 12:15:55 | 913.6 | | 102.78 | |
| 12:16:25 | 914.1 | | 102.84 | |
| 12:16:55 | 916.8 | | 103.14 | |
| 12:17:25 | 915 | | 102.94 | |
| 12:17:55 | 913.4 | | 102.76 | |
| 12:18:25 | 910.9 | | 102.48 | |
| 12:18:55 | 914.4 | | 102.87 | |
| 12:19:25 | 913.3 | | 102.75 | |
| 12:19:55 | 915.8 | | 103.03 | |
| 12:20:25 | 915.2 | | 102.96 | |
| 12:20:55 | 914.7 | | 102.90 | |
| 12:21:25 | 913 | | 102.71 | |
| 12:21:55 | 913.1 | | 102.72 | |
| 12:22:25 | 912.8 | | 102.69 | |
| 12:22:55 | 909.9 | | 102.36 | |
| 12:23:25 | 907.6 | | 102.11 | |
| 12:23:55 | 909.3 | | 102.30 | |
| 12:24:25 | 909.8 | | 102.35 | |
| 12:24:55 | 910.3 | | 102.41 | |
| 12:25:25 | 909.1 | | 102.27 | |
| 12:25:55 | 908.2 | | 102.17 | |
| 12:26:25 | 909.6 | | 102.33 | |
| 12:26:55 | 908.2 | | 102.17 | |
| 12:27:25 | 904.1 | | 101.71 | |
| 12:27:55 | 903.1 | | 101.60 | |
| 12:28:25 | 905.3 | | 101.85 | |
| 12:28:55 | 905 | | 101.81 | |
| 12:29:25 | 903.4 | | 101.63 | |
| 12:29:55 | 904.4 | | 101.75 | |
| 12:30:25 | 900.6 | | 101.32 | |
| 12:30:55 | 900.8 | | 101.34 | |
| 12:31:25 | 901.1 | | 101.37 | |

| | | | | |
|----------|-------|--|--------|--|
| 12:31:55 | 902.2 | | 101.50 | |
| 12:32:25 | 899.6 | | 101.21 | |
| 12:32:55 | 898.9 | | 101.13 | |
| 12:33:25 | 898.1 | | 101.04 | |
| 12:33:55 | 896.6 | | 100.87 | |
| 12:34:25 | 897.1 | | 100.92 | |
| 12:34:55 | 709.6 | | 79.83 | |
| 12:35:25 | 820.6 | | 92.32 | |
| 12:35:55 | 873.7 | | 98.29 | |
| 12:36:25 | 841.1 | | 94.62 | |
| 12:36:55 | 852.1 | | 95.86 | |
| 12:37:25 | 917.1 | | 103.17 | |
| 12:37:55 | 917.4 | | 103.21 | |
| 12:38:25 | 880.8 | | 99.09 | |
| 12:38:55 | 982.8 | | 110.57 | |
| 12:39:25 | 950 | | 106.88 | |
| 12:39:55 | 922.5 | | 103.78 | |
| 12:40:25 | 899.8 | | 101.23 | |
| 12:40:55 | 912 | | 102.60 | |
| 12:41:25 | 913.7 | | 102.79 | |
| 12:41:55 | 925.5 | | 104.12 | |
| 12:42:25 | 380 | | 42.75 | |
| 12:42:55 | 447.2 | | 50.31 | |
| 12:43:25 | 388.3 | | 43.68 | |
| 12:43:55 | 371.6 | | 41.81 | |
| 12:44:25 | 464.8 | | 52.29 | |
| 12:44:55 | 541.6 | | 60.93 | |
| 12:45:25 | 736.4 | | 82.85 | |
| 12:45:55 | 880.3 | | 99.03 | |
| 12:46:25 | 929.9 | | 104.61 | |
| 12:46:55 | 939.4 | | 105.68 | |
| 12:47:25 | 939.1 | | 105.65 | |
| 12:47:55 | 938 | | 105.53 | |
| 12:48:25 | 940.8 | | 105.84 | |
| 12:48:55 | 938.6 | | 105.59 | |
| 12:49:25 | 941 | | 105.86 | |
| 12:49:55 | 940.7 | | 105.83 | |
| 12:50:25 | 940.7 | | 105.83 | |
| 12:50:55 | 941.8 | | 105.95 | |
| 12:51:25 | 938.3 | | 105.56 | |
| 12:51:55 | 938.9 | | 105.63 | |
| 12:52:25 | 940.3 | | 105.78 | |



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| | | | | |
|----------|-------|--|--------|--|
| 12:52:55 | 937.5 | | 105.47 | |
| 12:53:25 | 935.3 | | 105.22 | |
| 12:53:55 | 937.5 | | 105.47 | |
| 12:54:25 | 942.9 | | 106.08 | |
| 12:54:55 | 939.6 | | 105.71 | |
| 12:55:25 | 935.3 | | 105.22 | |
| 12:55:55 | 936.9 | | 105.40 | |
| 12:56:25 | 935.8 | | 105.28 | |
| 12:56:55 | 937.8 | | 105.50 | |
| 12:57:25 | 938.6 | | 105.59 | |
| 12:57:55 | 935.3 | | 105.22 | |
| 12:58:25 | 937.3 | | 105.45 | |
| 12:58:55 | 936.9 | | 105.40 | |
| 12:59:25 | 935.4 | | 105.23 | |
| 12:59:55 | 938.3 | | 105.56 | |
| 13:00:25 | 931.3 | | 104.77 | |
| 13:00:55 | 931.8 | | 104.83 | |
| 13:01:25 | 933.1 | | 104.97 | |
| 13:01:55 | 938.6 | | 105.59 | |
| 13:02:25 | 932.7 | | 104.93 | |
| 13:02:55 | 928.5 | | 104.46 | |
| 13:03:25 | 927.8 | | 104.38 | |
| 13:03:55 | 924.2 | | 103.97 | |
| 13:04:25 | 930.2 | | 104.65 | |
| 13:04:55 | 929.6 | | 104.58 | |
| 13:05:25 | 928.6 | | 104.47 | |
| 13:05:55 | 927 | | 104.29 | |
| 13:06:25 | 927 | | 104.29 | |
| 13:06:55 | 923.2 | | 103.86 | |
| 13:07:25 | 926.9 | | 104.28 | |
| 13:07:55 | 928.3 | | 104.43 | |
| 13:08:25 | 922 | | 103.73 | |
| 13:08:55 | 923.7 | | 103.92 | |
| 13:09:25 | 925.5 | | 104.12 | |
| 13:09:55 | 922.3 | | 103.76 | |
| 13:10:25 | 922.6 | | 103.79 | |
| 13:10:55 | 923.4 | | 103.88 | |
| 13:11:25 | 925.6 | | 104.13 | |
| 13:11:55 | 923.2 | | 103.86 | |
| 13:12:25 | 924.7 | | 104.03 | |
| 13:12:55 | 922.3 | | 103.76 | |
| 13:13:25 | 919 | | 103.39 | |

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|----------|-------|--|--------|--|
| 13:13:55 | 919.8 | | 103.48 | |
| 13:14:25 | 913 | | 102.71 | |
| 13:14:55 | 911 | | 102.49 | |
| 13:15:25 | 913 | | 102.71 | |
| 13:15:55 | 912 | | 102.60 | |
| 13:16:25 | 916.4 | | 103.10 | |
| 13:16:55 | 912.6 | | 102.67 | |
| 13:17:25 | 915.3 | | 102.97 | |
| 13:17:55 | 917.2 | | 103.19 | |
| 13:18:25 | 913 | | 102.71 | |
| 13:18:55 | 914.5 | | 102.88 | |
| 13:19:25 | 913.6 | | 102.78 | |
| 13:19:55 | 911.4 | | 102.53 | |
| 13:20:25 | 907.2 | | 102.06 | |
| 13:20:55 | 905.2 | | 101.84 | |
| 13:21:25 | 909.5 | | 102.32 | |
| 13:21:55 | 906 | | 101.93 | |
| 13:22:25 | 903.1 | | 101.60 | |
| 13:22:55 | 907.4 | | 102.08 | |
| 13:23:25 | 904.6 | | 101.77 | |
| 13:23:55 | 903.6 | | 101.66 | |
| 13:24:25 | 902.7 | | 101.55 | |
| 13:24:55 | 907.1 | | 102.05 | |
| 13:25:25 | 899 | | 101.14 | |
| 13:25:55 | 899.3 | | 101.17 | |
| 13:26:25 | 889.8 | | 100.10 | |
| 13:26:55 | 889.8 | | 100.10 | |
| 13:27:25 | 891.3 | | 100.27 | |
| 13:27:55 | 890.5 | | 100.18 | |
| 13:28:25 | 886.2 | | 99.70 | |
| 13:28:55 | 888.7 | | 99.98 | |
| 13:29:25 | 886.5 | | 99.73 | |
| 13:29:55 | 885.4 | | 99.61 | |
| 13:30:25 | 884.6 | | 99.52 | |
| 13:30:55 | 885.2 | | 99.59 | |
| 13:31:25 | 884 | | 99.45 | |
| 13:31:55 | 880.2 | | 99.02 | |
| 13:32:25 | 874.8 | | 98.42 | |
| 13:32:55 | 880.8 | | 99.09 | |
| 13:33:25 | 876.1 | | 98.56 | |
| 13:33:55 | 874.5 | | 98.38 | |
| 13:34:25 | 876.2 | | 98.57 | |



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|----------|-------|--|-------|--|
| 13:34:55 | 874.1 | | 98.34 | |
| 13:35:25 | 875.7 | | 98.52 | |
| 13:35:55 | 875.7 | | 98.52 | |
| 13:36:25 | 870 | | 97.88 | |
| 13:36:55 | 874.9 | | 98.43 | |
| 13:37:25 | 871.3 | | 98.02 | |
| 13:37:55 | 868.8 | | 97.74 | |
| 13:38:25 | 867.2 | | 97.56 | |
| 13:38:55 | 863.5 | | 97.14 | |
| 13:39:25 | 865 | | 97.31 | |
| 13:39:55 | 860.5 | | 96.81 | |
| 13:40:25 | 859.1 | | 96.65 | |
| 13:40:55 | 859.3 | | 96.67 | |
| 13:41:25 | 860.4 | | 96.80 | |
| 13:41:55 | 860.8 | | 96.84 | |
| 13:42:25 | 856.7 | | 96.38 | |
| 13:42:55 | 854.4 | | 96.12 | |
| 13:43:25 | 853.1 | | 95.97 | |
| 13:43:55 | 852 | | 95.85 | |
| 13:44:25 | 853.2 | | 95.99 | |
| 13:44:55 | 851.3 | | 95.77 | |
| 13:45:25 | 850.2 | | 95.65 | |
| 13:45:55 | 849.4 | | 95.56 | |
| 13:46:25 | 848 | | 95.40 | |
| 13:46:55 | 843.4 | | 94.88 | |
| 13:47:25 | 744.8 | | 83.79 | |
| 13:47:55 | 695 | | 78.19 | |
| 13:48:25 | 630.4 | | 70.92 | |
| 13:48:55 | 724.6 | | 81.52 | |
| 13:49:25 | 763.3 | | 85.87 | |
| 13:49:55 | 731.6 | | 82.31 | |
| 13:50:25 | 729.4 | | 82.06 | |
| 13:50:55 | 726.2 | | 81.70 | |
| 13:51:25 | 726.2 | | 81.70 | |
| 13:51:55 | 726.4 | | 81.72 | |
| 13:52:25 | 724.6 | | 81.52 | |
| 13:52:55 | 716.6 | | 80.62 | |
| 13:53:25 | 738.3 | | 83.06 | |
| 13:53:55 | 735.6 | | 82.76 | |
| 13:54:25 | 43.3 | | 4.87 | |
| 13:54:55 | 718.6 | | 80.84 | |
| 13:55:25 | 684.7 | | 77.03 | |

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|----------|-------|--|-------|--|
| 13:55:55 | 700.3 | | 78.78 | |
| 13:56:25 | 697.1 | | 78.42 | |
| 13:56:55 | 694.7 | | 78.15 | |
| 13:57:25 | 697.7 | | 78.49 | |
| 13:57:55 | 741.3 | | 83.40 | |
| 13:58:25 | 762.5 | | 85.78 | |
| 13:58:55 | 762.3 | | 85.76 | |
| 13:59:25 | 762.8 | | 85.82 | |
| 13:59:55 | 760.9 | | 85.60 | |
| 14:00:25 | 757.3 | | 85.20 | |
| 14:00:55 | 757.3 | | 85.20 | |
| 14:01:25 | 756.3 | | 85.08 | |
| 14:01:55 | 755.1 | | 84.95 | |
| 14:02:25 | 753.5 | | 84.77 | |
| 14:02:55 | 753.6 | | 84.78 | |
| 14:03:25 | 755.2 | | 84.96 | |
| 14:03:55 | 756.3 | | 85.08 | |
| 14:04:25 | 751.9 | | 84.59 | |
| 14:04:55 | 749.5 | | 84.32 | |
| 14:05:25 | 750.1 | | 84.39 | |
| 14:05:55 | 747.3 | | 84.07 | |
| 14:06:25 | 747.3 | | 84.07 | |
| 14:06:55 | 742.2 | | 83.50 | |
| 14:07:25 | 743.3 | | 83.62 | |
| 14:07:55 | 738.3 | | 83.06 | |
| 14:08:25 | 742.4 | | 83.52 | |
| 14:08:55 | 738.4 | | 83.07 | |
| 14:09:25 | 736.8 | | 82.89 | |
| 14:09:55 | 736.8 | | 82.89 | |
| 14:10:25 | 734.9 | | 82.68 | |
| 14:10:55 | 735.6 | | 82.76 | |
| 14:11:25 | 729.9 | | 82.11 | |
| 14:11:55 | 728.9 | | 82.00 | |
| 14:12:25 | 727.5 | | 81.84 | |
| 14:12:55 | 723.2 | | 81.36 | |
| 14:13:25 | 727.8 | | 81.88 | |
| 14:13:55 | 725.6 | | 81.63 | |
| 14:14:25 | 722.7 | | 81.30 | |
| 14:14:55 | 718.3 | | 80.81 | |
| 14:15:25 | 721.2 | | 81.14 | |
| 14:15:55 | 719.9 | | 80.99 | |
| 14:16:25 | 717.7 | | 80.74 | |



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|----------|-------|--|-------|--|
| 14:16:55 | 716.3 | | 80.58 | |
| 14:17:25 | 718.2 | | 80.80 | |
| 14:17:55 | 713.7 | | 80.29 | |
| 14:18:25 | 712 | | 80.10 | |
| 14:18:55 | 712.9 | | 80.20 | |
| 14:19:25 | 710.2 | | 79.90 | |
| 14:19:55 | 711.2 | | 80.01 | |
| 14:20:25 | 708.7 | | 79.73 | |
| 14:20:55 | 705.5 | | 79.37 | |
| 14:21:25 | 705.2 | | 79.34 | |
| 14:21:55 | 702.2 | | 79.00 | |
| 14:22:25 | 700.9 | | 78.85 | |
| 14:22:55 | 698.5 | | 78.58 | |
| 14:23:25 | 703.7 | | 79.17 | |
| 14:23:55 | 700.4 | | 78.80 | |
| 14:24:25 | 697.3 | | 78.45 | |
| 14:24:55 | 695 | | 78.19 | |
| 14:25:25 | 693.1 | | 77.97 | |
| 14:25:55 | 692.7 | | 77.93 | |
| 14:26:25 | 690.1 | | 77.64 | |
| 14:26:55 | 689.5 | | 77.57 | |
| 14:27:25 | 688.4 | | 77.45 | |
| 14:27:55 | 684.3 | | 76.98 | |
| 14:28:25 | 684.7 | | 77.03 | |
| 14:28:55 | 687 | | 77.29 | |
| 14:29:25 | 683.3 | | 76.87 | |
| 14:29:55 | 680 | | 76.50 | |
| 14:30:25 | 679.5 | | 76.44 | |
| 14:30:55 | 680.5 | | 76.56 | |
| 14:31:25 | 677.9 | | 76.26 | |
| 14:31:55 | 671.9 | | 75.59 | |
| 14:32:25 | 673.3 | | 75.75 | |
| 14:32:55 | 671.4 | | 75.53 | |
| 14:33:25 | 671.6 | | 75.56 | |
| 14:33:55 | 670.5 | | 75.43 | |
| 14:34:25 | 669.1 | | 75.27 | |
| 14:34:55 | 670 | | 75.38 | |
| 14:35:25 | 666.8 | | 75.02 | |
| 14:35:55 | 663.4 | | 74.63 | |
| 14:36:25 | 663.7 | | 74.67 | |
| 14:36:55 | 662.7 | | 74.55 | |
| 14:37:25 | 662.1 | | 74.49 | |

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|----------|-------|--|-------|--|
| 14:37:55 | 657.8 | | 74.00 | |
| 14:38:25 | 655.6 | | 73.76 | |
| 14:38:55 | 656.5 | | 73.86 | |
| 14:39:25 | 653.9 | | 73.56 | |
| 14:39:55 | 651.6 | | 73.31 | |
| 14:40:25 | 648.6 | | 72.97 | |
| 14:40:55 | 646.1 | | 72.69 | |
| 14:41:25 | 647.5 | | 72.84 | |
| 14:41:55 | 646.6 | | 72.74 | |
| 14:42:25 | 642.6 | | 72.29 | |
| 14:42:55 | 644.2 | | 72.47 | |
| 14:43:25 | 642.8 | | 72.32 | |
| 14:43:55 | 642.3 | | 72.26 | |
| 14:44:25 | 640.9 | | 72.10 | |
| 14:44:55 | 636.4 | | 71.60 | |
| 14:45:25 | 632.5 | | 71.16 | |
| 14:45:55 | 629.9 | | 70.86 | |
| 14:46:25 | 631.1 | | 71.00 | |
| 14:46:55 | 632.2 | | 71.12 | |
| 14:47:25 | 629.2 | | 70.79 | |
| 14:47:55 | 628.7 | | 70.73 | |
| 14:48:25 | 628.7 | | 70.73 | |
| 14:48:55 | 626.5 | | 70.48 | |
| 14:49:25 | 623.9 | | 70.19 | |
| 14:49:55 | 621.7 | | 69.94 | |
| 14:50:25 | 620.3 | | 69.78 | |
| 14:50:55 | 616.8 | | 69.39 | |
| 14:51:25 | 613 | | 68.96 | |
| 14:51:55 | 613.2 | | 68.99 | |
| 14:52:25 | 610.3 | | 68.66 | |
| 14:52:55 | 610.3 | | 68.66 | |
| 14:53:25 | 607.1 | | 68.30 | |
| 14:53:55 | 611.1 | | 68.75 | |
| 14:54:25 | 610 | | 68.63 | |
| 14:54:55 | 606.2 | | 68.20 | |
| 14:55:25 | 606.3 | | 68.21 | |
| 14:55:55 | 607 | | 68.29 | |
| 14:56:25 | 602.2 | | 67.75 | |
| 14:56:55 | 601.3 | | 67.65 | |
| 14:57:25 | 601.1 | | 67.62 | |
| 14:57:55 | 598.4 | | 67.32 | |
| 14:58:25 | 598.4 | | 67.32 | |



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|----------|--------------|--|--------------|--|
| 14:58:55 | 596.7 | | 67.13 | |
| 14:59:25 | 593 | | 66.71 | |
| 14:59:55 | 586.2 | | 65.95 | |
| Average | 835.7 | | 94.01 | |

Appendix Table 2, Daily solar irradiance 19 June 2019

| | | | | |
|------------|---------------------------------|------------|------------|------------|
| Site Name: | TPI Port | Date: | 19/06/2019 | Equipment: |
| Location: | Lat: -6.123729 Long: 120.456012 | | | |
| Elevation: | + 1 meter | Time Zone: | WITA | |

| Time | Solar irradiance (W/m2) | Air Temperature (degree C) | PV Power output (W/m2) | Remark |
|----------|-------------------------|----------------------------|------------------------|--------|
| 09:00:24 | 564.1 | | 63.46125 | |
| 09:00:54 | 568.3 | | 63.93375 | |
| 09:01:24 | 569.9 | | 64.11375 | |
| 09:01:54 | 569.6 | | 64.08 | |
| 09:02:24 | 572.5 | | 64.40625 | |
| 09:02:54 | 577.2 | | 64.935 | |
| 09:03:24 | 578 | | 65.025 | |
| 09:03:54 | 580.4 | | 65.295 | |
| 09:04:24 | 586.2 | | 65.9475 | |
| 09:04:54 | 585 | | 65.8125 | |
| 09:05:24 | 586.5 | | 65.98125 | |
| 09:05:54 | 588.8 | | 66.24 | |
| 09:06:24 | 587.7 | | 66.11625 | |
| 09:06:54 | 588 | | 66.15 | |
| 09:07:24 | 587.8 | | 66.1275 | |
| 09:07:54 | 585.3 | | 65.84625 | |
| 09:08:24 | 591.5 | | 66.54375 | |
| 09:08:54 | 591.3 | | 66.52125 | |
| 09:09:24 | 592.1 | | 66.61125 | |
| 09:09:54 | 590.8 | | 66.465 | |
| 09:10:24 | 596.8 | | 67.14 | |
| 09:10:54 | 597.3 | | 67.19625 | |
| 09:11:24 | 600.2 | | 67.5225 | |
| 09:11:54 | 598.4 | | 67.32 | |
| 09:12:24 | 600 | | 67.5 | |
| 09:12:54 | 600.6 | | 67.5675 | |
| 09:13:24 | 600.5 | | 67.55625 | |
| 09:13:54 | 598.4 | | 67.32 | |
| 09:14:24 | 599.5 | | 67.44375 | |
| 09:14:54 | 601.9 | | 67.71375 | |
| 09:15:24 | 598 | | 67.275 | |
| 09:15:54 | 598.6 | | 67.3425 | |



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|----------|-------|--|----------|--|
| 09:16:24 | 597 | | 67.1625 | |
| 09:16:54 | 601 | | 67.6125 | |
| 09:17:24 | 598.3 | | 67.30875 | |
| 09:17:54 | 604.3 | | 67.98375 | |
| 09:18:24 | 599.9 | | 67.48875 | |
| 09:18:54 | 610.3 | | 68.65875 | |
| 09:19:24 | 609.4 | | 68.5575 | |
| 09:19:54 | 612 | | 68.85 | |
| 09:20:24 | 611.7 | | 68.81625 | |
| 09:20:54 | 608.9 | | 68.50125 | |
| 09:21:24 | 613.3 | | 68.99625 | |
| 09:21:54 | 617.6 | | 69.48 | |
| 09:22:24 | 524.9 | | 59.05125 | |
| 09:22:54 | 482 | | 54.225 | |
| 09:23:24 | 595.7 | | 67.01625 | |
| 09:23:54 | 562 | | 63.225 | |
| 09:24:24 | 421.2 | | 47.385 | |
| 09:24:54 | 621.7 | | 69.94125 | |
| 09:25:24 | 618.7 | | 69.60375 | |
| 09:25:54 | 619.6 | | 69.705 | |
| 09:26:24 | 620.3 | | 69.78375 | |
| 09:26:54 | 619.3 | | 69.67125 | |
| 09:27:24 | 622.3 | | 70.00875 | |
| 09:27:54 | 624.9 | | 70.30125 | |
| 09:28:24 | 628.2 | | 70.6725 | |
| 09:28:54 | 628.4 | | 70.695 | |
| 09:29:24 | 628 | | 70.65 | |
| 09:29:54 | 603.2 | | 67.86 | |
| 09:30:24 | 641.5 | | 72.16875 | |
| 09:30:54 | 640.7 | | 72.07875 | |
| 09:31:24 | 644.2 | | 72.4725 | |
| 09:31:54 | 645.1 | | 72.57375 | |
| 09:32:24 | 648.6 | | 72.9675 | |
| 09:32:54 | 654.3 | | 73.60875 | |
| 09:33:24 | 663.5 | | 74.64375 | |
| 09:33:54 | 668.6 | | 75.2175 | |
| 09:34:24 | 658.4 | | 74.07 | |
| 09:34:54 | 658 | | 74.025 | |
| 09:35:24 | 657 | | 73.9125 | |
| 09:35:54 | 646.1 | | 72.68625 | |
| 09:36:24 | 660.5 | | 74.30625 | |
| 09:36:54 | 683 | | 76.8375 | |

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|----------|-------|--|----------|--|
| 09:37:24 | 637.2 | | 71.685 | |
| 09:37:54 | 646.1 | | 72.68625 | |
| 09:38:24 | 690.3 | | 77.65875 | |
| 09:38:54 | 640.1 | | 72.01125 | |
| 09:39:24 | 587.3 | | 66.07125 | |
| 09:39:54 | 630.1 | | 70.88625 | |
| 09:40:24 | 594.9 | | 66.92625 | |
| 09:40:54 | 621.2 | | 69.885 | |
| 09:41:24 | 488.5 | | 54.95625 | |
| 09:41:54 | 401.4 | | 45.1575 | |
| 09:42:24 | 590.7 | | 66.45375 | |
| 09:42:54 | 766.1 | | 86.18625 | |
| 09:43:24 | 664 | | 74.7 | |
| 09:43:54 | 633.6 | | 71.28 | |
| 09:44:24 | 610.9 | | 68.72625 | |
| 09:44:54 | 563.4 | | 63.3825 | |
| 09:45:24 | 536 | | 60.3 | |
| 09:45:54 | 458.6 | | 51.5925 | |
| 09:46:24 | 784.2 | | 88.2225 | |
| 09:46:54 | 728.4 | | 81.945 | |
| 09:47:24 | 734 | | 82.575 | |
| 09:47:54 | 747.6 | | 84.105 | |
| 09:48:24 | 791 | | 88.9875 | |
| 09:48:54 | 869.1 | | 97.77375 | |
| 09:49:24 | 875.1 | | 98.44875 | |
| 09:49:54 | 749.4 | | 84.3075 | |
| 09:50:24 | 657.5 | | 73.96875 | |
| 09:50:54 | 492.5 | | 55.40625 | |
| 09:51:24 | 400.8 | | 45.09 | |
| 09:51:54 | 324.9 | | 36.55125 | |
| 09:52:24 | 231.8 | | 26.0775 | |
| 09:52:54 | 200.8 | | 22.59 | |
| 09:53:24 | 183.3 | | 20.62125 | |
| 09:53:54 | 183.2 | | 20.61 | |
| 09:54:24 | 186.2 | | 20.9475 | |
| 09:54:54 | 191.4 | | 21.5325 | |
| 09:55:24 | 207.3 | | 23.32125 | |
| 09:55:54 | 217.4 | | 24.4575 | |
| 09:56:24 | 227 | | 25.5375 | |
| 09:56:54 | 248.9 | | 28.00125 | |
| 09:57:24 | 282.6 | | 31.7925 | |
| 09:57:54 | 267.4 | | 30.0825 | |



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|----------|-------|--|----------|--|
| 09:58:24 | 255.7 | | 28.76625 | |
| 09:58:54 | 261.6 | | 29.43 | |
| 09:59:24 | 263.2 | | 29.61 | |
| 09:59:54 | 261.1 | | 29.37375 | |
| 10:00:24 | 252.1 | | 28.36125 | |
| 10:00:54 | 243.5 | | 27.39375 | |
| 10:01:24 | 236.2 | | 26.5725 | |
| 10:01:54 | 231.6 | | 26.055 | |
| 10:02:24 | 224.8 | | 25.29 | |
| 10:02:54 | 221.5 | | 24.91875 | |
| 10:03:24 | 219.4 | | 24.6825 | |
| 10:03:54 | 219.9 | | 24.73875 | |
| 10:04:24 | 221.3 | | 24.89625 | |
| 10:04:54 | 223.7 | | 25.16625 | |
| 10:05:24 | 227.4 | | 25.5825 | |
| 10:05:54 | 233.4 | | 26.2575 | |
| 10:06:24 | 241.5 | | 27.16875 | |
| 10:06:54 | 251 | | 28.2375 | |
| 10:07:24 | 258.7 | | 29.10375 | |
| 10:07:54 | 265.8 | | 29.9025 | |
| 10:08:24 | 275.5 | | 30.99375 | |
| 10:08:54 | 287.7 | | 32.36625 | |
| 10:09:24 | 302 | | 33.975 | |
| 10:09:54 | 317.3 | | 35.69625 | |
| 10:10:24 | 340.6 | | 38.3175 | |
| 10:10:54 | 370.4 | | 41.67 | |
| 10:11:24 | 354.1 | | 39.83625 | |
| 10:11:54 | 368 | | 41.4 | |
| 10:12:24 | 403.3 | | 45.37125 | |
| 10:12:54 | 436.3 | | 49.08375 | |
| 10:13:24 | 438.2 | | 49.2975 | |
| 10:13:54 | 505 | | 56.8125 | |
| 10:14:24 | 436.7 | | 49.12875 | |
| 10:14:54 | 428.7 | | 48.22875 | |
| 10:15:24 | 434.2 | | 48.8475 | |
| 10:15:54 | 430.6 | | 48.4425 | |
| 10:16:24 | 495.6 | | 55.755 | |
| 10:16:54 | 477.4 | | 53.7075 | |
| 10:17:24 | 456.7 | | 51.37875 | |
| 10:17:54 | 396 | | 44.55 | |
| 10:18:24 | 382.3 | | 43.00875 | |
| 10:18:54 | 373.4 | | 42.0075 | |

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|----------|-------|--|----------|--|
| 10:19:24 | 369.3 | | 41.54625 | |
| 10:19:54 | 365.9 | | 41.16375 | |
| 10:20:24 | 365.6 | | 41.13 | |
| 10:20:54 | 368.6 | | 41.4675 | |
| 10:21:24 | 373.1 | | 41.97375 | |
| 10:21:54 | 379.4 | | 42.6825 | |
| 10:22:24 | 386.1 | | 43.43625 | |
| 10:22:54 | 396 | | 44.55 | |
| 10:23:24 | 405.8 | | 45.6525 | |
| 10:23:54 | 412.5 | | 46.40625 | |
| 10:24:24 | 423.4 | | 47.6325 | |
| 10:24:54 | 421.4 | | 47.4075 | |
| 10:25:24 | 423.6 | | 47.655 | |
| 10:25:54 | 419.8 | | 47.2275 | |
| 10:26:24 | 419.8 | | 47.2275 | |
| 10:26:54 | 417.6 | | 46.98 | |
| 10:27:24 | 410.3 | | 46.15875 | |
| 10:27:54 | 406 | | 45.675 | |
| 10:28:24 | 406 | | 45.675 | |
| 10:28:54 | 413.9 | | 46.56375 | |
| 10:29:24 | 427.5 | | 48.09375 | |
| 10:29:54 | 432.6 | | 48.6675 | |
| 10:30:24 | 441.8 | | 49.7025 | |
| 10:30:54 | 451.8 | | 50.8275 | |
| 10:31:24 | 457.3 | | 51.44625 | |
| 10:31:54 | 461.9 | | 51.96375 | |
| 10:32:24 | 472 | | 53.1 | |
| 10:32:54 | 475.7 | | 53.51625 | |
| 10:33:24 | 478.1 | | 53.78625 | |
| 10:33:54 | 477.6 | | 53.73 | |
| 10:34:24 | 480.8 | | 54.09 | |
| 10:34:54 | 484.9 | | 54.55125 | |
| 10:35:24 | 491.4 | | 55.2825 | |
| 10:35:54 | 476.3 | | 53.58375 | |
| 10:36:24 | 473.8 | | 53.3025 | |
| 10:36:54 | 469.4 | | 52.8075 | |
| 10:37:24 | 464.1 | | 52.21125 | |
| 10:37:54 | 461.9 | | 51.96375 | |
| 10:38:24 | 456.4 | | 51.345 | |
| 10:38:54 | 451.6 | | 50.805 | |
| 10:39:24 | 453.2 | | 50.985 | |
| 10:39:54 | 454.3 | | 51.10875 | |



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| 10:40:24 | 447.2 | | 50.31 | |
| 10:40:54 | 447 | | 50.2875 | |
| 10:41:24 | 448.3 | | 50.43375 | |
| 10:41:54 | 442.9 | | 49.82625 | |
| 10:42:24 | 433.9 | | 48.81375 | |
| 10:42:54 | 427.4 | | 48.0825 | |
| 10:43:24 | 403.6 | | 45.405 | |
| 10:43:54 | 385.4 | | 43.3575 | |
| 10:44:24 | 373.2 | | 41.985 | |
| 10:44:54 | 367 | | 41.2875 | |
| 10:45:24 | 375.1 | | 42.19875 | |
| 10:45:54 | 404.7 | | 45.52875 | |
| 10:46:24 | 456.1 | | 51.31125 | |
| 10:46:54 | 461.3 | | 51.89625 | |
| 10:47:24 | 480.6 | | 54.0675 | |
| 10:47:54 | 490.4 | | 55.17 | |
| 10:48:24 | 491.2 | | 55.26 | |
| 10:48:54 | 483.9 | | 54.43875 | |
| 10:49:24 | 480.1 | | 54.01125 | |
| 10:49:54 | 476.8 | | 53.64 | |
| 10:50:24 | 473.2 | | 53.235 | |
| 10:50:54 | 482.7 | | 54.30375 | |
| 10:51:24 | 502.1 | | 56.48625 | |
| 10:51:54 | 518.3 | | 58.30875 | |
| 10:52:24 | 537.1 | | 60.42375 | |
| 10:52:54 | 596.1 | | 67.06125 | |
| 10:53:24 | 577.2 | | 64.935 | |
| 10:53:54 | 572.9 | | 64.45125 | |
| 10:54:24 | 624.4 | | 70.245 | |
| 10:54:54 | 652 | | 73.35 | |
| 10:55:24 | 694.7 | | 78.15375 | |
| 10:55:54 | 568.2 | | 63.9225 | |
| 10:56:24 | 581.8 | | 65.4525 | |
| 10:56:54 | 620.3 | | 69.78375 | |
| 10:57:24 | 633 | | 71.2125 | |
| 10:57:54 | 600.8 | | 67.59 | |
| 10:58:24 | 564.7 | | 63.52875 | |
| 10:58:54 | 558.8 | | 62.865 | |
| 10:59:24 | 592.4 | | 66.645 | |
| 10:59:54 | 586.5 | | 65.98125 | |
| 11:00:24 | 585 | | 65.8125 | |
| 11:00:54 | 749.2 | | 84.285 | |

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| 11:01:24 | 636 | | 71.55 | |
| 11:01:54 | 612.5 | | 68.90625 | |
| 11:02:24 | 719.1 | | 80.89875 | |
| 11:02:54 | 862.9 | | 97.07625 | |
| 11:03:24 | 825.2 | | 92.835 | |
| 11:03:54 | 883.5 | | 99.39375 | |
| 11:04:24 | 1005 | | 113.0625 | |
| 11:04:54 | 724.5 | | 81.50625 | |
| 11:05:24 | 957 | | 107.6625 | |
| 11:05:54 | 784.4 | | 88.245 | |
| 11:06:24 | 764.7 | | 86.02875 | |
| 11:06:54 | 795.3 | | 89.47125 | |
| 11:07:24 | 1030 | | 115.875 | |
| 11:07:54 | 644.5 | | 72.50625 | |
| 11:08:24 | 628 | | 70.65 | |
| 11:08:54 | 1052 | | 118.35 | |
| 11:09:24 | 629.9 | | 70.86375 | |
| 11:09:54 | 555.2 | | 62.46 | |
| 11:10:24 | 534.3 | | 60.10875 | |
| 11:10:54 | 534.3 | | 60.10875 | |
| 11:11:24 | 496.3 | | 55.83375 | |
| 11:11:54 | 511.3 | | 57.52125 | |
| 11:12:24 | 504.7 | | 56.77875 | |
| 11:12:54 | 511.6 | | 57.555 | |
| 11:13:24 | 494.9 | | 55.67625 | |
| 11:13:54 | 475.7 | | 53.51625 | |
| 11:14:24 | 476 | | 53.55 | |
| 11:14:54 | 498.5 | | 56.08125 | |
| 11:15:24 | 544.6 | | 61.2675 | |
| 11:15:54 | 497.4 | | 55.9575 | |
| 11:16:24 | 496.8 | | 55.89 | |
| 11:16:54 | 537.8 | | 60.5025 | |
| 11:17:24 | 537.8 | | 60.5025 | |
| 11:17:54 | 485.7 | | 54.64125 | |
| 11:18:24 | 465.9 | | 52.41375 | |
| 11:18:54 | 461.6 | | 51.93 | |
| 11:19:24 | 467.3 | | 52.57125 | |
| 11:19:54 | 488.7 | | 54.97875 | |
| 11:20:24 | 537.9 | | 60.51375 | |
| 11:20:54 | 615.8 | | 69.2775 | |
| 11:21:24 | 915.2 | | 102.96 | |
| 11:21:54 | 596.7 | | 67.12875 | |



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| 11:22:24 | 548.9 | | 61.75125 | |
| 11:22:54 | 571.3 | | 64.27125 | |
| 11:23:24 | 652.9 | | 73.45125 | |
| 11:23:54 | 558.2 | | 62.7975 | |
| 11:24:24 | 536.5 | | 60.35625 | |
| 11:24:54 | 520.8 | | 58.59 | |
| 11:25:24 | 540.1 | | 60.76125 | |
| 11:25:54 | 621.1 | | 69.87375 | |
| 11:26:24 | 542.7 | | 61.05375 | |
| 11:26:54 | 556 | | 62.55 | |
| 11:27:24 | 1149 | | 129.2625 | |
| 11:27:54 | 676.3 | | 76.08375 | |
| 11:28:24 | 723.7 | | 81.41625 | |
| 11:28:54 | 974.4 | | 109.62 | |
| 11:29:24 | 678.2 | | 76.2975 | |
| 11:29:54 | 645.1 | | 72.57375 | |
| 11:30:24 | 687.7 | | 77.36625 | |
| 11:30:54 | 799.1 | | 89.89875 | |
| 11:31:24 | 913.1 | | 102.72375 | |
| 11:31:54 | 702.2 | | 78.9975 | |
| 11:32:24 | 966 | | 108.675 | |
| 11:32:54 | 855.8 | | 96.2775 | |
| 11:33:24 | 883.8 | | 99.4275 | |
| 11:33:54 | 588.3 | | 66.18375 | |
| 11:34:24 | 556.6 | | 62.6175 | |
| 11:34:54 | 607.3 | | 68.32125 | |
| 11:35:24 | 641.8 | | 72.2025 | |
| 11:35:54 | 1132 | | 127.35 | |
| 11:36:24 | 1148 | | 129.15 | |
| 11:36:54 | 1029 | | 115.7625 | |
| 11:37:24 | 1169 | | 131.5125 | |
| 11:37:54 | 548.5 | | 61.70625 | |
| 11:38:24 | 486 | | 54.675 | |
| 11:38:54 | 790.5 | | 88.93125 | |
| 11:39:24 | 967.1 | | 108.79875 | |
| 11:39:54 | 1148 | | 129.15 | |
| 11:40:24 | 851 | | 95.7375 | |
| 11:40:54 | 901.7 | | 101.44125 | |
| 11:41:24 | 967.6 | | 108.855 | |
| 11:41:54 | 988.5 | | 111.20625 | |
| 11:42:24 | 1040 | | 117 | |
| 11:42:54 | 711 | | 79.9875 | |

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|----------|-------|--|-----------|--|
| 11:43:24 | 861 | | 96.8625 | |
| 11:43:54 | 753.2 | | 84.735 | |
| 11:44:24 | 991.5 | | 111.54375 | |
| 11:44:54 | 1100 | | 123.75 | |
| 11:45:24 | 986.3 | | 110.95875 | |
| 11:45:54 | 625.8 | | 70.4025 | |
| 11:46:24 | 834.7 | | 93.90375 | |
| 11:46:54 | 981.4 | | 110.4075 | |
| 11:47:24 | 839.9 | | 94.48875 | |
| 11:47:54 | 983.9 | | 110.68875 | |
| 11:48:24 | 987.2 | | 111.06 | |
| 11:48:54 | 1006 | | 113.175 | |
| 11:49:24 | 875.1 | | 98.44875 | |
| 11:49:54 | 762.8 | | 85.815 | |
| 11:50:24 | 1032 | | 116.1 | |
| 11:50:54 | 1023 | | 115.0875 | |
| 11:51:24 | 980.7 | | 110.32875 | |
| 11:51:54 | 949.1 | | 106.77375 | |
| 11:52:24 | 1007 | | 113.2875 | |
| 11:52:54 | 948.6 | | 106.7175 | |
| 11:53:24 | 995.5 | | 111.99375 | |
| 11:53:54 | 992 | | 111.6 | |
| 11:54:24 | 987.5 | | 111.09375 | |
| 11:54:54 | 985.6 | | 110.88 | |
| 11:55:24 | 958.7 | | 107.85375 | |
| 11:55:54 | 970.8 | | 109.215 | |
| 11:56:24 | 964.1 | | 108.46125 | |
| 11:56:54 | 953.8 | | 107.3025 | |
| 11:57:24 | 950.6 | | 106.9425 | |
| 11:57:54 | 951.6 | | 107.055 | |
| 11:58:24 | 947.5 | | 106.59375 | |
| 11:58:54 | 955.7 | | 107.51625 | |
| 11:59:24 | 959.5 | | 107.94375 | |
| 11:59:54 | 917.2 | | 103.185 | |
| 12:00:24 | 925.1 | | 104.07375 | |
| 12:00:54 | 981 | | 110.3625 | |
| 12:01:24 | 876.1 | | 98.56125 | |
| 12:01:54 | 756 | | 85.05 | |
| 12:02:24 | 933.5 | | 105.01875 | |
| 12:02:54 | 969.5 | | 109.06875 | |
| 12:03:24 | 916.3 | | 103.08375 | |
| 12:03:54 | 785.8 | | 88.4025 | |



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|----------|-------|--|-----------|--|
| 12:04:24 | 1019 | | 114.6375 | |
| 12:04:54 | 832 | | 93.6 | |
| 12:05:24 | 884 | | 99.45 | |
| 12:05:54 | 1033 | | 116.2125 | |
| 12:06:24 | 1022 | | 114.975 | |
| 12:06:54 | 909.3 | | 102.29625 | |
| 12:07:24 | 883.2 | | 99.36 | |
| 12:07:54 | 801.3 | | 90.14625 | |
| 12:08:24 | 916.8 | | 103.14 | |
| 12:08:54 | 962.5 | | 108.28125 | |
| 12:09:24 | 947.6 | | 106.605 | |
| 12:09:54 | 944.5 | | 106.25625 | |
| 12:10:24 | 908.7 | | 102.22875 | |
| 12:10:54 | 934 | | 105.075 | |
| 12:11:24 | 917.7 | | 103.24125 | |
| 12:11:54 | 935.4 | | 105.2325 | |
| 12:12:24 | 925.8 | | 104.1525 | |
| 12:12:54 | 876.8 | | 98.64 | |
| 12:13:24 | 859.7 | | 96.71625 | |
| 12:13:54 | 955.9 | | 107.53875 | |
| 12:14:24 | 904.6 | | 101.7675 | |
| 12:14:54 | 808.4 | | 90.945 | |
| 12:15:24 | 860.4 | | 96.795 | |
| 12:15:54 | 930.1 | | 104.63625 | |
| 12:16:24 | 923.4 | | 103.8825 | |
| 12:16:54 | 926.7 | | 104.25375 | |
| 12:17:24 | 924.4 | | 103.995 | |
| 12:17:54 | 914.2 | | 102.8475 | |
| 12:18:24 | 915.6 | | 103.005 | |
| 12:18:54 | 914.4 | | 102.87 | |
| 12:19:24 | 918 | | 103.275 | |
| 12:19:54 | 915.3 | | 102.97125 | |
| 12:20:24 | 912.2 | | 102.6225 | |
| 12:20:54 | 910.7 | | 102.45375 | |
| 12:21:24 | 912.8 | | 102.69 | |
| 12:21:54 | 911.8 | | 102.5775 | |
| 12:22:24 | 921.5 | | 103.66875 | |
| 12:22:54 | 866.1 | | 97.43625 | |
| 12:23:24 | 871.3 | | 98.02125 | |
| 12:23:54 | 870.2 | | 97.8975 | |
| 12:24:24 | 886.3 | | 99.70875 | |
| 12:24:54 | 881 | | 99.1125 | |

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| 12:25:24 | 911.2 | | 102.51 | |
| 12:25:54 | 912.6 | | 102.6675 | |
| 12:26:24 | 908.5 | | 102.20625 | |
| 12:26:54 | 912.8 | | 102.69 | |
| 12:27:24 | 906.8 | | 102.015 | |
| 12:27:54 | 904.2 | | 101.7225 | |
| 12:28:24 | 905.5 | | 101.86875 | |
| 12:28:54 | 909.5 | | 102.31875 | |
| 12:29:24 | 912.5 | | 102.65625 | |
| 12:29:54 | 914.5 | | 102.88125 | |
| 12:30:24 | 915.3 | | 102.97125 | |
| 12:30:54 | 914.4 | | 102.87 | |
| 12:31:24 | 913.3 | | 102.74625 | |
| 12:31:54 | 913 | | 102.7125 | |
| 12:32:24 | 913.4 | | 102.7575 | |
| 12:32:54 | 915 | | 102.9375 | |
| 12:33:24 | 912.5 | | 102.65625 | |
| 12:33:54 | 913.4 | | 102.7575 | |
| 12:34:24 | 910.9 | | 102.47625 | |
| 12:34:54 | 911 | | 102.4875 | |
| 12:35:24 | 912.5 | | 102.65625 | |
| 12:35:54 | 902.7 | | 101.55375 | |
| 12:36:24 | 912 | | 102.6 | |
| 12:36:54 | 914.4 | | 102.87 | |
| 12:37:24 | 911.8 | | 102.5775 | |
| 12:37:54 | 910.4 | | 102.42 | |
| 12:38:24 | 917.9 | | 103.26375 | |
| 12:38:54 | 917.2 | | 103.185 | |
| 12:39:24 | 923.4 | | 103.8825 | |
| 12:39:54 | 931.6 | | 104.805 | |
| 12:40:24 | 931.6 | | 104.805 | |
| 12:40:54 | 941.9 | | 105.96375 | |
| 12:41:24 | 943.4 | | 106.1325 | |
| 12:41:54 | 946 | | 106.425 | |
| 12:42:24 | 956.5 | | 107.60625 | |
| 12:42:54 | 957.6 | | 107.73 | |
| 12:43:24 | 962.8 | | 108.315 | |
| 12:43:54 | 960.1 | | 108.01125 | |
| 12:44:24 | 992.5 | | 111.65625 | |
| 12:44:54 | 998.6 | | 112.3425 | |
| 12:45:24 | 1005 | | 113.0625 | |
| 12:45:54 | 1019 | | 114.6375 | |



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| 12:46:24 | 1006 | | 113.175 | |
| 12:46:54 | 990.1 | | 111.38625 | |
| 12:47:24 | 965.1 | | 108.57375 | |
| 12:47:54 | 945.7 | | 106.39125 | |
| 12:48:24 | 938 | | 105.525 | |
| 12:48:54 | 954.4 | | 107.37 | |
| 12:49:24 | 948.9 | | 106.75125 | |
| 12:49:54 | 920.7 | | 103.57875 | |
| 12:50:24 | 809.9 | | 91.11375 | |
| 12:50:54 | 737.6 | | 82.98 | |
| 12:51:24 | 695 | | 78.1875 | |
| 12:51:54 | 686.8 | | 77.265 | |
| 12:52:24 | 602.1 | | 67.73625 | |
| 12:52:54 | 584.2 | | 65.7225 | |
| 12:53:24 | 648.2 | | 72.9225 | |
| 12:53:54 | 699.3 | | 78.67125 | |
| 12:54:24 | 664.9 | | 74.80125 | |
| 12:54:54 | 695.3 | | 78.22125 | |
| 12:55:24 | 678.4 | | 76.32 | |
| 12:55:54 | 677 | | 76.1625 | |
| 12:56:24 | 742.9 | | 83.57625 | |
| 12:56:54 | 647.5 | | 72.84375 | |
| 12:57:24 | 637.2 | | 71.685 | |
| 12:57:54 | 603.3 | | 67.87125 | |
| 12:58:24 | 594.3 | | 66.85875 | |
| 12:58:54 | 569.3 | | 64.04625 | |
| 12:59:24 | 437.4 | | 49.2075 | |
| 12:59:54 | 398.1 | | 44.78625 | |
| 13:00:24 | 368.6 | | 41.4675 | |
| 13:00:54 | 368.2 | | 41.4225 | |
| 13:01:24 | 381 | | 42.8625 | |
| 13:01:54 | 404.9 | | 45.55125 | |
| 13:02:24 | 429.6 | | 48.33 | |
| 13:02:54 | 439.9 | | 49.48875 | |
| 13:03:24 | 439.7 | | 49.46625 | |
| 13:03:54 | 442.7 | | 49.80375 | |
| 13:04:24 | 455.6 | | 51.255 | |
| 13:04:54 | 467.9 | | 52.63875 | |
| 13:05:24 | 483 | | 54.3375 | |
| 13:05:54 | 486.9 | | 54.77625 | |
| 13:06:24 | 490.6 | | 55.1925 | |
| 13:06:54 | 489.5 | | 55.06875 | |

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| 13:07:24 | 488.4 | | 54.945 | |
| 13:07:54 | 483.6 | | 54.405 | |
| 13:08:24 | 475.4 | | 53.4825 | |
| 13:08:54 | 467.3 | | 52.57125 | |
| 13:09:24 | 460.6 | | 51.8175 | |
| 13:09:54 | 454.8 | | 51.165 | |
| 13:10:24 | 448.1 | | 50.41125 | |
| 13:10:54 | 442.6 | | 49.7925 | |
| 13:11:24 | 446.2 | | 50.1975 | |
| 13:11:54 | 470.1 | | 52.88625 | |
| 13:12:24 | 577 | | 64.9125 | |
| 13:12:54 | 652.4 | | 73.395 | |
| 13:13:24 | 614.4 | | 69.12 | |
| 13:13:54 | 592.6 | | 66.6675 | |
| 13:14:24 | 782.9 | | 88.07625 | |
| 13:14:54 | 906 | | 101.925 | |
| 13:15:24 | 739.1 | | 83.14875 | |
| 13:15:54 | 998.6 | | 112.3425 | |
| 13:16:24 | 856.9 | | 96.40125 | |
| 13:16:54 | 738.7 | | 83.10375 | |
| 13:17:24 | 908.2 | | 102.1725 | |
| 13:17:54 | 727.7 | | 81.86625 | |
| 13:18:24 | 712.5 | | 80.15625 | |
| 13:18:54 | 461.6 | | 51.93 | |
| 13:19:24 | 445.1 | | 50.07375 | |
| 13:19:54 | 453.4 | | 51.0075 | |
| 13:20:24 | 429.9 | | 48.36375 | |
| 13:20:54 | 412.3 | | 46.38375 | |
| 13:21:24 | 410.1 | | 46.13625 | |
| 13:21:54 | 414.1 | | 46.58625 | |
| 13:22:24 | 422.3 | | 47.50875 | |
| 13:22:54 | 415.8 | | 46.7775 | |
| 13:23:24 | 393.5 | | 44.26875 | |
| 13:23:54 | 380 | | 42.75 | |
| 13:24:24 | 378.6 | | 42.5925 | |
| 13:24:54 | 375.4 | | 42.2325 | |
| 13:25:24 | 372 | | 41.85 | |
| 13:25:54 | 382.7 | | 43.05375 | |
| 13:26:24 | 423.6 | | 47.655 | |
| 13:26:54 | 402.8 | | 45.315 | |
| 13:27:24 | 399.8 | | 44.9775 | |
| 13:27:54 | 405.4 | | 45.6075 | |



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| 13:28:24 | 410 | | 46.125 | |
| 13:28:54 | 425 | | 47.8125 | |
| 13:29:24 | 424.7 | | 47.77875 | |
| 13:29:54 | 406.2 | | 45.6975 | |
| 13:30:24 | 397.1 | | 44.67375 | |
| 13:30:54 | 392.9 | | 44.20125 | |
| 13:31:24 | 389.1 | | 43.77375 | |
| 13:31:54 | 387 | | 43.5375 | |
| 13:32:24 | 387.2 | | 43.56 | |
| 13:32:54 | 392.1 | | 44.11125 | |
| 13:33:24 | 399.8 | | 44.9775 | |
| 13:33:54 | 407.9 | | 45.88875 | |
| 13:34:24 | 415.7 | | 46.76625 | |
| 13:34:54 | 423 | | 47.5875 | |
| 13:35:24 | 432.5 | | 48.65625 | |
| 13:35:54 | 429 | | 48.2625 | |
| 13:36:24 | 419 | | 47.1375 | |
| 13:36:54 | 409.2 | | 46.035 | |
| 13:37:24 | 400.1 | | 45.01125 | |
| 13:37:54 | 392.9 | | 44.20125 | |
| 13:38:24 | 379.9 | | 42.73875 | |
| 13:38:54 | 371 | | 41.7375 | |
| 13:39:24 | 363.2 | | 40.86 | |
| 13:39:54 | 354.2 | | 39.8475 | |
| 13:40:24 | 350.7 | | 39.45375 | |
| 13:40:54 | 351.1 | | 39.49875 | |
| 13:41:24 | 355.8 | | 40.0275 | |
| 13:41:54 | 365.3 | | 41.09625 | |
| 13:42:24 | 407.4 | | 45.8325 | |
| 13:42:54 | 409.3 | | 46.04625 | |
| 13:43:24 | 415.4 | | 46.7325 | |
| 13:43:54 | 410.3 | | 46.15875 | |
| 13:44:24 | 406.2 | | 45.6975 | |
| 13:44:54 | 403.3 | | 45.37125 | |
| 13:45:24 | 398.7 | | 44.85375 | |
| 13:45:54 | 395.6 | | 44.505 | |
| 13:46:24 | 390.3 | | 43.90875 | |
| 13:46:54 | 383.2 | | 43.11 | |
| 13:47:24 | 372.7 | | 41.92875 | |
| 13:47:54 | 362.9 | | 40.82625 | |
| 13:48:24 | 345.7 | | 38.89125 | |
| 13:48:54 | 331.6 | | 37.305 | |

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|----------|-------|--|----------|--|
| 13:49:24 | 322.4 | | 36.27 | |
| 13:49:54 | 320 | | 36 | |
| 13:50:24 | 318 | | 35.775 | |
| 13:50:54 | 319.4 | | 35.9325 | |
| 13:51:24 | 324.4 | | 36.495 | |
| 13:51:54 | 328.9 | | 37.00125 | |
| 13:52:24 | 332.5 | | 37.40625 | |
| 13:52:54 | 335.5 | | 37.74375 | |
| 13:53:24 | 338.2 | | 38.0475 | |
| 13:53:54 | 344.1 | | 38.71125 | |
| 13:54:24 | 350.4 | | 39.42 | |
| 13:54:54 | 356 | | 40.05 | |
| 13:55:24 | 360.9 | | 40.60125 | |
| 13:55:54 | 365 | | 41.0625 | |
| 13:56:24 | 368.9 | | 41.50125 | |
| 13:56:54 | 371 | | 41.7375 | |
| 13:57:24 | 370.4 | | 41.67 | |
| 13:57:54 | 366.9 | | 41.27625 | |
| 13:58:24 | 359.6 | | 40.455 | |
| 13:58:54 | 349.2 | | 39.285 | |
| 13:59:24 | 335.8 | | 37.7775 | |
| 13:59:54 | 323.2 | | 36.36 | |
| 14:00:24 | 312.4 | | 35.145 | |
| 14:00:54 | 304.7 | | 34.27875 | |
| 14:01:24 | 300.2 | | 33.7725 | |
| 14:01:54 | 298.3 | | 33.55875 | |
| 14:02:24 | 301.2 | | 33.885 | |
| 14:02:54 | 305.6 | | 34.38 | |
| 14:03:24 | 310.5 | | 34.93125 | |
| 14:03:54 | 315.1 | | 35.44875 | |
| 14:04:24 | 318 | | 35.775 | |
| 14:04:54 | 319.7 | | 35.96625 | |
| 14:05:24 | 320.2 | | 36.0225 | |
| 14:05:54 | 321 | | 36.1125 | |
| 14:06:24 | 322.5 | | 36.28125 | |
| 14:06:54 | 325.7 | | 36.64125 | |
| 14:07:24 | 328.6 | | 36.9675 | |
| 14:07:54 | 330.3 | | 37.15875 | |
| 14:08:24 | 331.6 | | 37.305 | |
| 14:08:54 | 332.5 | | 37.40625 | |
| 14:09:24 | 331.7 | | 37.31625 | |
| 14:09:54 | 330.3 | | 37.15875 | |



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|----------|--------------|--|--------------------|--|
| 14:10:24 | 329.2 | | 37.035 | |
| 14:10:54 | 328.6 | | 36.9675 | |
| 14:11:24 | 327.6 | | 36.855 | |
| 14:11:54 | 327.5 | | 36.84375 | |
| 14:12:24 | 327.9 | | 36.88875 | |
| 14:12:54 | 330.5 | | 37.18125 | |
| 14:13:24 | 333.5 | | 37.51875 | |
| 14:13:54 | 337.1 | | 37.92375 | |
| 14:14:24 | 341.7 | | 38.44125 | |
| 14:14:54 | 348.7 | | 39.22875 | |
| 14:15:24 | 357.7 | | 40.24125 | |
| 14:15:54 | 369.6 | | 41.58 | |
| 14:16:24 | 386.2 | | 43.4475 | |
| Average | 599.8 | | 67.47984698 | |

Appendix Table 3, Daily solar irradiance 20 June 2019

| Site Name: | Lapangan Pemuda | | Date: | 20/06/2019 | Equipment: | |
|------------|--|----------------------------------|---|------------|------------|--|
| Location: | Lat: -6.118406 | | Long: 120.457592 | | | |
| Elevation: | + 1 meter | | Time Zone: | WITA | | |
| | | | | | | |
| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark | | |
| 09:00:22 | 248.3 | | 27.93375 | | | |
| 09:00:52 | 285.6 | | 32.13 | | | |
| 09:01:22 | 489.9 | | 55.11375 | | | |
| 09:01:52 | 395.4 | | 44.4825 | | | |
| 09:02:22 | 465.2 | | 52.335 | | | |
| 09:02:52 | 658.9 | | 74.12625 | | | |
| 09:03:22 | 454.5 | | 51.13125 | | | |
| 09:03:52 | 747 | | 84.0375 | | | |
| 09:04:22 | 441 | | 49.6125 | | | |
| 09:04:52 | 325.2 | | 36.585 | | | |
| 09:05:22 | 599.5 | | 67.44375 | | | |
| 09:05:52 | 310.4 | | 34.92 | | | |
| 09:06:22 | 298 | | 33.525 | | | |
| 09:06:52 | 313.4 | | 35.2575 | | | |
| 09:07:22 | 318.9 | | 35.87625 | | | |
| 09:07:52 | 321.3 | | 36.14625 | | | |
| 09:08:22 | 328.7 | | 36.97875 | | | |
| 09:08:52 | 469.4 | | 52.8075 | | | |
| 09:09:22 | 738.9 | | 83.12625 | | | |
| 09:09:52 | 753.8 | | 84.8025 | | | |
| 09:10:22 | 525.3 | | 59.09625 | | | |
| 09:10:52 | 460.5 | | 51.80625 | | | |
| 09:11:22 | 730.3 | | 82.15875 | | | |
| 09:11:52 | 553.3 | | 62.24625 | | | |
| 09:12:22 | 814 | | 91.575 | | | |
| 09:12:52 | 453.5 | | 51.01875 | | | |
| 09:13:22 | 358.7 | | 40.35375 | | | |
| 09:13:52 | 307 | | 34.5375 | | | |
| 09:14:22 | 413.9 | | 46.56375 | | | |
| 09:14:52 | 368.6 | | 41.4675 | | | |
| 09:15:22 | 357.1 | | 40.17375 | | | |
| 09:15:52 | 570.4 | | 64.17 | | | |



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|----------|-------|--|-----------|--|
| 09:16:22 | 639 | | 71.8875 | |
| 09:16:52 | 744.9 | | 83.80125 | |
| 09:17:22 | 572 | | 64.35 | |
| 09:17:52 | 769.3 | | 86.54625 | |
| 09:18:22 | 560.7 | | 63.07875 | |
| 09:18:52 | 471.9 | | 53.08875 | |
| 09:19:22 | 360.6 | | 40.5675 | |
| 09:19:52 | 457.3 | | 51.44625 | |
| 09:20:22 | 313 | | 35.2125 | |
| 09:20:52 | 336 | | 37.8 | |
| 09:21:22 | 909.1 | | 102.27375 | |
| 09:21:52 | 584.8 | | 65.79 | |
| 09:22:22 | 528.4 | | 59.445 | |
| 09:22:52 | 406.6 | | 45.7425 | |
| 09:23:22 | 474.9 | | 53.42625 | |
| 09:23:52 | 505 | | 56.8125 | |
| 09:24:22 | 573.4 | | 64.5075 | |
| 09:24:52 | 666.2 | | 74.9475 | |
| 09:25:22 | 564.1 | | 63.46125 | |
| 09:25:52 | 475.7 | | 53.51625 | |
| 09:26:22 | 475.7 | | 53.51625 | |
| 09:26:52 | 475.5 | | 53.49375 | |
| 09:27:22 | 382.7 | | 43.05375 | |
| 09:27:52 | 489.8 | | 55.1025 | |
| 09:28:22 | 540.5 | | 60.80625 | |
| 09:28:52 | 518.9 | | 58.37625 | |
| 09:29:22 | 474.3 | | 53.35875 | |
| 09:29:52 | 681.9 | | 76.71375 | |
| 09:30:22 | 847.2 | | 95.31 | |
| 09:30:52 | 652.7 | | 73.42875 | |
| 09:31:22 | 645.8 | | 72.6525 | |
| 09:31:52 | 742.7 | | 83.55375 | |
| 09:32:22 | 906.3 | | 101.95875 | |
| 09:32:52 | 349.3 | | 39.29625 | |
| 09:33:22 | 337 | | 37.9125 | |
| 09:33:52 | 287.4 | | 32.3325 | |
| 09:34:22 | 372.3 | | 41.88375 | |
| 09:34:52 | 718.5 | | 80.83125 | |
| 09:35:22 | 365.9 | | 41.16375 | |
| 09:35:52 | 861.2 | | 96.885 | |
| 09:36:22 | 400.6 | | 45.0675 | |
| 09:36:52 | 538.4 | | 60.57 | |

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|----------|-------|--|-----------|--|
| 09:37:22 | 565.2 | | 63.585 | |
| 09:37:52 | 477.3 | | 53.69625 | |
| 09:38:22 | 365.6 | | 41.13 | |
| 09:38:52 | 325.6 | | 36.63 | |
| 09:39:22 | 428.3 | | 48.18375 | |
| 09:39:52 | 528.9 | | 59.50125 | |
| 09:40:22 | 782.5 | | 88.03125 | |
| 09:40:52 | 831.4 | | 93.5325 | |
| 09:41:22 | 822 | | 92.475 | |
| 09:41:52 | 797.7 | | 89.74125 | |
| 09:42:22 | 748.1 | | 84.16125 | |
| 09:42:52 | 817.8 | | 92.0025 | |
| 09:43:22 | 760.4 | | 85.545 | |
| 09:43:52 | 735.3 | | 82.72125 | |
| 09:44:22 | 818.4 | | 92.07 | |
| 09:44:52 | 833.8 | | 93.8025 | |
| 09:45:22 | 788.3 | | 88.68375 | |
| 09:45:52 | 679.7 | | 76.46625 | |
| 09:46:22 | 719.3 | | 80.92125 | |
| 09:46:52 | 778.8 | | 87.615 | |
| 09:47:22 | 825.7 | | 92.89125 | |
| 09:47:52 | 825.4 | | 92.8575 | |
| 09:48:22 | 830 | | 93.375 | |
| 09:48:52 | 817 | | 91.9125 | |
| 09:49:22 | 787.8 | | 88.6275 | |
| 09:49:52 | 661.6 | | 74.43 | |
| 09:50:22 | 517.5 | | 58.21875 | |
| 09:50:52 | 550.3 | | 61.90875 | |
| 09:51:22 | 813.8 | | 91.5525 | |
| 09:51:52 | 575.9 | | 64.78875 | |
| 09:52:22 | 519.9 | | 58.48875 | |
| 09:52:52 | 572.8 | | 64.44 | |
| 09:53:22 | 741 | | 83.3625 | |
| 09:53:52 | 743 | | 83.5875 | |
| 09:54:22 | 845.6 | | 95.13 | |
| 09:54:52 | 865 | | 97.3125 | |
| 09:55:22 | 784.5 | | 88.25625 | |
| 09:55:52 | 710.2 | | 79.8975 | |
| 09:56:22 | 776.1 | | 87.31125 | |
| 09:56:52 | 879.4 | | 98.9325 | |
| 09:57:22 | 849.6 | | 95.58 | |
| 09:57:52 | 894.1 | | 100.58625 | |



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|----------|-------|--|----------|--|
| 09:58:22 | 796.1 | | 89.56125 | |
| 09:58:52 | 605.6 | | 68.13 | |
| 09:59:22 | 462.7 | | 52.05375 | |
| 09:59:52 | 872.9 | | 98.20125 | |
| 10:00:22 | 737 | | 82.9125 | |
| 10:00:52 | 825.5 | | 92.86875 | |
| 10:01:22 | 793.5 | | 89.26875 | |
| 10:01:52 | 712.3 | | 80.13375 | |
| 10:02:22 | 574.4 | | 64.62 | |
| 10:02:52 | 550.3 | | 61.90875 | |
| 10:03:22 | 752.5 | | 84.65625 | |
| 10:03:52 | 639.8 | | 71.9775 | |
| 10:04:22 | 776.8 | | 87.39 | |
| 10:04:52 | 539.5 | | 60.69375 | |
| 10:05:22 | 763 | | 85.8375 | |
| 10:05:52 | 878 | | 98.775 | |
| 10:06:22 | 862.7 | | 97.05375 | |
| 10:06:52 | 812.4 | | 91.395 | |
| 10:07:22 | 795.6 | | 89.505 | |
| 10:07:52 | 854.7 | | 96.15375 | |
| 10:08:22 | 856.4 | | 96.345 | |
| 10:08:52 | 856.3 | | 96.33375 | |
| 10:09:22 | 855.3 | | 96.22125 | |
| 10:09:52 | 852.8 | | 95.94 | |
| 10:10:22 | 847.5 | | 95.34375 | |
| 10:10:52 | 854.5 | | 96.13125 | |
| 10:11:22 | 849.9 | | 95.61375 | |
| 10:11:52 | 847.5 | | 95.34375 | |
| 10:12:22 | 850.9 | | 95.72625 | |
| 10:12:52 | 846.9 | | 95.27625 | |
| 10:13:22 | 844.1 | | 94.96125 | |
| 10:13:52 | 840.9 | | 94.60125 | |
| 10:14:22 | 842.8 | | 94.815 | |
| 10:14:52 | 838.4 | | 94.32 | |
| 10:15:22 | 835.5 | | 93.99375 | |
| 10:15:52 | 836 | | 94.05 | |
| 10:16:22 | 838.8 | | 94.365 | |
| 10:16:52 | 837.4 | | 94.2075 | |
| 10:17:22 | 834.7 | | 93.90375 | |
| 10:17:52 | 834.4 | | 93.87 | |
| 10:18:22 | 841.4 | | 94.6575 | |
| 10:18:52 | 835.7 | | 94.01625 | |

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|----------|-------|--|----------|--|
| 10:19:22 | 722 | | 81.225 | |
| 10:19:52 | 842.6 | | 94.7925 | |
| 10:20:22 | 847.2 | | 95.31 | |
| 10:20:52 | 843 | | 94.8375 | |
| 10:21:22 | 843.9 | | 94.93875 | |
| 10:21:52 | 848.2 | | 95.4225 | |
| 10:22:22 | 846.4 | | 95.22 | |
| 10:22:52 | 846.4 | | 95.22 | |
| 10:23:22 | 843.1 | | 94.84875 | |
| 10:23:52 | 847.1 | | 95.29875 | |
| 10:24:22 | 846.6 | | 95.2425 | |
| 10:24:52 | 847.5 | | 95.34375 | |
| 10:25:22 | 838.7 | | 94.35375 | |
| 10:25:52 | 845.2 | | 95.085 | |
| 10:26:22 | 850.6 | | 95.6925 | |
| 10:26:52 | 852.6 | | 95.9175 | |
| 10:27:22 | 849.3 | | 95.54625 | |
| 10:27:52 | 851.2 | | 95.76 | |
| 10:28:22 | 850.2 | | 95.6475 | |
| 10:28:52 | 851.7 | | 95.81625 | |
| 10:29:22 | 851.3 | | 95.77125 | |
| 10:29:52 | 853.6 | | 96.03 | |
| 10:30:22 | 854.2 | | 96.0975 | |
| 10:30:52 | 855 | | 96.1875 | |
| 10:31:22 | 853.4 | | 96.0075 | |
| 10:31:52 | 861.5 | | 96.91875 | |
| 10:32:22 | 863.4 | | 97.1325 | |
| 10:32:52 | 862.4 | | 97.02 | |
| 10:33:22 | 859.3 | | 96.67125 | |
| 10:33:52 | 861 | | 96.8625 | |
| 10:34:22 | 865.1 | | 97.32375 | |
| 10:34:52 | 862.4 | | 97.02 | |
| 10:35:22 | 858.6 | | 96.5925 | |
| 10:35:52 | 854.5 | | 96.13125 | |
| 10:36:22 | 859.7 | | 96.71625 | |
| 10:36:52 | 861.6 | | 96.93 | |
| 10:37:22 | 866.2 | | 97.4475 | |
| 10:37:52 | 868.9 | | 97.75125 | |
| 10:38:22 | 869.6 | | 97.83 | |
| 10:38:52 | 876.2 | | 98.5725 | |
| 10:39:22 | 874.3 | | 98.35875 | |
| 10:39:52 | 876.7 | | 98.62875 | |



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|----------|-------|--|-----------|--|
| 10:40:22 | 881 | | 99.1125 | |
| 10:40:52 | 881.8 | | 99.2025 | |
| 10:41:22 | 877.5 | | 98.71875 | |
| 10:41:52 | 877.8 | | 98.7525 | |
| 10:42:22 | 879.9 | | 98.98875 | |
| 10:42:52 | 876.7 | | 98.62875 | |
| 10:43:22 | 879.5 | | 98.94375 | |
| 10:43:52 | 880.6 | | 99.0675 | |
| 10:44:22 | 884.9 | | 99.55125 | |
| 10:44:52 | 883 | | 99.3375 | |
| 10:45:22 | 881.9 | | 99.21375 | |
| 10:45:52 | 886.2 | | 99.6975 | |
| 10:46:22 | 887.5 | | 99.84375 | |
| 10:46:52 | 884.4 | | 99.495 | |
| 10:47:22 | 881.9 | | 99.21375 | |
| 10:47:52 | 883.8 | | 99.4275 | |
| 10:48:22 | 881.3 | | 99.14625 | |
| 10:48:52 | 883.5 | | 99.39375 | |
| 10:49:22 | 885.6 | | 99.63 | |
| 10:49:52 | 885.7 | | 99.64125 | |
| 10:50:22 | 889 | | 100.0125 | |
| 10:50:52 | 887.3 | | 99.82125 | |
| 10:51:22 | 891.9 | | 100.33875 | |
| 10:51:52 | 893.5 | | 100.51875 | |
| 10:52:22 | 890.1 | | 100.13625 | |
| 10:52:52 | 886.7 | | 99.75375 | |
| 10:53:22 | 884.8 | | 99.54 | |
| 10:53:52 | 888.2 | | 99.9225 | |
| 10:54:22 | 892.2 | | 100.3725 | |
| 10:54:52 | 890.3 | | 100.15875 | |
| 10:55:22 | 887.9 | | 99.88875 | |
| 10:55:52 | 889 | | 100.0125 | |
| 10:56:22 | 894.1 | | 100.58625 | |
| 10:56:52 | 890 | | 100.125 | |
| 10:57:22 | 892.4 | | 100.395 | |
| 10:57:52 | 888.9 | | 100.00125 | |
| 10:58:22 | 893.6 | | 100.53 | |
| 10:58:52 | 895.4 | | 100.7325 | |
| 10:59:22 | 899.3 | | 101.17125 | |
| 10:59:52 | 896.6 | | 100.8675 | |
| 11:00:22 | 897 | | 100.9125 | |
| 11:00:52 | 898.9 | | 101.12625 | |

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|----------|-------|--|-----------|--|
| 11:01:22 | 899.6 | | 101.205 | |
| 11:01:52 | 896.3 | | 100.83375 | |
| 11:02:22 | 902 | | 101.475 | |
| 11:02:52 | 903.8 | | 101.6775 | |
| 11:03:22 | 903.3 | | 101.62125 | |
| 11:03:52 | 903.4 | | 101.6325 | |
| 11:04:22 | 902.8 | | 101.565 | |
| 11:04:52 | 906 | | 101.925 | |
| 11:05:22 | 904.1 | | 101.71125 | |
| 11:05:52 | 906.1 | | 101.93625 | |
| 11:06:22 | 907.7 | | 102.11625 | |
| 11:06:52 | 901.9 | | 101.46375 | |
| 11:07:22 | 905 | | 101.8125 | |
| 11:07:52 | 904.9 | | 101.80125 | |
| 11:08:22 | 906.5 | | 101.98125 | |
| 11:08:52 | 906.1 | | 101.93625 | |
| 11:09:22 | 905.5 | | 101.86875 | |
| 11:09:52 | 904.4 | | 101.745 | |
| 11:10:22 | 903.8 | | 101.6775 | |
| 11:10:52 | 904.4 | | 101.745 | |
| 11:11:22 | 908.5 | | 102.20625 | |
| 11:11:52 | 914.7 | | 102.90375 | |
| 11:12:22 | 915.5 | | 102.99375 | |
| 11:12:52 | 917.2 | | 103.185 | |
| 11:13:22 | 915.8 | | 103.0275 | |
| 11:13:52 | 918.5 | | 103.33125 | |
| 11:14:22 | 916.1 | | 103.06125 | |
| 11:14:52 | 917.5 | | 103.21875 | |
| 11:15:22 | 916.1 | | 103.06125 | |
| 11:15:52 | 918 | | 103.275 | |
| 11:16:22 | 918.2 | | 103.2975 | |
| 11:16:52 | 916 | | 103.05 | |
| 11:17:22 | 922.9 | | 103.82625 | |
| 11:17:52 | 919.8 | | 103.4775 | |
| 11:18:22 | 918.3 | | 103.30875 | |
| 11:18:52 | 918.7 | | 103.35375 | |
| 11:19:22 | 919 | | 103.3875 | |
| 11:19:52 | 919.8 | | 103.4775 | |
| 11:20:22 | 919.4 | | 103.4325 | |
| 11:20:52 | 914.9 | | 102.92625 | |
| 11:21:22 | 916.9 | | 103.15125 | |
| 11:21:52 | 916.9 | | 103.15125 | |



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|----------|-------|--|-----------|--|
| 11:22:22 | 918.2 | | 103.2975 | |
| 11:22:52 | 920.7 | | 103.57875 | |
| 11:23:22 | 922.8 | | 103.815 | |
| 11:23:52 | 923.6 | | 103.905 | |
| 11:24:22 | 924 | | 103.95 | |
| 11:24:52 | 920.6 | | 103.5675 | |
| 11:25:22 | 921.3 | | 103.64625 | |
| 11:25:52 | 921.7 | | 103.69125 | |
| 11:26:22 | 918.5 | | 103.33125 | |
| 11:26:52 | 921.8 | | 103.7025 | |
| 11:27:22 | 923.7 | | 103.91625 | |
| 11:27:52 | 922.6 | | 103.7925 | |
| 11:28:22 | 924.2 | | 103.9725 | |
| 11:28:52 | 925.1 | | 104.07375 | |
| 11:29:22 | 924.7 | | 104.02875 | |
| 11:29:52 | 922.5 | | 103.78125 | |
| 11:30:22 | 925.1 | | 104.07375 | |
| 11:30:52 | 925 | | 104.0625 | |
| 11:31:22 | 927.7 | | 104.36625 | |
| 11:31:52 | 930.2 | | 104.6475 | |
| 11:32:22 | 926.3 | | 104.20875 | |
| 11:32:52 | 924.2 | | 103.9725 | |
| 11:33:22 | 925.3 | | 104.09625 | |
| 11:33:52 | 924 | | 103.95 | |
| 11:34:22 | 926.1 | | 104.18625 | |
| 11:34:52 | 922.6 | | 103.7925 | |
| 11:35:22 | 922.6 | | 103.7925 | |
| 11:35:52 | 923.4 | | 103.8825 | |
| 11:36:22 | 926.6 | | 104.2425 | |
| 11:36:52 | 929.3 | | 104.54625 | |
| 11:37:22 | 929.3 | | 104.54625 | |
| 11:37:52 | 932.1 | | 104.86125 | |
| 11:38:22 | 932.3 | | 104.88375 | |
| 11:38:52 | 930.7 | | 104.70375 | |
| 11:39:22 | 933.2 | | 104.985 | |
| 11:39:52 | 931.3 | | 104.77125 | |
| 11:40:22 | 932.4 | | 104.895 | |
| 11:40:52 | 933.2 | | 104.985 | |
| 11:41:22 | 927.7 | | 104.36625 | |
| 11:41:52 | 930.1 | | 104.63625 | |
| 11:42:22 | 929.3 | | 104.54625 | |
| 11:42:52 | 928 | | 104.4 | |

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|----------|-------|--|-----------|--|
| 11:43:22 | 930.7 | | 104.70375 | |
| 11:43:52 | 934.2 | | 105.0975 | |
| 11:44:22 | 935.3 | | 105.22125 | |
| 11:44:52 | 933.4 | | 105.0075 | |
| 11:45:22 | 937.7 | | 105.49125 | |
| 11:45:52 | 935.1 | | 105.19875 | |
| 11:46:22 | 933.4 | | 105.0075 | |
| 11:46:52 | 934.3 | | 105.10875 | |
| 11:47:22 | 934.6 | | 105.1425 | |
| 11:47:52 | 930.8 | | 104.715 | |
| 11:48:22 | 927.7 | | 104.36625 | |
| 11:48:52 | 930.8 | | 104.715 | |
| 11:49:22 | 931.8 | | 104.8275 | |
| 11:49:52 | 928 | | 104.4 | |
| 11:50:22 | 932.9 | | 104.95125 | |
| 11:50:52 | 933.1 | | 104.97375 | |
| 11:51:22 | 932.9 | | 104.95125 | |
| 11:51:52 | 934 | | 105.075 | |
| 11:52:22 | 932.4 | | 104.895 | |
| 11:52:52 | 931.5 | | 104.79375 | |
| 11:53:22 | 933.4 | | 105.0075 | |
| 11:53:52 | 927.4 | | 104.3325 | |
| 11:54:22 | 931.5 | | 104.79375 | |
| 11:54:52 | 933.2 | | 104.985 | |
| 11:55:22 | 935.3 | | 105.22125 | |
| 11:55:52 | 934.8 | | 105.165 | |
| 11:56:22 | 934.2 | | 105.0975 | |
| 11:56:52 | 932.7 | | 104.92875 | |
| 11:57:22 | 932.6 | | 104.9175 | |
| 11:57:52 | 935 | | 105.1875 | |
| 11:58:22 | 932.1 | | 104.86125 | |
| 11:58:52 | 932.9 | | 104.95125 | |
| 11:59:22 | 932.3 | | 104.88375 | |
| 11:59:52 | 932.6 | | 104.9175 | |
| 12:00:22 | 934.2 | | 105.0975 | |
| 12:00:52 | 932.9 | | 104.95125 | |
| 12:01:22 | 932.4 | | 104.895 | |
| 12:01:52 | 930.4 | | 104.67 | |
| 12:02:22 | 930.5 | | 104.68125 | |
| 12:02:52 | 929.4 | | 104.5575 | |
| 12:03:22 | 934.3 | | 105.10875 | |
| 12:03:52 | 934.8 | | 105.165 | |



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|----------|-------|--|-----------|--|
| 12:04:22 | 931.8 | | 104.8275 | |
| 12:04:52 | 931 | | 104.7375 | |
| 12:05:22 | 932.7 | | 104.92875 | |
| 12:05:52 | 932.7 | | 104.92875 | |
| 12:06:22 | 933.4 | | 105.0075 | |
| 12:06:52 | 930.8 | | 104.715 | |
| 12:07:22 | 927.5 | | 104.34375 | |
| 12:07:52 | 931.8 | | 104.8275 | |
| 12:08:22 | 930.4 | | 104.67 | |
| 12:08:52 | 930.7 | | 104.70375 | |
| 12:09:22 | 934 | | 105.075 | |
| 12:09:52 | 932.6 | | 104.9175 | |
| 12:10:22 | 930.7 | | 104.70375 | |
| 12:10:52 | 931 | | 104.7375 | |
| 12:11:22 | 930.8 | | 104.715 | |
| 12:11:52 | 931.5 | | 104.79375 | |
| 12:12:22 | 930.5 | | 104.68125 | |
| 12:12:52 | 931 | | 104.7375 | |
| 12:13:22 | 927.4 | | 104.3325 | |
| 12:13:52 | 928.2 | | 104.4225 | |
| 12:14:22 | 930.5 | | 104.68125 | |
| 12:14:52 | 930.2 | | 104.6475 | |
| 12:15:22 | 926.6 | | 104.2425 | |
| 12:15:52 | 927.5 | | 104.34375 | |
| 12:16:22 | 927.5 | | 104.34375 | |
| 12:16:52 | 926.9 | | 104.27625 | |
| 12:17:22 | 923.4 | | 103.8825 | |
| 12:17:52 | 922.9 | | 103.82625 | |
| 12:18:22 | 923.1 | | 103.84875 | |
| 12:18:52 | 922.9 | | 103.82625 | |
| 12:19:22 | 923.9 | | 103.93875 | |
| 12:19:52 | 923.7 | | 103.91625 | |
| 12:20:22 | 924.4 | | 103.995 | |
| 12:20:52 | 925.3 | | 104.09625 | |
| 12:21:22 | 919.1 | | 103.39875 | |
| 12:21:52 | 922.9 | | 103.82625 | |
| 12:22:22 | 925 | | 104.0625 | |
| 12:22:52 | 922.8 | | 103.815 | |
| 12:23:22 | 922 | | 103.725 | |
| 12:23:52 | 922.1 | | 103.73625 | |
| 12:24:22 | 922.6 | | 103.7925 | |
| 12:24:52 | 921.7 | | 103.69125 | |

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| 12:25:22 | 921.2 | | 103.635 | |
| 12:25:52 | 918.8 | | 103.365 | |
| 12:26:22 | 921 | | 103.6125 | |
| 12:26:52 | 916.6 | | 103.1175 | |
| 12:27:22 | 918 | | 103.275 | |
| 12:27:52 | 917.1 | | 103.17375 | |
| 12:28:22 | 913.7 | | 102.79125 | |
| 12:28:52 | 916.4 | | 103.095 | |
| 12:29:22 | 916.1 | | 103.06125 | |
| 12:29:52 | 915.2 | | 102.96 | |
| 12:30:22 | 915.5 | | 102.99375 | |
| 12:30:52 | 917.1 | | 103.17375 | |
| 12:31:22 | 917.1 | | 103.17375 | |
| 12:31:52 | 915.3 | | 102.97125 | |
| 12:32:22 | 913.3 | | 102.74625 | |
| 12:32:52 | 918.2 | | 103.2975 | |
| 12:33:22 | 917.5 | | 103.21875 | |
| 12:33:52 | 917.5 | | 103.21875 | |
| 12:34:22 | 917.7 | | 103.24125 | |
| 12:34:52 | 918.7 | | 103.35375 | |
| 12:35:22 | 916.6 | | 103.1175 | |
| 12:35:52 | 916.6 | | 103.1175 | |
| 12:36:22 | 917.1 | | 103.17375 | |
| 12:36:52 | 915.6 | | 103.005 | |
| 12:37:22 | 914.2 | | 102.8475 | |
| 12:37:52 | 909.9 | | 102.36375 | |
| 12:38:22 | 909.1 | | 102.27375 | |
| 12:38:52 | 909.3 | | 102.29625 | |
| 12:39:22 | 905.5 | | 101.86875 | |
| 12:39:52 | 907.9 | | 102.13875 | |
| 12:40:22 | 909.8 | | 102.3525 | |
| 12:40:52 | 906.8 | | 102.015 | |
| 12:41:22 | 905.5 | | 101.86875 | |
| 12:41:52 | 909 | | 102.2625 | |
| 12:42:22 | 907.4 | | 102.0825 | |
| 12:42:52 | 905.8 | | 101.9025 | |
| 12:43:22 | 909.6 | | 102.33 | |
| 12:43:52 | 908 | | 102.15 | |
| 12:44:22 | 910.3 | | 102.40875 | |
| 12:44:52 | 906.5 | | 101.98125 | |
| 12:45:22 | 910.3 | | 102.40875 | |
| 12:45:52 | 908.8 | | 102.24 | |



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|----------|-------|--|-----------|--|
| 12:46:22 | 910.7 | | 102.45375 | |
| 12:46:52 | 910.4 | | 102.42 | |
| 12:47:22 | 906.5 | | 101.98125 | |
| 12:47:52 | 901.5 | | 101.41875 | |
| 12:48:22 | 906.8 | | 102.015 | |
| 12:48:52 | 906.8 | | 102.015 | |
| 12:49:22 | 905 | | 101.8125 | |
| 12:49:52 | 901.9 | | 101.46375 | |
| 12:50:22 | 901.7 | | 101.44125 | |
| 12:50:52 | 900.4 | | 101.295 | |
| 12:51:22 | 899 | | 101.1375 | |
| 12:51:52 | 894.9 | | 100.67625 | |
| 12:52:22 | 895.4 | | 100.7325 | |
| 12:52:52 | 899.3 | | 101.17125 | |
| 12:53:22 | 895.7 | | 100.76625 | |
| 12:53:52 | 897.3 | | 100.94625 | |
| 12:54:22 | 893.2 | | 100.485 | |
| 12:54:52 | 894.6 | | 100.6425 | |
| 12:55:22 | 893.9 | | 100.56375 | |
| 12:55:52 | 891.1 | | 100.24875 | |
| 12:56:22 | 892.7 | | 100.42875 | |
| 12:56:52 | 892.2 | | 100.3725 | |
| 12:57:22 | 893.3 | | 100.49625 | |
| 12:57:52 | 893.9 | | 100.56375 | |
| 12:58:22 | 890.9 | | 100.22625 | |
| 12:58:52 | 896.2 | | 100.8225 | |
| 12:59:22 | 894.9 | | 100.67625 | |
| 12:59:52 | 891.7 | | 100.31625 | |
| 13:00:22 | 890.8 | | 100.215 | |
| 13:00:52 | 889 | | 100.0125 | |
| 13:01:22 | 888.7 | | 99.97875 | |
| 13:01:52 | 888.9 | | 100.00125 | |
| 13:02:22 | 884.8 | | 99.54 | |
| 13:02:52 | 883.8 | | 99.4275 | |
| 13:03:22 | 870.3 | | 97.90875 | |
| 13:03:52 | 880.2 | | 99.0225 | |
| 13:04:22 | 878.3 | | 98.80875 | |
| 13:04:52 | 882.4 | | 99.27 | |
| 13:05:22 | 874.3 | | 98.35875 | |
| 13:05:52 | 872.1 | | 98.11125 | |
| 13:06:22 | 872.1 | | 98.11125 | |
| 13:06:52 | 868.9 | | 97.75125 | |

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| 13:07:22 | 872.7 | | 98.17875 | |
| 13:07:52 | 870.8 | | 97.965 | |
| 13:08:22 | 864.6 | | 97.2675 | |
| 13:08:52 | 867.3 | | 97.57125 | |
| 13:09:22 | 870.7 | | 97.95375 | |
| 13:09:52 | 873.2 | | 98.235 | |
| 13:10:22 | 873 | | 98.2125 | |
| 13:10:52 | 868.3 | | 97.68375 | |
| 13:11:22 | 871.5 | | 98.04375 | |
| 13:11:52 | 873.4 | | 98.2575 | |
| 13:12:22 | 867.5 | | 97.59375 | |
| 13:12:52 | 872.4 | | 98.145 | |
| 13:13:22 | 862.7 | | 97.05375 | |
| 13:13:52 | 858.8 | | 96.615 | |
| 13:14:22 | 860.8 | | 96.84 | |
| 13:14:52 | 858.5 | | 96.58125 | |
| 13:15:22 | 852 | | 95.85 | |
| 13:15:52 | 845 | | 95.0625 | |
| 13:16:22 | 846.6 | | 95.2425 | |
| 13:16:52 | 850.4 | | 95.67 | |
| 13:17:22 | 842.3 | | 94.75875 | |
| 13:17:52 | 841.5 | | 94.66875 | |
| 13:18:22 | 841.8 | | 94.7025 | |
| 13:18:52 | 839.9 | | 94.48875 | |
| 13:19:22 | 839.8 | | 94.4775 | |
| 13:19:52 | 837.4 | | 94.2075 | |
| 13:20:22 | 841.1 | | 94.62375 | |
| 13:20:52 | 843.9 | | 94.93875 | |
| 13:21:22 | 842.5 | | 94.78125 | |
| 13:21:52 | 843.9 | | 94.93875 | |
| 13:22:22 | 838.5 | | 94.33125 | |
| 13:22:52 | 830.4 | | 93.42 | |
| 13:23:22 | 843.9 | | 94.93875 | |
| 13:23:52 | 843.6 | | 94.905 | |
| 13:24:22 | 845.2 | | 95.085 | |
| 13:24:52 | 843.4 | | 94.8825 | |
| 13:25:22 | 839.9 | | 94.48875 | |
| 13:25:52 | 833.4 | | 93.7575 | |
| 13:26:22 | 832.8 | | 93.69 | |
| 13:26:52 | 833.6 | | 93.78 | |
| 13:27:22 | 830.3 | | 93.40875 | |
| 13:27:52 | 826.8 | | 93.015 | |



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|----------|--------------|--|----------------|--|
| 13:28:22 | 826.6 | | 92.9925 | |
| 13:28:52 | 824.7 | | 92.77875 | |
| 13:29:22 | 823.3 | | 92.62125 | |
| 13:29:52 | 815.2 | | 91.71 | |
| 13:30:22 | 813 | | 91.4625 | |
| 13:30:52 | 812.9 | | 91.45125 | |
| 13:31:22 | 811.8 | | 91.3275 | |
| Average | 822.5 | | 92.5391 | |

Appendix Table 4, Daily solar irradiance 21 June 2019

| | | | | |
|------------|----------------|-------|------------------|------------|
| Site Name: | Appatana | Date: | 21/06/2019 | Equipment: |
| Location: | | | | |
| | Lat: -6.498358 | | Long: 120.483450 | |
| Elevation: | + 1 meter | | Time Zone: WITA | |

| Time | Solar irradiance (W/m2) | Air Temperature (degree C) | PV Power output (W/m2) | Remark |
|----------|-------------------------|----------------------------|------------------------|--------|
| 09:00:25 | 522.3 | | 58.75875 | |
| 09:00:55 | 523.7 | | 58.91625 | |
| 09:01:25 | 553 | | 62.2125 | |
| 09:01:55 | 548.1 | | 61.66125 | |
| 09:02:25 | 561.2 | | 63.135 | |
| 09:02:55 | 555.2 | | 62.46 | |
| 09:03:25 | 489.2 | | 55.035 | |
| 09:03:55 | 264.1 | | 29.71125 | |
| 09:04:25 | 158 | | 17.775 | |
| 09:04:55 | 156.1 | | 17.56125 | |
| 09:05:25 | 154.5 | | 17.38125 | |
| 09:05:55 | 153.6 | | 17.28 | |
| 09:06:25 | 172.3 | | 19.38375 | |
| 09:06:55 | 186.2 | | 20.9475 | |
| 09:07:25 | 263.2 | | 29.61 | |
| 09:07:55 | 362.9 | | 40.82625 | |
| 09:08:25 | 438.9 | | 49.37625 | |
| 09:08:55 | 325.9 | | 36.66375 | |
| 09:09:25 | 391.8 | | 44.0775 | |
| 09:09:55 | 274.4 | | 30.87 | |
| 09:10:25 | 573.9 | | 64.56375 | |
| 09:10:55 | 643.4 | | 72.3825 | |
| 09:11:25 | 640.7 | | 72.07875 | |
| 09:11:55 | 613.8 | | 69.0525 | |
| 09:12:25 | 615.2 | | 69.21 | |
| 09:12:55 | 606 | | 68.175 | |
| 09:13:25 | 588.1 | | 66.16125 | |
| 09:13:55 | 597.5 | | 67.21875 | |
| 09:14:25 | 593.8 | | 66.8025 | |
| 09:14:55 | 598.1 | | 67.28625 | |
| 09:15:25 | 613 | | 68.9625 | |
| 09:15:55 | 620.3 | | 69.78375 | |
| 09:16:25 | 618.9 | | 69.62625 | |



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|----------|-------|--|----------|--|
| 09:16:55 | 648.2 | | 72.9225 | |
| 09:17:25 | 635.8 | | 71.5275 | |
| 09:17:55 | 602.2 | | 67.7475 | |
| 09:18:25 | 330.5 | | 37.18125 | |
| 09:18:55 | 654.3 | | 73.60875 | |
| 09:19:25 | 611.9 | | 68.83875 | |
| 09:19:55 | 621.2 | | 69.885 | |
| 09:20:25 | 610.6 | | 68.6925 | |
| 09:20:55 | 627.1 | | 70.54875 | |
| 09:21:25 | 622.2 | | 69.9975 | |
| 09:21:55 | 632 | | 71.1 | |
| 09:22:25 | 653.2 | | 73.485 | |
| 09:22:55 | 185.6 | | 20.88 | |
| 09:23:25 | 661.5 | | 74.41875 | |
| 09:23:55 | 703.9 | | 79.18875 | |
| 09:24:25 | 697.6 | | 78.48 | |
| 09:24:55 | 213.9 | | 24.06375 | |
| 09:25:25 | 210.3 | | 23.65875 | |
| 09:25:55 | 332.8 | | 37.44 | |
| 09:26:25 | 232.9 | | 26.20125 | |
| 09:26:55 | 211.5 | | 23.79375 | |
| 09:27:25 | 206.9 | | 23.27625 | |
| 09:27:55 | 514.8 | | 57.915 | |
| 09:28:25 | 310.4 | | 34.92 | |
| 09:28:55 | 832 | | 93.6 | |
| 09:29:25 | 378.3 | | 42.55875 | |
| 09:29:55 | 689.2 | | 77.535 | |
| 09:30:25 | 741.6 | | 83.43 | |
| 09:30:55 | 368.8 | | 41.49 | |
| 09:31:25 | 824.9 | | 92.80125 | |
| 09:31:55 | 367.2 | | 41.31 | |
| 09:32:25 | 742.2 | | 83.4975 | |
| 09:32:55 | 697.1 | | 78.42375 | |
| 09:33:25 | 669.2 | | 75.285 | |
| 09:33:55 | 636.3 | | 71.58375 | |
| 09:34:25 | 650.1 | | 73.13625 | |
| 09:34:55 | 667.6 | | 75.105 | |
| 09:35:25 | 674.3 | | 75.85875 | |
| 09:35:55 | 668.3 | | 75.18375 | |
| 09:36:25 | 666.5 | | 74.98125 | |
| 09:36:55 | 663.4 | | 74.6325 | |
| 09:37:25 | 689.5 | | 77.56875 | |

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|----------|-------|--|----------|--|
| 09:37:55 | 726.1 | | 81.68625 | |
| 09:38:25 | 683.8 | | 76.9275 | |
| 09:38:55 | 698.2 | | 78.5475 | |
| 09:39:25 | 696.8 | | 78.39 | |
| 09:39:55 | 363.4 | | 40.8825 | |
| 09:40:25 | 717.7 | | 80.74125 | |
| 09:40:55 | 693 | | 77.9625 | |
| 09:41:25 | 687.1 | | 77.29875 | |
| 09:41:55 | 678.1 | | 76.28625 | |
| 09:42:25 | 670.5 | | 75.43125 | |
| 09:42:55 | 655.4 | | 73.7325 | |
| 09:43:25 | 687.3 | | 77.32125 | |
| 09:43:55 | 682.2 | | 76.7475 | |
| 09:44:25 | 669.7 | | 75.34125 | |
| 09:44:55 | 674 | | 75.825 | |
| 09:45:25 | 394.4 | | 44.37 | |
| 09:45:55 | 686.3 | | 77.20875 | |
| 09:46:25 | 680.6 | | 76.5675 | |
| 09:46:55 | 662.3 | | 74.50875 | |
| 09:47:25 | 659.1 | | 74.14875 | |
| 09:47:55 | 665.1 | | 74.82375 | |
| 09:48:25 | 673 | | 75.7125 | |
| 09:48:55 | 656.2 | | 73.8225 | |
| 09:49:25 | 629.8 | | 70.8525 | |
| 09:49:55 | 642.1 | | 72.23625 | |
| 09:50:25 | 661.5 | | 74.41875 | |
| 09:50:55 | 654.3 | | 73.60875 | |
| 09:51:25 | 661.1 | | 74.37375 | |
| 09:51:55 | 675.1 | | 75.94875 | |
| 09:52:25 | 636.1 | | 71.56125 | |
| 09:52:55 | 545.2 | | 61.335 | |
| 09:53:25 | 659.6 | | 74.205 | |
| 09:53:55 | 661.3 | | 74.39625 | |
| 09:54:25 | 676.5 | | 76.10625 | |
| 09:54:55 | 683.8 | | 76.9275 | |
| 09:55:25 | 672.4 | | 75.645 | |
| 09:55:55 | 694.6 | | 78.1425 | |
| 09:56:25 | 696.8 | | 78.39 | |
| 09:56:55 | 694.1 | | 78.08625 | |
| 09:57:25 | 676.8 | | 76.14 | |
| 09:57:55 | 670 | | 75.375 | |
| 09:58:25 | 676.8 | | 76.14 | |



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|----------|-------|--|----------|--|
| 09:58:55 | 652 | | 73.35 | |
| 09:59:25 | 681.1 | | 76.62375 | |
| 09:59:55 | 673.2 | | 75.735 | |
| 10:00:25 | 698.4 | | 78.57 | |
| 10:00:55 | 688.4 | | 77.445 | |
| 10:01:25 | 237.8 | | 26.7525 | |
| 10:01:55 | 289.9 | | 32.61375 | |
| 10:02:25 | 790.4 | | 88.92 | |
| 10:02:55 | 648.9 | | 73.00125 | |
| 10:03:25 | 767.6 | | 86.355 | |
| 10:03:55 | 776.4 | | 87.345 | |
| 10:04:25 | 772.8 | | 86.94 | |
| 10:04:55 | 759.5 | | 85.44375 | |
| 10:05:25 | 738.9 | | 83.12625 | |
| 10:05:55 | 727 | | 81.7875 | |
| 10:06:25 | 705.6 | | 79.38 | |
| 10:06:55 | 699.8 | | 78.7275 | |
| 10:07:25 | 710.6 | | 79.9425 | |
| 10:07:55 | 720.2 | | 81.0225 | |
| 10:08:25 | 730.2 | | 82.1475 | |
| 10:08:55 | 743 | | 83.5875 | |
| 10:09:25 | 753.2 | | 84.735 | |
| 10:09:55 | 769.2 | | 86.535 | |
| 10:10:25 | 750.3 | | 84.40875 | |
| 10:10:55 | 740.3 | | 83.28375 | |
| 10:11:25 | 712.3 | | 80.13375 | |
| 10:11:55 | 712.1 | | 80.11125 | |
| 10:12:25 | 705.8 | | 79.4025 | |
| 10:12:55 | 687.3 | | 77.32125 | |
| 10:13:25 | 712.6 | | 80.1675 | |
| 10:13:55 | 721.2 | | 81.135 | |
| 10:14:25 | 755.5 | | 84.99375 | |
| 10:14:55 | 825.2 | | 92.835 | |
| 10:15:25 | 443.4 | | 49.8825 | |
| 10:15:55 | 816.3 | | 91.83375 | |
| 10:16:25 | 793.7 | | 89.29125 | |
| 10:16:55 | 811.6 | | 91.305 | |
| 10:17:25 | 373.5 | | 42.01875 | |
| 10:17:55 | 697.9 | | 78.51375 | |
| 10:18:25 | 476.6 | | 53.6175 | |
| 10:18:55 | 208.7 | | 23.47875 | |
| 10:19:25 | 197 | | 22.1625 | |

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| 10:19:55 | 267.8 | | 30.1275 | |
| 10:20:25 | 815.6 | | 91.755 | |
| 10:20:55 | 532.7 | | 59.92875 | |
| 10:21:25 | 757.6 | | 85.23 | |
| 10:21:55 | 746.8 | | 84.015 | |
| 10:22:25 | 747.5 | | 84.09375 | |
| 10:22:55 | 746.8 | | 84.015 | |
| 10:23:25 | 730.8 | | 82.215 | |
| 10:23:55 | 730.5 | | 82.18125 | |
| 10:24:25 | 727.3 | | 81.82125 | |
| 10:24:55 | 723.1 | | 81.34875 | |
| 10:25:25 | 737 | | 82.9125 | |
| 10:25:55 | 714.8 | | 80.415 | |
| 10:26:25 | 721.5 | | 81.16875 | |
| 10:26:55 | 705.2 | | 79.335 | |
| 10:27:25 | 731.5 | | 82.29375 | |
| 10:27:55 | 715 | | 80.4375 | |
| 10:28:25 | 779.1 | | 87.64875 | |
| 10:28:55 | 783.6 | | 88.155 | |
| 10:29:25 | 764.6 | | 86.0175 | |
| 10:29:55 | 777.1 | | 87.42375 | |
| 10:30:25 | 782.8 | | 88.065 | |
| 10:30:55 | 791.6 | | 89.055 | |
| 10:31:25 | 784.2 | | 88.2225 | |
| 10:31:55 | 730.3 | | 82.15875 | |
| 10:32:25 | 739.1 | | 83.14875 | |
| 10:32:55 | 746 | | 83.925 | |
| 10:33:25 | 772.3 | | 86.88375 | |
| 10:33:55 | 745.6 | | 83.88 | |
| 10:34:25 | 795 | | 89.4375 | |
| 10:34:55 | 826 | | 92.925 | |
| 10:35:25 | 795.8 | | 89.5275 | |
| 10:35:55 | 784.7 | | 88.27875 | |
| 10:36:25 | 766.9 | | 86.27625 | |
| 10:36:55 | 605.7 | | 68.14125 | |
| 10:37:25 | 751.7 | | 84.56625 | |
| 10:37:55 | 765.8 | | 86.1525 | |
| 10:38:25 | 756.2 | | 85.0725 | |
| 10:38:55 | 756.6 | | 85.1175 | |
| 10:39:25 | 747.5 | | 84.09375 | |
| 10:39:55 | 763 | | 85.8375 | |
| 10:40:25 | 744.1 | | 83.71125 | |



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| 10:40:55 | 761.4 | | 85.6575 | |
| 10:41:25 | 763 | | 85.8375 | |
| 10:41:55 | 752.4 | | 84.645 | |
| 10:42:25 | 748.2 | | 84.1725 | |
| 10:42:55 | 757.7 | | 85.24125 | |
| 10:43:25 | 742.5 | | 83.53125 | |
| 10:43:55 | 744.4 | | 83.745 | |
| 10:44:25 | 760.9 | | 85.60125 | |
| 10:44:55 | 741.4 | | 83.4075 | |
| 10:45:25 | 747.8 | | 84.1275 | |
| 10:45:55 | 750.1 | | 84.38625 | |
| 10:46:25 | 743.7 | | 83.66625 | |
| 10:46:55 | 746.3 | | 83.95875 | |
| 10:47:25 | 763.8 | | 85.9275 | |
| 10:47:55 | 736.1 | | 82.81125 | |
| 10:48:25 | 754.9 | | 84.92625 | |
| 10:48:55 | 737 | | 82.9125 | |
| 10:49:25 | 738.1 | | 83.03625 | |
| 10:49:55 | 738.4 | | 83.07 | |
| 10:50:25 | 745.4 | | 83.8575 | |
| 10:50:55 | 739.2 | | 83.16 | |
| 10:51:25 | 695.2 | | 78.21 | |
| 10:51:55 | 481.2 | | 54.135 | |
| 10:52:25 | 696.6 | | 78.3675 | |
| 10:52:55 | 733.2 | | 82.485 | |
| 10:53:25 | 751.6 | | 84.555 | |
| 10:53:55 | 759.6 | | 85.455 | |
| 10:54:25 | 785.1 | | 88.32375 | |
| 10:54:55 | 788.2 | | 88.6725 | |
| 10:55:25 | 795 | | 89.4375 | |
| 10:55:55 | 790.8 | | 88.965 | |
| 10:56:25 | 798.8 | | 89.865 | |
| 10:56:55 | 778.5 | | 87.58125 | |
| 10:57:25 | 798.4 | | 89.82 | |
| 10:57:55 | 782 | | 87.975 | |
| 10:58:25 | 760.9 | | 85.60125 | |
| 10:58:55 | 766.3 | | 86.20875 | |
| 10:59:25 | 761.2 | | 85.635 | |
| 10:59:55 | 769.2 | | 86.535 | |
| 11:00:25 | 744.8 | | 83.79 | |
| 11:00:55 | 781.2 | | 87.885 | |
| 11:01:25 | 801.1 | | 90.12375 | |

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| 11:01:55 | 772.8 | | 86.94 | |
| 11:02:25 | 793.5 | | 89.26875 | |
| 11:02:55 | 766 | | 86.175 | |
| 11:03:25 | 787.4 | | 88.5825 | |
| 11:03:55 | 816 | | 91.8 | |
| 11:04:25 | 697.4 | | 78.4575 | |
| 11:04:55 | 843.4 | | 94.8825 | |
| 11:05:25 | 213.1 | | 23.97375 | |
| 11:05:55 | 199.2 | | 22.41 | |
| 11:06:25 | 846.3 | | 95.20875 | |
| 11:06:55 | 687.7 | | 77.36625 | |
| 11:07:25 | 788.6 | | 88.7175 | |
| 11:07:55 | 804.8 | | 90.54 | |
| 11:08:25 | 772.6 | | 86.9175 | |
| 11:08:55 | 800 | | 90 | |
| 11:09:25 | 795.1 | | 89.44875 | |
| 11:09:55 | 764.6 | | 86.0175 | |
| 11:10:25 | 771.4 | | 86.7825 | |
| 11:10:55 | 771.5 | | 86.79375 | |
| 11:11:25 | 759.2 | | 85.41 | |
| 11:11:55 | 781 | | 87.8625 | |
| 11:12:25 | 766 | | 86.175 | |
| 11:12:55 | 787.8 | | 88.6275 | |
| 11:13:25 | 777.9 | | 87.51375 | |
| 11:13:55 | 778.8 | | 87.615 | |
| 11:14:25 | 767.1 | | 86.29875 | |
| 11:14:55 | 769.8 | | 86.6025 | |
| 11:15:25 | 617.6 | | 69.48 | |
| 11:15:55 | 193.5 | | 21.76875 | |
| 11:16:25 | 367.2 | | 41.31 | |
| 11:16:55 | 822.5 | | 92.53125 | |
| 11:17:25 | 804.6 | | 90.5175 | |
| 11:17:55 | 830.3 | | 93.40875 | |
| 11:18:25 | 817.9 | | 92.01375 | |
| 11:18:55 | 810 | | 91.125 | |
| 11:19:25 | 678.6 | | 76.3425 | |
| 11:19:55 | 851.5 | | 95.79375 | |
| 11:20:25 | 361.7 | | 40.69125 | |
| 11:20:55 | 660.2 | | 74.2725 | |
| 11:21:25 | 275.2 | | 30.96 | |
| 11:21:55 | 880.3 | | 99.03375 | |
| 11:22:25 | 182.1 | | 20.48625 | |



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| 11:22:55 | 194.3 | | 21.85875 | |
| 11:23:25 | 847.9 | | 95.38875 | |
| 11:23:55 | 218 | | 24.525 | |
| 11:24:25 | 280.7 | | 31.57875 | |
| 11:24:55 | 898.9 | | 101.12625 | |
| 11:25:25 | 371 | | 41.7375 | |
| 11:25:55 | 907.1 | | 102.04875 | |
| 11:26:25 | 858 | | 96.525 | |
| 11:26:55 | 844.9 | | 95.05125 | |
| 11:27:25 | 865.4 | | 97.3575 | |
| 11:27:55 | 899.3 | | 101.17125 | |
| 11:28:25 | 904.4 | | 101.745 | |
| 11:28:55 | 913.7 | | 102.79125 | |
| 11:29:25 | 856.6 | | 96.3675 | |
| 11:29:55 | 898.4 | | 101.07 | |
| 11:30:25 | 872.2 | | 98.1225 | |
| 11:30:55 | 908.5 | | 102.20625 | |
| 11:31:25 | 921.7 | | 103.69125 | |
| 11:31:55 | 932.3 | | 104.88375 | |
| 11:32:25 | 951.9 | | 107.08875 | |
| 11:32:55 | 478.1 | | 53.78625 | |
| 11:33:25 | 949.2 | | 106.785 | |
| 11:33:55 | 968.4 | | 108.945 | |
| 11:34:25 | 858 | | 96.525 | |
| 11:34:55 | 941.6 | | 105.93 | |
| 11:35:25 | 906.6 | | 101.9925 | |
| 11:35:55 | 901.5 | | 101.41875 | |
| 11:36:25 | 279.5 | | 31.44375 | |
| 11:36:55 | 934.8 | | 105.165 | |
| 11:37:25 | 925.3 | | 104.09625 | |
| 11:37:55 | 821.6 | | 92.43 | |
| 11:38:25 | 634.2 | | 71.3475 | |
| 11:38:55 | 476.6 | | 53.6175 | |
| 11:39:25 | 883.5 | | 99.39375 | |
| 11:39:55 | 890.8 | | 100.215 | |
| 11:40:25 | 895.7 | | 100.76625 | |
| 11:40:55 | 865.9 | | 97.41375 | |
| 11:41:25 | 902.8 | | 101.565 | |
| 11:41:55 | 923.9 | | 103.93875 | |
| 11:42:25 | 1018 | | 114.525 | |
| 11:42:55 | 198.4 | | 22.32 | |
| 11:43:25 | 1024 | | 115.2 | |

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| 11:43:55 | 992 | | 111.6 | |
| 11:44:25 | 902.8 | | 101.565 | |
| 11:44:55 | 996.3 | | 112.08375 | |
| 11:45:25 | 344.2 | | 38.7225 | |
| 11:45:55 | 1010 | | 113.625 | |
| 11:46:25 | 665.7 | | 74.89125 | |
| 11:46:55 | 1050 | | 118.125 | |
| 11:47:25 | 1012 | | 113.85 | |
| 11:47:55 | 1014 | | 114.075 | |
| 11:48:25 | 915.8 | | 103.0275 | |
| 11:48:55 | 287.2 | | 32.31 | |
| 11:49:25 | 1016 | | 114.3 | |
| 11:49:55 | 1002 | | 112.725 | |
| 11:50:25 | 882.1 | | 99.23625 | |
| 11:50:55 | 1036 | | 116.55 | |
| 11:51:25 | 938 | | 105.525 | |
| 11:51:55 | 1006 | | 113.175 | |
| 11:52:25 | 1033 | | 116.2125 | |
| 11:52:55 | 1090 | | 122.625 | |
| 11:53:25 | 327.9 | | 36.88875 | |
| 11:53:55 | 1028 | | 115.65 | |
| 11:54:25 | 798.1 | | 89.78625 | |
| 11:54:55 | 306.1 | | 34.43625 | |
| 11:55:25 | 269.5 | | 30.31875 | |
| 11:55:55 | 417.4 | | 46.9575 | |
| 11:56:25 | 361.8 | | 40.7025 | |
| 11:56:55 | 734.8 | | 82.665 | |
| 11:57:25 | 250.5 | | 28.18125 | |
| 11:57:55 | 824.6 | | 92.7675 | |
| 11:58:25 | 1005 | | 113.0625 | |
| 11:58:55 | 1011 | | 113.7375 | |
| 11:59:25 | 1027 | | 115.5375 | |
| 11:59:55 | 253.8 | | 28.5525 | |
| 12:00:25 | 330.6 | | 37.1925 | |
| 12:00:55 | 1042 | | 117.225 | |
| 12:01:25 | 1050 | | 118.125 | |
| 12:01:55 | 964.1 | | 108.46125 | |
| 12:02:25 | 283.9 | | 31.93875 | |
| 12:02:55 | 1017 | | 114.4125 | |
| 12:03:25 | 1053 | | 118.4625 | |
| 12:03:55 | 1023 | | 115.0875 | |
| 12:04:25 | 1052 | | 118.35 | |



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| 12:04:55 | 1018 | | 114.525 | |
| 12:05:25 | 990.4 | | 111.42 | |
| 12:05:55 | 959.7 | | 107.96625 | |
| 12:06:25 | 664.8 | | 74.79 | |
| 12:06:55 | 902.5 | | 101.53125 | |
| 12:07:25 | 897.4 | | 100.9575 | |
| 12:07:55 | 921.3 | | 103.64625 | |
| 12:08:25 | 896.5 | | 100.85625 | |
| 12:08:55 | 879.1 | | 98.89875 | |
| 12:09:25 | 946.7 | | 106.50375 | |
| 12:09:55 | 932.7 | | 104.92875 | |
| 12:10:25 | 907.9 | | 102.13875 | |
| 12:10:55 | 924 | | 103.95 | |
| 12:11:25 | 909.6 | | 102.33 | |
| 12:11:55 | 971.9 | | 109.33875 | |
| 12:12:25 | 932 | | 104.85 | |
| 12:12:55 | 905.8 | | 101.9025 | |
| 12:13:25 | 884.9 | | 99.55125 | |
| 12:13:55 | 896.5 | | 100.85625 | |
| 12:14:25 | 903.3 | | 101.62125 | |
| 12:14:55 | 902.7 | | 101.55375 | |
| 12:15:25 | 906.1 | | 101.93625 | |
| 12:15:55 | 907.2 | | 102.06 | |
| 12:16:25 | 928.5 | | 104.45625 | |
| 12:16:55 | 876.8 | | 98.64 | |
| 12:17:25 | 878.6 | | 98.8425 | |
| 12:17:55 | 899.5 | | 101.19375 | |
| 12:18:25 | 913.3 | | 102.74625 | |
| 12:18:55 | 885.7 | | 99.64125 | |
| 12:19:25 | 887.6 | | 99.855 | |
| 12:19:55 | 854.7 | | 96.15375 | |
| 12:20:25 | 894.1 | | 100.58625 | |
| 12:20:55 | 865.1 | | 97.32375 | |
| 12:21:25 | 936.7 | | 105.37875 | |
| 12:21:55 | 906.1 | | 101.93625 | |
| 12:22:25 | 921.5 | | 103.66875 | |
| 12:22:55 | 871 | | 97.9875 | |
| 12:23:25 | 885.1 | | 99.57375 | |
| 12:23:55 | 894.6 | | 100.6425 | |
| 12:24:25 | 916.6 | | 103.1175 | |
| 12:24:55 | 905.7 | | 101.89125 | |
| 12:25:25 | 878.4 | | 98.82 | |

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| 12:25:55 | 887.1 | | 99.79875 | |
| 12:26:25 | 888.6 | | 99.9675 | |
| 12:26:55 | 886.3 | | 99.70875 | |
| 12:27:25 | 907.4 | | 102.0825 | |
| 12:27:55 | 900.1 | | 101.26125 | |
| 12:28:25 | 852.1 | | 95.86125 | |
| 12:28:55 | 850.4 | | 95.67 | |
| 12:29:25 | 861.6 | | 96.93 | |
| 12:29:55 | 832.5 | | 93.65625 | |
| 12:30:25 | 865.8 | | 97.4025 | |
| 12:30:55 | 854.8 | | 96.165 | |
| 12:31:25 | 925.1 | | 104.07375 | |
| 12:31:55 | 913.1 | | 102.72375 | |
| 12:32:25 | 938.3 | | 105.55875 | |
| 12:32:55 | 498.3 | | 56.05875 | |
| 12:33:25 | 952.2 | | 107.1225 | |
| 12:33:55 | 904.4 | | 101.745 | |
| 12:34:25 | 874.9 | | 98.42625 | |
| 12:34:55 | 868.9 | | 97.75125 | |
| 12:35:25 | 819 | | 92.1375 | |
| 12:35:55 | 799.4 | | 89.9325 | |
| 12:36:25 | 829 | | 93.2625 | |
| 12:36:55 | 862.6 | | 97.0425 | |
| 12:37:25 | 921.5 | | 103.66875 | |
| 12:37:55 | 876.2 | | 98.5725 | |
| 12:38:25 | 951 | | 106.9875 | |
| 12:38:55 | 900.4 | | 101.295 | |
| 12:39:25 | 860.4 | | 96.795 | |
| 12:39:55 | 853.9 | | 96.06375 | |
| 12:40:25 | 887.6 | | 99.855 | |
| 12:40:55 | 895.2 | | 100.71 | |
| 12:41:25 | 886.7 | | 99.75375 | |
| 12:41:55 | 864.3 | | 97.23375 | |
| 12:42:25 | 811.8 | | 91.3275 | |
| 12:42:55 | 885.1 | | 99.57375 | |
| 12:43:25 | 871.3 | | 98.02125 | |
| 12:43:55 | 856.1 | | 96.31125 | |
| 12:44:25 | 890.8 | | 100.215 | |
| 12:44:55 | 945.7 | | 106.39125 | |
| 12:45:25 | 941.9 | | 105.96375 | |
| 12:45:55 | 829.5 | | 93.31875 | |
| 12:46:25 | 884.4 | | 99.495 | |



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| 12:46:55 | 855.6 | | 96.255 | |
| 12:47:25 | 838.7 | | 94.35375 | |
| 12:47:55 | 880.8 | | 99.09 | |
| 12:48:25 | 853.6 | | 96.03 | |
| 12:48:55 | 900.3 | | 101.28375 | |
| 12:49:25 | 830.9 | | 93.47625 | |
| 12:49:55 | 725.4 | | 81.6075 | |
| 12:50:25 | 865.4 | | 97.3575 | |
| 12:50:55 | 871.6 | | 98.055 | |
| 12:51:25 | 861.3 | | 96.89625 | |
| 12:51:55 | 925.1 | | 104.07375 | |
| 12:52:25 | 919.4 | | 103.4325 | |
| 12:52:55 | 869.1 | | 97.77375 | |
| 12:53:25 | 933.1 | | 104.97375 | |
| 12:53:55 | 869.4 | | 97.8075 | |
| 12:54:25 | 902.5 | | 101.53125 | |
| 12:54:55 | 873.4 | | 98.2575 | |
| 12:55:25 | 913.1 | | 102.72375 | |
| 12:55:55 | 188.1 | | 21.16125 | |
| 12:56:25 | 162.8 | | 18.315 | |
| 12:56:55 | 948.6 | | 106.7175 | |
| 12:57:25 | 923.6 | | 103.905 | |
| 12:57:55 | 983.7 | | 110.66625 | |
| 12:58:25 | 794.2 | | 89.3475 | |
| 12:58:55 | 874.8 | | 98.415 | |
| 12:59:25 | 913.9 | | 102.81375 | |
| 12:59:55 | 960.9 | | 108.10125 | |
| 13:00:25 | 913.6 | | 102.78 | |
| 13:00:55 | 920.9 | | 103.60125 | |
| 13:01:25 | 880.8 | | 99.09 | |
| 13:01:55 | 182.9 | | 20.57625 | |
| 13:02:25 | 156.1 | | 17.56125 | |
| 13:02:55 | 841.7 | | 94.69125 | |
| 13:03:25 | 955.1 | | 107.44875 | |
| 13:03:55 | 918.3 | | 103.30875 | |
| 13:04:25 | 564.9 | | 63.55125 | |
| 13:04:55 | 858.2 | | 96.5475 | |
| 13:05:25 | 771.7 | | 86.81625 | |
| 13:05:55 | 926.7 | | 104.25375 | |
| 13:06:25 | 860.1 | | 96.76125 | |
| 13:06:55 | 854.2 | | 96.0975 | |
| 13:07:25 | 853.6 | | 96.03 | |

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| 13:07:55 | 826.8 | | 93.015 | |
| 13:08:25 | 932.4 | | 104.895 | |
| 13:08:55 | 863.9 | | 97.18875 | |
| 13:09:25 | 857.2 | | 96.435 | |
| 13:09:55 | 836.3 | | 94.08375 | |
| 13:10:25 | 936.4 | | 105.345 | |
| 13:10:55 | 890.1 | | 100.13625 | |
| 13:11:25 | 902.8 | | 101.565 | |
| 13:11:55 | 877.8 | | 98.7525 | |
| 13:12:25 | 884.1 | | 99.46125 | |
| 13:12:55 | 878 | | 98.775 | |
| 13:13:25 | 848 | | 95.4 | |
| 13:13:55 | 870.2 | | 97.8975 | |
| 13:14:25 | 832.7 | | 93.67875 | |
| 13:14:55 | 814.6 | | 91.6425 | |
| 13:15:25 | 914.1 | | 102.83625 | |
| 13:15:55 | 888.2 | | 99.9225 | |
| 13:16:25 | 829.6 | | 93.33 | |
| 13:16:55 | 822.8 | | 92.565 | |
| 13:17:25 | 806.5 | | 90.73125 | |
| 13:17:55 | 812.4 | | 91.395 | |
| 13:18:25 | 857.2 | | 96.435 | |
| 13:18:55 | 841.2 | | 94.635 | |
| 13:19:25 | 674.4 | | 75.87 | |
| 13:19:55 | 861.6 | | 96.93 | |
| 13:20:25 | 800.3 | | 90.03375 | |
| 13:20:55 | 472.4 | | 53.145 | |
| 13:21:25 | 872.9 | | 98.20125 | |
| 13:21:55 | 831.9 | | 93.58875 | |
| 13:22:25 | 842.8 | | 94.815 | |
| 13:22:55 | 835.7 | | 94.01625 | |
| 13:23:25 | 889 | | 100.0125 | |
| 13:23:55 | 849.3 | | 95.54625 | |
| 13:24:25 | 864.6 | | 97.2675 | |
| 13:24:55 | 786.6 | | 88.4925 | |
| 13:25:25 | 874.8 | | 98.415 | |
| 13:25:55 | 816.3 | | 91.83375 | |
| 13:26:25 | 853.7 | | 96.04125 | |
| 13:26:55 | 856.4 | | 96.345 | |
| 13:27:25 | 851 | | 95.7375 | |
| 13:27:55 | 812.1 | | 91.36125 | |
| 13:28:25 | 758.9 | | 85.37625 | |



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|----------|-------|--|-----------|--|
| 13:28:55 | 790.2 | | 88.8975 | |
| 13:29:25 | 753.8 | | 84.8025 | |
| 13:29:55 | 842.2 | | 94.7475 | |
| 13:30:25 | 707.5 | | 79.59375 | |
| 13:30:55 | 820.5 | | 92.30625 | |
| 13:31:25 | 796.5 | | 89.60625 | |
| 13:31:55 | 814.3 | | 91.60875 | |
| 13:32:25 | 799.6 | | 89.955 | |
| 13:32:55 | 811.3 | | 91.27125 | |
| 13:33:25 | 754.4 | | 84.87 | |
| 13:33:55 | 773 | | 86.9625 | |
| 13:34:25 | 808.1 | | 90.91125 | |
| 13:34:55 | 821.7 | | 92.44125 | |
| 13:35:25 | 831.9 | | 93.58875 | |
| 13:35:55 | 808.6 | | 90.9675 | |
| 13:36:25 | 777.4 | | 87.4575 | |
| 13:36:55 | 802.2 | | 90.2475 | |
| 13:37:25 | 817.1 | | 91.92375 | |
| 13:37:55 | 815.4 | | 91.7325 | |
| 13:38:25 | 828.1 | | 93.16125 | |
| 13:38:55 | 824.4 | | 92.745 | |
| 13:39:25 | 807.2 | | 90.81 | |
| 13:39:55 | 780.1 | | 87.76125 | |
| 13:40:25 | 661.5 | | 74.41875 | |
| 13:40:55 | 729.6 | | 82.08 | |
| 13:41:25 | 780.6 | | 87.8175 | |
| 13:41:55 | 790.7 | | 88.95375 | |
| 13:42:25 | 780.9 | | 87.85125 | |
| 13:42:55 | 773.4 | | 87.0075 | |
| 13:43:25 | 773.1 | | 86.97375 | |
| 13:43:55 | 774.5 | | 87.13125 | |
| 13:44:25 | 746.7 | | 84.00375 | |
| 13:44:55 | 808.9 | | 91.00125 | |
| 13:45:25 | 823.9 | | 92.68875 | |
| 13:45:55 | 292.6 | | 32.9175 | |
| 13:46:25 | 830.8 | | 93.465 | |
| 13:46:55 | 314.9 | | 35.42625 | |
| 13:47:25 | 821.3 | | 92.39625 | |
| 13:47:55 | 229.3 | | 25.79625 | |
| 13:48:25 | 457.5 | | 51.46875 | |
| 13:48:55 | 253 | | 28.4625 | |
| 13:49:25 | 907.1 | | 102.04875 | |

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| 13:49:55 | 866.5 | | 97.48125 | |
| 13:50:25 | 824.6 | | 92.7675 | |
| 13:50:55 | 851 | | 95.7375 | |
| 13:51:25 | 852.9 | | 95.95125 | |
| 13:51:55 | 853.6 | | 96.03 | |
| 13:52:25 | 844.5 | | 95.00625 | |
| 13:52:55 | 866.7 | | 97.50375 | |
| 13:53:25 | 729.6 | | 82.08 | |
| 13:53:55 | 834.2 | | 93.8475 | |
| 13:54:25 | 219.6 | | 24.705 | |
| 13:54:55 | 360.6 | | 40.5675 | |
| 13:55:25 | 819.4 | | 92.1825 | |
| 13:55:55 | 668.6 | | 75.2175 | |
| 13:56:25 | 849.3 | | 95.54625 | |
| 13:56:55 | 733.4 | | 82.5075 | |
| 13:57:25 | 754.4 | | 84.87 | |
| 13:57:55 | 801.9 | | 90.21375 | |
| 13:58:25 | 808 | | 90.9 | |
| 13:58:55 | 847.2 | | 95.31 | |
| 13:59:25 | 812.7 | | 91.42875 | |
| 13:59:55 | 806.4 | | 90.72 | |
| 14:00:25 | 802.1 | | 90.23625 | |
| 14:00:55 | 384.8 | | 43.29 | |
| 14:01:25 | 779.1 | | 87.64875 | |
| 14:01:55 | 663.7 | | 74.66625 | |
| 14:02:25 | 329.8 | | 37.1025 | |
| 14:02:55 | 747.3 | | 84.07125 | |
| 14:03:25 | 642.9 | | 72.32625 | |
| 14:03:55 | 732.6 | | 82.4175 | |
| 14:04:25 | 725.3 | | 81.59625 | |
| 14:04:55 | 727.2 | | 81.81 | |
| 14:05:25 | 708.3 | | 79.68375 | |
| 14:05:55 | 690.8 | | 77.715 | |
| 14:06:25 | 721.2 | | 81.135 | |
| 14:06:55 | 734.5 | | 82.63125 | |
| Average | 752.3 | | 84.63384698 | |



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Appendix Table 5, Daily solar irradiance 22 June 2019

| | | | | |
|------------|--------------------|-------------------|------------|------------|
| Site Name: | Tambolongan Strait | Date: | 22/06/2019 | Equipment: |
| Location: | | | | |
| | Lat: -6.6456739 | Long: 120.4305870 | | |
| Elevation: | + 1 meter | Time Zone: | WITA | |

| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark |
|----------|--|----------------------------------|---|--------|
| 09:43:28 | 683.2 | | 76.86 | |
| 09:43:58 | 685.1 | | 77.07375 | |
| 09:44:28 | 679.4 | | 76.4325 | |
| 09:44:58 | 683.9 | | 76.93875 | |
| 09:45:28 | 691.1 | | 77.74875 | |
| 09:45:58 | 691.5 | | 77.79375 | |
| 09:46:28 | 690 | | 77.625 | |
| 09:46:58 | 694.2 | | 78.0975 | |
| 09:47:28 | 691.4 | | 77.7825 | |
| 09:47:58 | 687.6 | | 77.355 | |
| 09:48:28 | 689 | | 77.5125 | |
| 09:48:58 | 690.8 | | 77.715 | |
| 09:49:28 | 690 | | 77.625 | |
| 09:49:58 | 690.3 | | 77.65875 | |
| 09:50:28 | 695.8 | | 78.2775 | |
| 09:50:58 | 704.9 | | 79.30125 | |
| 09:51:28 | 706.4 | | 79.47 | |
| 09:51:58 | 704.5 | | 79.25625 | |
| 09:52:28 | 708.8 | | 79.74 | |
| 09:52:58 | 703.4 | | 79.1325 | |
| 09:53:28 | 709.6 | | 79.83 | |
| 09:53:58 | 709.9 | | 79.86375 | |
| 09:54:28 | 705.3 | | 79.34625 | |
| 09:54:58 | 714.8 | | 80.415 | |
| 09:55:28 | 710.6 | | 79.9425 | |
| 09:55:58 | 715 | | 80.4375 | |
| 09:56:28 | 720.4 | | 81.045 | |
| 09:56:58 | 716.1 | | 80.56125 | |
| 09:57:28 | 711.7 | | 80.06625 | |
| 09:57:58 | 716.3 | | 80.58375 | |
| 09:58:28 | 712.8 | | 80.19 | |
| 09:58:58 | 717 | | 80.6625 | |
| 09:59:28 | 732.1 | | 82.36125 | |

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|----------|-------|--|----------|--|
| 09:59:58 | 738.3 | | 83.05875 | |
| 10:00:28 | 750 | | 84.375 | |
| 10:00:58 | 748.1 | | 84.16125 | |
| 10:01:28 | 753.3 | | 84.74625 | |
| 10:01:58 | 750.6 | | 84.4425 | |
| 10:02:28 | 751.7 | | 84.56625 | |
| 10:02:58 | 751.7 | | 84.56625 | |
| 10:03:28 | 744 | | 83.7 | |
| 10:03:58 | 748.2 | | 84.1725 | |
| 10:04:28 | 749.4 | | 84.3075 | |
| 10:04:58 | 744.6 | | 83.7675 | |
| 10:05:28 | 757.1 | | 85.17375 | |
| 10:05:58 | 747.9 | | 84.13875 | |
| 10:06:28 | 753 | | 84.7125 | |
| 10:06:58 | 741.1 | | 83.37375 | |
| 10:07:28 | 734.9 | | 82.67625 | |
| 10:07:58 | 748.4 | | 84.195 | |
| 10:08:28 | 752 | | 84.6 | |
| 10:08:58 | 756.2 | | 85.0725 | |
| 10:09:28 | 763.4 | | 85.8825 | |
| 10:09:58 | 751.4 | | 84.5325 | |
| 10:10:28 | 744 | | 83.7 | |
| 10:10:58 | 752.4 | | 84.645 | |
| 10:11:28 | 753.6 | | 84.78 | |
| 10:11:58 | 757.6 | | 85.23 | |
| 10:12:28 | 771.1 | | 86.74875 | |
| 10:12:58 | 772 | | 86.85 | |
| 10:13:28 | 764.4 | | 85.995 | |
| 10:13:58 | 807.2 | | 90.81 | |
| 10:14:28 | 776.8 | | 87.39 | |
| 10:14:58 | 794.6 | | 89.3925 | |
| 10:15:28 | 783.1 | | 88.09875 | |
| 10:15:58 | 763.3 | | 85.87125 | |
| 10:16:28 | 785.8 | | 88.4025 | |
| 10:16:58 | 783.4 | | 88.1325 | |
| 10:17:28 | 803 | | 90.3375 | |
| 10:17:58 | 776.4 | | 87.345 | |
| 10:18:28 | 793.2 | | 89.235 | |
| 10:18:58 | 801.3 | | 90.14625 | |
| 10:19:28 | 804.8 | | 90.54 | |
| 10:19:58 | 776.1 | | 87.31125 | |
| 10:20:28 | 765.8 | | 86.1525 | |



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|----------|-------|--|----------|--|
| 10:20:58 | 775.8 | | 87.2775 | |
| 10:21:28 | 808.1 | | 90.91125 | |
| 10:21:58 | 765.5 | | 86.11875 | |
| 10:22:28 | 786.7 | | 88.50375 | |
| 10:22:58 | 782 | | 87.975 | |
| 10:23:28 | 809.5 | | 91.06875 | |
| 10:23:58 | 786.7 | | 88.50375 | |
| 10:24:28 | 801.6 | | 90.18 | |
| 10:24:58 | 783.6 | | 88.155 | |
| 10:25:28 | 798.3 | | 89.80875 | |
| 10:25:58 | 817.5 | | 91.96875 | |
| 10:26:28 | 806.4 | | 90.72 | |
| 10:26:58 | 804 | | 90.45 | |
| 10:27:28 | 799.4 | | 89.9325 | |
| 10:27:58 | 786.3 | | 88.45875 | |
| 10:28:28 | 794.2 | | 89.3475 | |
| 10:28:58 | 819.4 | | 92.1825 | |
| 10:29:28 | 799.9 | | 89.98875 | |
| 10:29:58 | 776.6 | | 87.3675 | |
| 10:30:28 | 761.2 | | 85.635 | |
| 10:30:58 | 764.2 | | 85.9725 | |
| 10:31:28 | 765.5 | | 86.11875 | |
| 10:31:58 | 794.3 | | 89.35875 | |
| 10:32:28 | 783.7 | | 88.16625 | |
| 10:32:58 | 766.9 | | 86.27625 | |
| 10:33:28 | 798 | | 89.775 | |
| 10:33:58 | 780.1 | | 87.76125 | |
| 10:34:28 | 767.6 | | 86.355 | |
| 10:34:58 | 779.1 | | 87.64875 | |
| 10:35:28 | 766.9 | | 86.27625 | |
| 10:35:58 | 760.4 | | 85.545 | |
| 10:36:28 | 795.6 | | 89.505 | |
| 10:36:58 | 786.7 | | 88.50375 | |
| 10:37:28 | 783.9 | | 88.18875 | |
| 10:37:58 | 782.9 | | 88.07625 | |
| 10:38:28 | 773.7 | | 87.04125 | |
| 10:38:58 | 800 | | 90 | |
| 10:39:28 | 795.8 | | 89.5275 | |
| 10:39:58 | 788.8 | | 88.74 | |
| 10:40:28 | 807.2 | | 90.81 | |
| 10:40:58 | 792.6 | | 89.1675 | |
| 10:41:28 | 780.7 | | 87.82875 | |

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|----------|-------|--|----------|--|
| 10:41:58 | 820.9 | | 92.35125 | |
| 10:42:28 | 842.8 | | 94.815 | |
| 10:42:58 | 827.6 | | 93.105 | |
| 10:43:28 | 836.6 | | 94.1175 | |
| 10:43:58 | 837.9 | | 94.26375 | |
| 10:44:28 | 827.1 | | 93.04875 | |
| 10:44:58 | 823.6 | | 92.655 | |
| 10:45:28 | 812.4 | | 91.395 | |
| 10:45:58 | 816.7 | | 91.87875 | |
| 10:46:28 | 813.7 | | 91.54125 | |
| 10:46:58 | 820.6 | | 92.3175 | |
| 10:47:28 | 834.2 | | 93.8475 | |
| 10:47:58 | 814.8 | | 91.665 | |
| 10:48:28 | 803.5 | | 90.39375 | |
| 10:48:58 | 833.3 | | 93.74625 | |
| 10:49:28 | 823.6 | | 92.655 | |
| 10:49:58 | 802.9 | | 90.32625 | |
| 10:50:28 | 819.8 | | 92.2275 | |
| 10:50:58 | 829 | | 93.2625 | |
| 10:51:28 | 829.5 | | 93.31875 | |
| 10:51:58 | 840.7 | | 94.57875 | |
| 10:52:28 | 822 | | 92.475 | |
| 10:52:58 | 841.1 | | 94.62375 | |
| 10:53:28 | 832.8 | | 93.69 | |
| 10:53:58 | 817.6 | | 91.98 | |
| 10:54:28 | 835.2 | | 93.96 | |
| 10:54:58 | 837.1 | | 94.17375 | |
| 10:55:28 | 849.4 | | 95.5575 | |
| 10:55:58 | 838.2 | | 94.2975 | |
| 10:56:28 | 827.1 | | 93.04875 | |
| 10:56:58 | 834.4 | | 93.87 | |
| 10:57:28 | 849.1 | | 95.52375 | |
| 10:57:58 | 844.7 | | 95.02875 | |
| 10:58:28 | 840.6 | | 94.5675 | |
| 10:58:58 | 841.1 | | 94.62375 | |
| 10:59:28 | 834.6 | | 93.8925 | |
| 10:59:58 | 838 | | 94.275 | |
| 11:00:28 | 843.6 | | 94.905 | |
| 11:00:58 | 859.9 | | 96.73875 | |
| 11:01:28 | 849.4 | | 95.5575 | |
| 11:01:58 | 836.8 | | 94.14 | |
| 11:02:28 | 844.1 | | 94.96125 | |



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|----------|-------|--|----------|--|
| 11:02:58 | 812.7 | | 91.42875 | |
| 11:03:28 | 831.5 | | 93.54375 | |
| 11:03:58 | 839.9 | | 94.48875 | |
| 11:04:28 | 831.7 | | 93.56625 | |
| 11:04:58 | 829.5 | | 93.31875 | |
| 11:05:28 | 831.7 | | 93.56625 | |
| 11:05:58 | 840.6 | | 94.5675 | |
| 11:06:28 | 820.1 | | 92.26125 | |
| 11:06:58 | 829.2 | | 93.285 | |
| 11:07:28 | 831.7 | | 93.56625 | |
| 11:07:58 | 853.6 | | 96.03 | |
| 11:08:28 | 842.2 | | 94.7475 | |
| 11:08:58 | 824.4 | | 92.745 | |
| 11:09:28 | 834.4 | | 93.87 | |
| 11:09:58 | 848.3 | | 95.43375 | |
| 11:10:28 | 854.2 | | 96.0975 | |
| 11:10:58 | 844.9 | | 95.05125 | |
| 11:11:28 | 839.6 | | 94.455 | |
| 11:11:58 | 850.7 | | 95.70375 | |
| 11:12:28 | 845.6 | | 95.13 | |
| 11:12:58 | 847.9 | | 95.38875 | |
| 11:13:28 | 853.4 | | 96.0075 | |
| 11:13:58 | 837.9 | | 94.26375 | |
| 11:14:28 | 839.6 | | 94.455 | |
| 11:14:58 | 838.5 | | 94.33125 | |
| 11:15:28 | 848.2 | | 95.4225 | |
| 11:15:58 | 858 | | 96.525 | |
| 11:16:28 | 844.5 | | 95.00625 | |
| 11:16:58 | 846.6 | | 95.2425 | |
| 11:17:28 | 846.4 | | 95.22 | |
| 11:17:58 | 839.5 | | 94.44375 | |
| 11:18:28 | 853.6 | | 96.03 | |
| 11:18:58 | 855 | | 96.1875 | |
| 11:19:28 | 857.2 | | 96.435 | |
| 11:19:58 | 849.4 | | 95.5575 | |
| 11:20:28 | 854 | | 96.075 | |
| 11:20:58 | 851.5 | | 95.79375 | |
| 11:21:28 | 861.8 | | 96.9525 | |
| 11:21:58 | 857.4 | | 96.4575 | |
| 11:22:28 | 859.7 | | 96.71625 | |
| 11:22:58 | 858.9 | | 96.62625 | |
| 11:23:28 | 853.7 | | 96.04125 | |

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| 11:23:58 | 864.2 | | 97.2225 | |
| 11:24:28 | 851.2 | | 95.76 | |
| 11:24:58 | 868.9 | | 97.75125 | |
| 11:25:28 | 850.6 | | 95.6925 | |
| 11:25:58 | 854 | | 96.075 | |
| 11:26:28 | 850.4 | | 95.67 | |
| 11:26:58 | 857 | | 96.4125 | |
| 11:27:28 | 860.8 | | 96.84 | |
| 11:27:58 | 855.1 | | 96.19875 | |
| 11:28:28 | 854.8 | | 96.165 | |
| 11:28:58 | 885.9 | | 99.66375 | |
| 11:29:28 | 874 | | 98.325 | |
| 11:29:58 | 864 | | 97.2 | |
| 11:30:28 | 862.6 | | 97.0425 | |
| 11:30:58 | 871.1 | | 97.99875 | |
| 11:31:28 | 885.1 | | 99.57375 | |
| 11:31:58 | 885.1 | | 99.57375 | |
| 11:32:28 | 868 | | 97.65 | |
| 11:32:58 | 891.3 | | 100.27125 | |
| 11:33:28 | 883.2 | | 99.36 | |
| 11:33:58 | 882.7 | | 99.30375 | |
| 11:34:28 | 867.2 | | 97.56 | |
| 11:34:58 | 897.9 | | 101.01375 | |
| 11:35:28 | 887.9 | | 99.88875 | |
| 11:35:58 | 888.4 | | 99.945 | |
| 11:36:28 | 867 | | 97.5375 | |
| 11:36:58 | 892.8 | | 100.44 | |
| 11:37:28 | 879.4 | | 98.9325 | |
| 11:37:58 | 875.3 | | 98.47125 | |
| 11:38:28 | 878.4 | | 98.82 | |
| 11:38:58 | 876.2 | | 98.5725 | |
| 11:39:28 | 884.8 | | 99.54 | |
| 11:39:58 | 874.6 | | 98.3925 | |
| 11:40:28 | 890.6 | | 100.1925 | |
| 11:40:58 | 886 | | 99.675 | |
| 11:41:28 | 879.4 | | 98.9325 | |
| 11:41:58 | 877.3 | | 98.69625 | |
| 11:42:28 | 873.4 | | 98.2575 | |
| 11:42:58 | 883.2 | | 99.36 | |
| 11:43:28 | 882.9 | | 99.32625 | |
| 11:43:58 | 888.6 | | 99.9675 | |
| 11:44:28 | 861.3 | | 96.89625 | |



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|----------|-------|--|-----------|--|
| 11:44:58 | 852.6 | | 95.9175 | |
| 11:45:28 | 884.4 | | 99.495 | |
| 11:45:58 | 868.3 | | 97.68375 | |
| 11:46:28 | 882.5 | | 99.28125 | |
| 11:46:58 | 876.2 | | 98.5725 | |
| 11:47:28 | 876.7 | | 98.62875 | |
| 11:47:58 | 862.6 | | 97.0425 | |
| 11:48:28 | 877.6 | | 98.73 | |
| 11:48:58 | 885.7 | | 99.64125 | |
| 11:49:28 | 878.1 | | 98.78625 | |
| 11:49:58 | 894.4 | | 100.62 | |
| 11:50:28 | 894.3 | | 100.60875 | |
| 11:50:58 | 894.1 | | 100.58625 | |
| 11:51:28 | 893.2 | | 100.485 | |
| 11:51:58 | 890.9 | | 100.22625 | |
| 11:52:28 | 889 | | 100.0125 | |
| 11:52:58 | 883.2 | | 99.36 | |
| 11:53:28 | 868.1 | | 97.66125 | |
| 11:53:58 | 878.1 | | 98.78625 | |
| 11:54:28 | 879.5 | | 98.94375 | |
| 11:54:58 | 870.8 | | 97.965 | |
| 11:55:28 | 876.7 | | 98.62875 | |
| 11:55:58 | 888.6 | | 99.9675 | |
| 11:56:28 | 870.3 | | 97.90875 | |
| 11:56:58 | 879.7 | | 98.96625 | |
| 11:57:28 | 890.9 | | 100.22625 | |
| 11:57:58 | 876.7 | | 98.62875 | |
| 11:58:28 | 861.5 | | 96.91875 | |
| 11:58:58 | 877 | | 98.6625 | |
| 11:59:28 | 888.9 | | 100.00125 | |
| 11:59:58 | 884.8 | | 99.54 | |
| 12:00:28 | 891.1 | | 100.24875 | |
| 12:00:58 | 869.4 | | 97.8075 | |
| 12:01:28 | 872.6 | | 98.1675 | |
| 12:01:58 | 877.3 | | 98.69625 | |
| 12:02:28 | 888.6 | | 99.9675 | |
| 12:02:58 | 881.4 | | 99.1575 | |
| 12:03:28 | 885.1 | | 99.57375 | |
| 12:03:58 | 876.7 | | 98.62875 | |
| 12:04:28 | 879.2 | | 98.91 | |
| 12:04:58 | 892.7 | | 100.42875 | |
| 12:05:28 | 875.9 | | 98.53875 | |

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|----------|-------|--|-----------|--|
| 12:05:58 | 876.5 | | 98.60625 | |
| 12:06:28 | 879.2 | | 98.91 | |
| 12:06:58 | 888.4 | | 99.945 | |
| 12:07:28 | 874 | | 98.325 | |
| 12:07:58 | 865.8 | | 97.4025 | |
| 12:08:28 | 877 | | 98.6625 | |
| 12:08:58 | 870.7 | | 97.95375 | |
| 12:09:28 | 885.6 | | 99.63 | |
| 12:09:58 | 884.4 | | 99.495 | |
| 12:10:28 | 893.8 | | 100.5525 | |
| 12:10:58 | 885.4 | | 99.6075 | |
| 12:11:28 | 870.7 | | 97.95375 | |
| 12:11:58 | 877.5 | | 98.71875 | |
| 12:12:28 | 870.2 | | 97.8975 | |
| 12:12:58 | 891.4 | | 100.2825 | |
| 12:13:28 | 884.9 | | 99.55125 | |
| 12:13:58 | 874.5 | | 98.38125 | |
| 12:14:28 | 883.5 | | 99.39375 | |
| 12:14:58 | 871 | | 97.9875 | |
| 12:15:28 | 890.5 | | 100.18125 | |
| 12:15:58 | 877.5 | | 98.71875 | |
| 12:16:28 | 878.7 | | 98.85375 | |
| 12:16:58 | 875.1 | | 98.44875 | |
| 12:17:28 | 866.7 | | 97.50375 | |
| 12:17:58 | 884.3 | | 99.48375 | |
| 12:18:28 | 890.5 | | 100.18125 | |
| 12:18:58 | 880.6 | | 99.0675 | |
| 12:19:28 | 877.3 | | 98.69625 | |
| 12:19:58 | 875.4 | | 98.4825 | |
| 12:20:28 | 896.5 | | 100.85625 | |
| 12:20:58 | 882.7 | | 99.30375 | |
| 12:21:28 | 886.2 | | 99.6975 | |
| 12:21:58 | 877.2 | | 98.685 | |
| 12:22:28 | 866.4 | | 97.47 | |
| 12:22:58 | 859.7 | | 96.71625 | |
| 12:23:28 | 871.9 | | 98.08875 | |
| 12:23:58 | 884.8 | | 99.54 | |
| 12:24:28 | 881 | | 99.1125 | |
| 12:24:58 | 866.2 | | 97.4475 | |
| 12:25:28 | 854.4 | | 96.12 | |
| 12:25:58 | 875.4 | | 98.4825 | |
| 12:26:28 | 865 | | 97.3125 | |



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|----------|-------|--|-----------|--|
| 12:26:58 | 879.5 | | 98.94375 | |
| 12:27:28 | 873.4 | | 98.2575 | |
| 12:27:58 | 879.7 | | 98.96625 | |
| 12:28:28 | 864.3 | | 97.23375 | |
| 12:28:58 | 850.7 | | 95.70375 | |
| 12:29:28 | 855.8 | | 96.2775 | |
| 12:29:58 | 874.8 | | 98.415 | |
| 12:30:28 | 881.1 | | 99.12375 | |
| 12:30:58 | 881.4 | | 99.1575 | |
| 12:31:28 | 875.3 | | 98.47125 | |
| 12:31:58 | 895.7 | | 100.76625 | |
| 12:32:28 | 862.7 | | 97.05375 | |
| 12:32:58 | 881.4 | | 99.1575 | |
| 12:33:28 | 867.3 | | 97.57125 | |
| 12:33:58 | 869.9 | | 97.86375 | |
| 12:34:28 | 874 | | 98.325 | |
| 12:34:58 | 879.9 | | 98.98875 | |
| 12:35:28 | 865.9 | | 97.41375 | |
| 12:35:58 | 877 | | 98.6625 | |
| 12:36:28 | 877.8 | | 98.7525 | |
| 12:36:58 | 862.7 | | 97.05375 | |
| 12:37:28 | 873 | | 98.2125 | |
| 12:37:58 | 859.6 | | 96.705 | |
| 12:38:28 | 864.5 | | 97.25625 | |
| 12:38:58 | 876.2 | | 98.5725 | |
| 12:39:28 | 863.7 | | 97.16625 | |
| 12:39:58 | 871.6 | | 98.055 | |
| 12:40:28 | 864.5 | | 97.25625 | |
| 12:40:58 | 872.1 | | 98.11125 | |
| 12:41:28 | 870.2 | | 97.8975 | |
| 12:41:58 | 873.5 | | 98.26875 | |
| 12:42:28 | 863.9 | | 97.18875 | |
| 12:42:58 | 873.8 | | 98.3025 | |
| 12:43:28 | 867.8 | | 97.6275 | |
| 12:43:58 | 863.1 | | 97.09875 | |
| 12:44:28 | 881.1 | | 99.12375 | |
| 12:44:58 | 853.6 | | 96.03 | |
| 12:45:28 | 863.5 | | 97.14375 | |
| 12:45:58 | 863.7 | | 97.16625 | |
| 12:46:28 | 847.2 | | 95.31 | |
| 12:46:58 | 849.9 | | 95.61375 | |
| 12:47:28 | 868.4 | | 97.695 | |

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|----------|-------|--|----------|--|
| 12:47:58 | 851.3 | | 95.77125 | |
| 12:48:28 | 862 | | 96.975 | |
| 12:48:58 | 867.8 | | 97.6275 | |
| 12:49:28 | 865.1 | | 97.32375 | |
| 12:49:58 | 875.9 | | 98.53875 | |
| 12:50:28 | 858.6 | | 96.5925 | |
| 12:50:58 | 865.8 | | 97.4025 | |
| 12:51:28 | 857 | | 96.4125 | |
| 12:51:58 | 883.7 | | 99.41625 | |
| 12:52:28 | 855.3 | | 96.22125 | |
| 12:52:58 | 864.5 | | 97.25625 | |
| 12:53:28 | 841.1 | | 94.62375 | |
| 12:53:58 | 863.5 | | 97.14375 | |
| 12:54:28 | 846 | | 95.175 | |
| 12:54:58 | 858 | | 96.525 | |
| 12:55:28 | 863.5 | | 97.14375 | |
| 12:55:58 | 869.9 | | 97.86375 | |
| 12:56:28 | 861.2 | | 96.885 | |
| 12:56:58 | 840.9 | | 94.60125 | |
| 12:57:28 | 849.4 | | 95.5575 | |
| 12:57:58 | 866.7 | | 97.50375 | |
| 12:58:28 | 847.2 | | 95.31 | |
| 12:58:58 | 864.5 | | 97.25625 | |
| 12:59:28 | 847.4 | | 95.3325 | |
| 12:59:58 | 839.1 | | 94.39875 | |
| 13:00:28 | 840.9 | | 94.60125 | |
| 13:00:58 | 829 | | 93.2625 | |
| 13:01:28 | 827.9 | | 93.13875 | |
| 13:01:58 | 841.7 | | 94.69125 | |
| 13:02:28 | 846.8 | | 95.265 | |
| 13:02:58 | 835.3 | | 93.97125 | |
| 13:03:28 | 835 | | 93.9375 | |
| 13:03:58 | 832.2 | | 93.6225 | |
| 13:04:28 | 851.7 | | 95.81625 | |
| 13:04:58 | 843.9 | | 94.93875 | |
| 13:05:28 | 852.9 | | 95.95125 | |
| 13:05:58 | 837.4 | | 94.2075 | |
| 13:06:28 | 822.8 | | 92.565 | |
| 13:06:58 | 838.2 | | 94.2975 | |
| 13:07:28 | 853.1 | | 95.97375 | |
| 13:07:58 | 843.6 | | 94.905 | |
| 13:08:28 | 837.7 | | 94.24125 | |



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|----------|-------|--|----------|--|
| 13:08:58 | 841.7 | | 94.69125 | |
| 13:09:28 | 827 | | 93.0375 | |
| 13:09:58 | 829.3 | | 93.29625 | |
| 13:10:28 | 854.2 | | 96.0975 | |
| 13:10:58 | 849.3 | | 95.54625 | |
| 13:11:28 | 833.9 | | 93.81375 | |
| 13:11:58 | 818.2 | | 92.0475 | |
| 13:12:28 | 831.5 | | 93.54375 | |
| 13:12:58 | 805.7 | | 90.64125 | |
| 13:13:28 | 811.8 | | 91.3275 | |
| 13:13:58 | 845.2 | | 95.085 | |
| 13:14:28 | 837.6 | | 94.23 | |
| 13:14:58 | 838.8 | | 94.365 | |
| 13:15:28 | 835.8 | | 94.0275 | |
| 13:15:58 | 830.6 | | 93.4425 | |
| 13:16:28 | 828.4 | | 93.195 | |
| 13:16:58 | 828.5 | | 93.20625 | |
| 13:17:28 | 826.2 | | 92.9475 | |
| 13:17:58 | 818.6 | | 92.0925 | |
| 13:18:28 | 821.1 | | 92.37375 | |
| 13:18:58 | 836.5 | | 94.10625 | |
| 13:19:28 | 832 | | 93.6 | |
| 13:19:58 | 825.2 | | 92.835 | |
| 13:20:28 | 807.3 | | 90.82125 | |
| 13:20:58 | 810.6 | | 91.1925 | |
| 13:21:28 | 827.9 | | 93.13875 | |
| 13:21:58 | 833.3 | | 93.74625 | |
| 13:22:28 | 823 | | 92.5875 | |
| 13:22:58 | 827.6 | | 93.105 | |
| 13:23:28 | 804.9 | | 90.55125 | |
| 13:23:58 | 806.1 | | 90.68625 | |
| 13:24:28 | 801.8 | | 90.2025 | |
| 13:24:58 | 821.7 | | 92.44125 | |
| 13:25:28 | 811.8 | | 91.3275 | |
| 13:25:58 | 787.4 | | 88.5825 | |
| 13:26:28 | 811.8 | | 91.3275 | |
| 13:26:58 | 798 | | 89.775 | |
| 13:27:28 | 801.3 | | 90.14625 | |
| 13:27:58 | 812.5 | | 91.40625 | |
| 13:28:28 | 829.6 | | 93.33 | |
| 13:28:58 | 771.5 | | 86.79375 | |
| 13:29:28 | 794.6 | | 89.3925 | |

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|----------|-------|--|----------|--|
| 13:29:58 | 808 | | 90.9 | |
| 13:30:28 | 803 | | 90.3375 | |
| 13:30:58 | 829.6 | | 93.33 | |
| 13:31:28 | 800.8 | | 90.09 | |
| 13:31:58 | 800.3 | | 90.03375 | |
| 13:32:28 | 801 | | 90.1125 | |
| 13:32:58 | 803.7 | | 90.41625 | |
| 13:33:28 | 801 | | 90.1125 | |
| 13:33:58 | 801.8 | | 90.2025 | |
| 13:34:28 | 793.7 | | 89.29125 | |
| 13:34:58 | 786.4 | | 88.47 | |
| 13:35:28 | 779.9 | | 87.73875 | |
| 13:35:58 | 777.7 | | 87.49125 | |
| 13:36:28 | 773.9 | | 87.06375 | |
| 13:36:58 | 790.1 | | 88.88625 | |
| 13:37:28 | 785.3 | | 88.34625 | |
| 13:37:58 | 783.4 | | 88.1325 | |
| 13:38:28 | 779 | | 87.6375 | |
| 13:38:58 | 789.9 | | 88.86375 | |
| 13:39:28 | 783.1 | | 88.09875 | |
| 13:39:58 | 795.1 | | 89.44875 | |
| 13:40:28 | 772.5 | | 86.90625 | |
| 13:40:58 | 783.4 | | 88.1325 | |
| 13:41:28 | 782.9 | | 88.07625 | |
| 13:41:58 | 797 | | 89.6625 | |
| 13:42:28 | 789.4 | | 88.8075 | |
| 13:42:58 | 767.1 | | 86.29875 | |
| 13:43:28 | 784.5 | | 88.25625 | |
| 13:43:58 | 774.5 | | 87.13125 | |
| 13:44:28 | 764.1 | | 85.96125 | |
| 13:44:58 | 774.4 | | 87.12 | |
| 13:45:28 | 782.8 | | 88.065 | |
| 13:45:58 | 757.1 | | 85.17375 | |
| 13:46:28 | 751.6 | | 84.555 | |
| 13:46:58 | 771.5 | | 86.79375 | |
| 13:47:28 | 780.4 | | 87.795 | |
| 13:47:58 | 791.2 | | 89.01 | |
| 13:48:28 | 761.9 | | 85.71375 | |
| 13:48:58 | 770.3 | | 86.65875 | |
| 13:49:28 | 757 | | 85.1625 | |
| 13:49:58 | 754.6 | | 84.8925 | |
| 13:50:28 | 751.1 | | 84.49875 | |



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|----------|-------|--|----------|--|
| 13:50:58 | 766 | | 86.175 | |
| 13:51:28 | 772.8 | | 86.94 | |
| 13:51:58 | 765.5 | | 86.11875 | |
| 13:52:28 | 749.5 | | 84.31875 | |
| 13:52:58 | 743 | | 83.5875 | |
| 13:53:28 | 754.9 | | 84.92625 | |
| 13:53:58 | 753.8 | | 84.8025 | |
| 13:54:28 | 715.9 | | 80.53875 | |
| 13:54:58 | 757.4 | | 85.2075 | |
| 13:55:28 | 735.6 | | 82.755 | |
| 13:55:58 | 737.5 | | 82.96875 | |
| 13:56:28 | 740.5 | | 83.30625 | |
| 13:56:58 | 734.9 | | 82.67625 | |
| 13:57:28 | 750.3 | | 84.40875 | |
| 13:57:58 | 738.9 | | 83.12625 | |
| 13:58:28 | 737.3 | | 82.94625 | |
| 13:58:58 | 740.2 | | 83.2725 | |
| 13:59:28 | 759.6 | | 85.455 | |
| 13:59:58 | 744.9 | | 83.80125 | |
| 14:00:28 | 742.7 | | 83.55375 | |
| 14:00:58 | 727.2 | | 81.81 | |
| 14:01:28 | 715.8 | | 80.5275 | |
| 14:01:58 | 737.5 | | 82.96875 | |
| 14:02:28 | 738.7 | | 83.10375 | |
| 14:02:58 | 724.6 | | 81.5175 | |
| 14:03:28 | 722 | | 81.225 | |
| 14:03:58 | 747 | | 84.0375 | |
| 14:04:28 | 708.2 | | 79.6725 | |
| 14:04:58 | 722.3 | | 81.25875 | |
| 14:05:28 | 732.7 | | 82.42875 | |
| 14:05:58 | 741.6 | | 83.43 | |
| 14:06:28 | 717.2 | | 80.685 | |
| 14:06:58 | 717.2 | | 80.685 | |
| 14:07:28 | 724.5 | | 81.50625 | |
| 14:07:58 | 729.9 | | 82.11375 | |
| 14:08:28 | 710.2 | | 79.8975 | |
| 14:08:58 | 735.1 | | 82.69875 | |
| 14:09:28 | 731.9 | | 82.33875 | |
| 14:09:58 | 720.2 | | 81.0225 | |
| 14:10:28 | 730.7 | | 82.20375 | |
| 14:10:58 | 720.7 | | 81.07875 | |
| 14:11:28 | 726.2 | | 81.6975 | |

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|----------|-------|--|----------|--|
| 14:11:58 | 710.4 | | 79.92 | |
| 14:12:28 | 712 | | 80.1 | |
| 14:12:58 | 717.2 | | 80.685 | |
| 14:13:28 | 708.2 | | 79.6725 | |
| 14:13:58 | 734.3 | | 82.60875 | |
| 14:14:28 | 731.5 | | 82.29375 | |
| 14:14:58 | 712.1 | | 80.11125 | |
| 14:15:28 | 684.9 | | 77.05125 | |
| 14:15:58 | 707.2 | | 79.56 | |
| 14:16:28 | 698.5 | | 78.58125 | |
| 14:16:58 | 706.8 | | 79.515 | |
| 14:17:28 | 703.4 | | 79.1325 | |
| 14:17:58 | 717.7 | | 80.74125 | |
| 14:18:28 | 706 | | 79.425 | |
| 14:18:58 | 705.6 | | 79.38 | |
| 14:19:28 | 686.2 | | 77.1975 | |
| 14:19:58 | 685.4 | | 77.1075 | |
| 14:20:28 | 695.7 | | 78.26625 | |
| 14:20:58 | 706.4 | | 79.47 | |
| 14:21:28 | 694.1 | | 78.08625 | |
| 14:21:58 | 713.4 | | 80.2575 | |
| 14:22:28 | 693.6 | | 78.03 | |
| 14:22:58 | 688.2 | | 77.4225 | |
| 14:23:28 | 692.3 | | 77.88375 | |
| 14:23:58 | 702.5 | | 79.03125 | |
| 14:24:28 | 679.7 | | 76.46625 | |
| 14:24:58 | 686.5 | | 77.23125 | |
| 14:25:28 | 691.1 | | 77.74875 | |
| 14:25:58 | 695.7 | | 78.26625 | |
| 14:26:28 | 680.9 | | 76.60125 | |
| 14:26:58 | 695.3 | | 78.22125 | |
| 14:27:28 | 692.3 | | 77.88375 | |
| 14:27:58 | 668.9 | | 75.25125 | |
| 14:28:28 | 667.8 | | 75.1275 | |
| 14:28:58 | 679.8 | | 76.4775 | |
| 14:29:28 | 685.7 | | 77.14125 | |
| 14:29:58 | 668 | | 75.15 | |
| 14:30:28 | 677.6 | | 76.23 | |
| 14:30:58 | 686 | | 77.175 | |
| 14:31:28 | 673.8 | | 75.8025 | |
| 14:31:58 | 642.3 | | 72.25875 | |
| 14:32:28 | 643.2 | | 72.36 | |



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|----------|-------|--|----------|--|
| 14:32:58 | 655.3 | | 73.72125 | |
| 14:33:28 | 661.9 | | 74.46375 | |
| 14:33:58 | 646.4 | | 72.72 | |
| 14:34:28 | 661.3 | | 74.39625 | |
| 14:34:58 | 672.4 | | 75.645 | |
| 14:35:28 | 652.6 | | 73.4175 | |
| 14:35:58 | 627.4 | | 70.5825 | |
| 14:36:28 | 640.9 | | 72.10125 | |
| 14:36:58 | 636.8 | | 71.64 | |
| 14:37:28 | 647.7 | | 72.86625 | |
| 14:37:58 | 639.8 | | 71.9775 | |
| 14:38:28 | 648.6 | | 72.9675 | |
| 14:38:58 | 628.5 | | 70.70625 | |
| 14:39:28 | 637.9 | | 71.76375 | |
| 14:39:58 | 640.7 | | 72.07875 | |
| 14:40:28 | 638.2 | | 71.7975 | |
| 14:40:58 | 636.3 | | 71.58375 | |
| 14:41:28 | 638 | | 71.775 | |
| 14:41:58 | 636 | | 71.55 | |
| 14:42:28 | 629.3 | | 70.79625 | |
| 14:42:58 | 613.9 | | 69.06375 | |
| 14:43:28 | 637.1 | | 71.67375 | |
| 14:43:58 | 631.1 | | 70.99875 | |
| 14:44:28 | 620 | | 69.75 | |
| 14:44:58 | 608.4 | | 68.445 | |
| 14:45:28 | 636.8 | | 71.64 | |
| 14:45:58 | 624.4 | | 70.245 | |
| 14:46:28 | 595.4 | | 66.9825 | |
| 14:46:58 | 622.2 | | 69.9975 | |
| 14:47:28 | 614.9 | | 69.17625 | |
| 14:47:58 | 621.4 | | 69.9075 | |
| 14:48:28 | 639.3 | | 71.92125 | |
| 14:48:58 | 607.9 | | 68.38875 | |
| 14:49:28 | 617.9 | | 69.51375 | |
| 14:49:58 | 613 | | 68.9625 | |
| 14:50:28 | 643.7 | | 72.41625 | |
| 14:50:58 | 603.2 | | 67.86 | |
| 14:51:28 | 621.2 | | 69.885 | |
| 14:51:58 | 616.6 | | 69.3675 | |
| 14:52:28 | 463.5 | | 52.14375 | |
| 14:52:58 | 445.3 | | 50.09625 | |
| 14:53:28 | 628.4 | | 70.695 | |

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|----------|--------------------|--|-------------------|--|
| 14:53:58 | 589.6 | | 66.33 | |
| 14:54:28 | 589.1 | | 66.27375 | |
| 14:54:58 | 593 | | 66.7125 | |
| 14:55:28 | 594.9 | | 66.92625 | |
| 14:55:58 | 600.5 | | 67.55625 | |
| 14:56:28 | 458 | | 51.525 | |
| 14:56:58 | 604 | | 67.95 | |
| 14:57:28 | 593.7 | | 66.79125 | |
| 14:57:58 | 593.4 | | 66.7575 | |
| 14:58:28 | 592.4 | | 66.645 | |
| 14:58:58 | 587.5 | | 66.09375 | |
| 14:59:28 | 585.1 | | 65.82375 | |
| 14:59:58 | 573.6 | | 64.53 | |
| Average | 799.5941379 | | 89.9543405 | |



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Appendix Table 6, Daily solar irradiance 24 June 2019

| Site Name: | Padang | Date: | 24/06/2019 | Equipment: | |
|------------|--------------------------------------|----------------------------|-------------------------------------|------------|--|
| Location: | | | | | |
| | Lat: -6.2107990 | | Long: 120.4280900 | | |
| Elevation: | <u>± 1</u> meter | Time Zone: | WITA | | |
| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark | |
| 09:00:15 | 544.9 | | 61.30125 | | |
| 09:00:45 | 551.9 | | 62.08875 | | |
| 09:01:15 | 551.7 | | 62.06625 | | |
| 09:01:45 | 558 | | 62.775 | | |
| 09:02:15 | 563.6 | | 63.405 | | |
| 09:02:45 | 565.2 | | 63.585 | | |
| 09:03:15 | 564.1 | | 63.46125 | | |
| 09:03:45 | 568.7 | | 63.97875 | | |
| 09:04:15 | 570.4 | | 64.17 | | |
| 09:04:45 | 576.4 | | 64.845 | | |
| 09:05:15 | 581.3 | | 65.39625 | | |
| 09:05:45 | 581.6 | | 65.43 | | |
| 09:06:15 | 586.5 | | 65.98125 | | |
| 09:06:45 | 588 | | 66.15 | | |
| 09:07:15 | 591.1 | | 66.49875 | | |
| 09:07:45 | 588.6 | | 66.2175 | | |
| 09:08:15 | 592.9 | | 66.70125 | | |
| 09:08:45 | 600 | | 67.5 | | |
| 09:09:15 | 605.4 | | 68.1075 | | |
| 09:09:45 | 608.9 | | 68.50125 | | |
| 09:10:15 | 609.7 | | 68.59125 | | |
| 09:10:45 | 605.9 | | 68.16375 | | |
| 09:11:15 | 610 | | 68.625 | | |
| 09:11:45 | 616 | | 69.3 | | |
| 09:12:15 | 626.5 | | 70.48125 | | |
| 09:12:45 | 639.3 | | 71.92125 | | |
| 09:13:15 | 651.8 | | 73.3275 | | |
| 09:13:45 | 660 | | 74.25 | | |
| 09:14:15 | 679.7 | | 76.46625 | | |
| 09:14:45 | 701.5 | | 78.91875 | | |
| 09:15:15 | 704.7 | | 79.27875 | | |
| 09:15:45 | 698.8 | | 78.615 | | |
| 09:16:15 | 683 | | 76.8375 | | |

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| 09:16:45 | 681.9 | | 76.71375 | |
| 09:17:15 | 686.8 | | 77.265 | |
| 09:17:45 | 694.4 | | 78.12 | |
| 09:18:15 | 701.8 | | 78.9525 | |
| 09:18:45 | 688.4 | | 77.445 | |
| 09:19:15 | 715.6 | | 80.505 | |
| 09:19:45 | 703.9 | | 79.18875 | |
| 09:20:15 | 708 | | 79.65 | |
| 09:20:45 | 723.9 | | 81.43875 | |
| 09:21:15 | 741.1 | | 83.37375 | |
| 09:21:45 | 736.2 | | 82.8225 | |
| 09:22:15 | 745.4 | | 83.8575 | |
| 09:22:45 | 746.7 | | 84.00375 | |
| 09:23:15 | 737.6 | | 82.98 | |
| 09:23:45 | 747.3 | | 84.07125 | |
| 09:24:15 | 737.2 | | 82.935 | |
| 09:24:45 | 734.6 | | 82.6425 | |
| 09:25:15 | 743.7 | | 83.66625 | |
| 09:25:45 | 757.4 | | 85.2075 | |
| 09:26:15 | 769.9 | | 86.61375 | |
| 09:26:45 | 780.4 | | 87.795 | |
| 09:27:15 | 787.8 | | 88.6275 | |
| 09:27:45 | 787.2 | | 88.56 | |
| 09:28:15 | 798.4 | | 89.82 | |
| 09:28:45 | 243.7 | | 27.41625 | |
| 09:29:15 | 338.1 | | 38.03625 | |
| 09:29:45 | 780.2 | | 87.7725 | |
| 09:30:15 | 750 | | 84.375 | |
| 09:30:45 | 255.4 | | 28.7325 | |
| 09:31:15 | 348 | | 39.15 | |
| 09:31:45 | 779.4 | | 87.6825 | |
| 09:32:15 | 630.4 | | 70.92 | |
| 09:32:45 | 329.8 | | 37.1025 | |
| 09:33:15 | 259.2 | | 29.16 | |
| 09:33:45 | 793.1 | | 89.22375 | |
| 09:34:15 | 785.6 | | 88.38 | |
| 09:34:45 | 791.3 | | 89.02125 | |
| 09:35:15 | 795.4 | | 89.4825 | |
| 09:35:45 | 578.5 | | 65.08125 | |
| 09:36:15 | 265.7 | | 29.89125 | |
| 09:36:45 | 547.9 | | 61.63875 | |
| 09:37:15 | 831.2 | | 93.51 | |



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| 09:37:45 | 841.1 | | 94.62375 | |
| 09:38:15 | 415 | | 46.6875 | |
| 09:38:45 | 191.7 | | 21.56625 | |
| 09:39:15 | 176.5 | | 19.85625 | |
| 09:39:45 | 222 | | 24.975 | |
| 09:40:15 | 392.2 | | 44.1225 | |
| 09:40:45 | 693.6 | | 78.03 | |
| 09:41:15 | 805.4 | | 90.6075 | |
| 09:41:45 | 820.5 | | 92.30625 | |
| 09:42:15 | 431.5 | | 48.54375 | |
| 09:42:45 | 438.2 | | 49.2975 | |
| 09:43:15 | 822.7 | | 92.55375 | |
| 09:43:45 | 443.9 | | 49.93875 | |
| 09:44:15 | 185.7 | | 20.89125 | |
| 09:44:45 | 236.9 | | 26.65125 | |
| 09:45:15 | 674 | | 75.825 | |
| 09:45:45 | 658 | | 74.025 | |
| 09:46:15 | 199.3 | | 22.42125 | |
| 09:46:45 | 226.6 | | 25.4925 | |
| 09:47:15 | 169.9 | | 19.11375 | |
| 09:47:45 | 547.1 | | 61.54875 | |
| 09:48:15 | 222 | | 24.975 | |
| 09:48:45 | 318 | | 35.775 | |
| 09:49:15 | 241.6 | | 27.18 | |
| 09:49:45 | 182.2 | | 20.4975 | |
| 09:50:15 | 165.1 | | 18.57375 | |
| 09:50:45 | 179.4 | | 20.1825 | |
| 09:51:15 | 776.9 | | 87.40125 | |
| 09:51:45 | 775.5 | | 87.24375 | |
| 09:52:15 | 786.7 | | 88.50375 | |
| 09:52:45 | 804.6 | | 90.5175 | |
| 09:53:15 | 738.1 | | 83.03625 | |
| 09:53:45 | 780.2 | | 87.7725 | |
| 09:54:15 | 773.1 | | 86.97375 | |
| 09:54:45 | 772.5 | | 86.90625 | |
| 09:55:15 | 764.7 | | 86.02875 | |
| 09:55:45 | 747.6 | | 84.105 | |
| 09:56:15 | 754.7 | | 84.90375 | |
| 09:56:45 | 771.2 | | 86.76 | |
| 09:57:15 | 781.8 | | 87.9525 | |
| 09:57:45 | 138.7 | | 15.60375 | |
| 09:58:15 | 157.2 | | 17.685 | |

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| 09:58:45 | 512.3 | | 57.63375 | |
| 09:59:15 | 820.6 | | 92.3175 | |
| 09:59:45 | 608.7 | | 68.47875 | |
| 10:00:15 | 790.1 | | 88.88625 | |
| 10:00:45 | 778.3 | | 87.55875 | |
| 10:01:15 | 765.2 | | 86.085 | |
| 10:01:45 | 649.1 | | 73.02375 | |
| 10:02:15 | 775.6 | | 87.255 | |
| 10:02:45 | 741.3 | | 83.39625 | |
| 10:03:15 | 141.2 | | 15.885 | |
| 10:03:45 | 144.7 | | 16.27875 | |
| 10:04:15 | 228 | | 25.65 | |
| 10:04:45 | 835.2 | | 93.96 | |
| 10:05:15 | 817.3 | | 91.94625 | |
| 10:05:45 | 813.3 | | 91.49625 | |
| 10:06:15 | 821.9 | | 92.46375 | |
| 10:06:45 | 850.1 | | 95.63625 | |
| 10:07:15 | 210.6 | | 23.6925 | |
| 10:07:45 | 820.5 | | 92.30625 | |
| 10:08:15 | 570.1 | | 64.13625 | |
| 10:08:45 | 385.4 | | 43.3575 | |
| 10:09:15 | 477.7 | | 53.74125 | |
| 10:09:45 | 777.7 | | 87.49125 | |
| 10:10:15 | 758.4 | | 85.32 | |
| 10:10:45 | 758.1 | | 85.28625 | |
| 10:11:15 | 755.1 | | 84.94875 | |
| 10:11:45 | 753.9 | | 84.81375 | |
| 10:12:15 | 757.6 | | 85.23 | |
| 10:12:45 | 769.6 | | 86.58 | |
| 10:13:15 | 777.2 | | 87.435 | |
| 10:13:45 | 780.6 | | 87.8175 | |
| 10:14:15 | 805.3 | | 90.59625 | |
| 10:14:45 | 797.3 | | 89.69625 | |
| 10:15:15 | 785 | | 88.3125 | |
| 10:15:45 | 776.8 | | 87.39 | |
| 10:16:15 | 788 | | 88.65 | |
| 10:16:45 | 797.8 | | 89.7525 | |
| 10:17:15 | 799.2 | | 89.91 | |
| 10:17:45 | 800 | | 90 | |
| 10:18:15 | 799.6 | | 89.955 | |
| 10:18:45 | 794.6 | | 89.3925 | |
| 10:19:15 | 790.2 | | 88.8975 | |



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| 10:19:45 | 786.1 | | 88.43625 | |
| 10:20:15 | 767.9 | | 86.38875 | |
| 10:20:45 | 775 | | 87.1875 | |
| 10:21:15 | 774.2 | | 87.0975 | |
| 10:21:45 | 766.8 | | 86.265 | |
| 10:22:15 | 772.3 | | 86.88375 | |
| 10:22:45 | 778.8 | | 87.615 | |
| 10:23:15 | 793.4 | | 89.2575 | |
| 10:23:45 | 799.2 | | 89.91 | |
| 10:24:15 | 806.2 | | 90.6975 | |
| 10:24:45 | 799.6 | | 89.955 | |
| 10:25:15 | 829.2 | | 93.285 | |
| 10:25:45 | 810.2 | | 91.1475 | |
| 10:26:15 | 671 | | 75.4875 | |
| 10:26:45 | 802.9 | | 90.32625 | |
| 10:27:15 | 806.8 | | 90.765 | |
| 10:27:45 | 828.4 | | 93.195 | |
| 10:28:15 | 803.4 | | 90.3825 | |
| 10:28:45 | 856.1 | | 96.31125 | |
| 10:29:15 | 864 | | 97.2 | |
| 10:29:45 | 863.9 | | 97.18875 | |
| 10:30:15 | 886.2 | | 99.6975 | |
| 10:30:45 | 803.7 | | 90.41625 | |
| 10:31:15 | 754.3 | | 84.85875 | |
| 10:31:45 | 882.7 | | 99.30375 | |
| 10:32:15 | 861.2 | | 96.885 | |
| 10:32:45 | 846.6 | | 95.2425 | |
| 10:33:15 | 857 | | 96.4125 | |
| 10:33:45 | 874.6 | | 98.3925 | |
| 10:34:15 | 877.8 | | 98.7525 | |
| 10:34:45 | 870 | | 97.875 | |
| 10:35:15 | 882.7 | | 99.30375 | |
| 10:35:45 | 890.5 | | 100.18125 | |
| 10:36:15 | 808.7 | | 90.97875 | |
| 10:36:45 | 848.5 | | 95.45625 | |
| 10:37:15 | 899.5 | | 101.19375 | |
| 10:37:45 | 909.8 | | 102.3525 | |
| 10:38:15 | 891.7 | | 100.31625 | |
| 10:38:45 | 874 | | 98.325 | |
| 10:39:15 | 871.6 | | 98.055 | |
| 10:39:45 | 864.6 | | 97.2675 | |
| 10:40:15 | 683.9 | | 76.93875 | |

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| 10:40:45 | 874.6 | | 98.3925 | |
| 10:41:15 | 871.6 | | 98.055 | |
| 10:41:45 | 613.9 | | 69.06375 | |
| 10:42:15 | 882.2 | | 99.2475 | |
| 10:42:45 | 564.2 | | 63.4725 | |
| 10:43:15 | 881.8 | | 99.2025 | |
| 10:43:45 | 865.6 | | 97.38 | |
| 10:44:15 | 853.9 | | 96.06375 | |
| 10:44:45 | 857.5 | | 96.46875 | |
| 10:45:15 | 872.9 | | 98.20125 | |
| 10:45:45 | 866.2 | | 97.4475 | |
| 10:46:15 | 862.9 | | 97.07625 | |
| 10:46:45 | 173.7 | | 19.54125 | |
| 10:47:15 | 812.2 | | 91.3725 | |
| 10:47:45 | 804 | | 90.45 | |
| 10:48:15 | 819.5 | | 92.19375 | |
| 10:48:45 | 818.4 | | 92.07 | |
| 10:49:15 | 840.3 | | 94.53375 | |
| 10:49:45 | 837.7 | | 94.24125 | |
| 10:50:15 | 833.8 | | 93.8025 | |
| 10:50:45 | 842.5 | | 94.78125 | |
| 10:51:15 | 859.4 | | 96.6825 | |
| 10:51:45 | 211.2 | | 23.76 | |
| 10:52:15 | 242.6 | | 27.2925 | |
| 10:52:45 | 878.3 | | 98.80875 | |
| 10:53:15 | 885.7 | | 99.64125 | |
| 10:53:45 | 774.5 | | 87.13125 | |
| 10:54:15 | 864.8 | | 97.29 | |
| 10:54:45 | 867.5 | | 97.59375 | |
| 10:55:15 | 866.7 | | 97.50375 | |
| 10:55:45 | 883 | | 99.3375 | |
| 10:56:15 | 508.3 | | 57.18375 | |
| 10:56:45 | 892.8 | | 100.44 | |
| 10:57:15 | 867.3 | | 97.57125 | |
| 10:57:45 | 854.4 | | 96.12 | |
| 10:58:15 | 846.4 | | 95.22 | |
| 10:58:45 | 847.5 | | 95.34375 | |
| 10:59:15 | 848.5 | | 95.45625 | |
| 10:59:45 | 443.9 | | 49.93875 | |
| 11:00:15 | 831.5 | | 93.54375 | |
| 11:00:45 | 833.3 | | 93.74625 | |
| 11:01:15 | 837.7 | | 94.24125 | |



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| 11:01:45 | 839.3 | | 94.42125 | |
| 11:02:15 | 836.6 | | 94.1175 | |
| 11:02:45 | 833.6 | | 93.78 | |
| 11:03:15 | 835.7 | | 94.01625 | |
| 11:03:45 | 833.4 | | 93.7575 | |
| 11:04:15 | 838 | | 94.275 | |
| 11:04:45 | 839.5 | | 94.44375 | |
| 11:05:15 | 839.9 | | 94.48875 | |
| 11:05:45 | 840.9 | | 94.60125 | |
| 11:06:15 | 840.1 | | 94.51125 | |
| 11:06:45 | 850.4 | | 95.67 | |
| 11:07:15 | 860.4 | | 96.795 | |
| 11:07:45 | 868 | | 97.65 | |
| 11:08:15 | 878.4 | | 98.82 | |
| 11:08:45 | 884.6 | | 99.5175 | |
| 11:09:15 | 880.5 | | 99.05625 | |
| 11:09:45 | 909.6 | | 102.33 | |
| 11:10:15 | 890 | | 100.125 | |
| 11:10:45 | 898.9 | | 101.12625 | |
| 11:11:15 | 872.7 | | 98.17875 | |
| 11:11:45 | 864.8 | | 97.29 | |
| 11:12:15 | 862.1 | | 96.98625 | |
| 11:12:45 | 860.8 | | 96.84 | |
| 11:13:15 | 867.3 | | 97.57125 | |
| 11:13:45 | 869.6 | | 97.83 | |
| 11:14:15 | 868.4 | | 97.695 | |
| 11:14:45 | 868.9 | | 97.75125 | |
| 11:15:15 | 876.5 | | 98.60625 | |
| 11:15:45 | 881.1 | | 99.12375 | |
| 11:16:15 | 880.6 | | 99.0675 | |
| 11:16:45 | 876.8 | | 98.64 | |
| 11:17:15 | 877.2 | | 98.685 | |
| 11:17:45 | 869.4 | | 97.8075 | |
| 11:18:15 | 868.8 | | 97.74 | |
| 11:18:45 | 869.4 | | 97.8075 | |
| 11:19:15 | 865.8 | | 97.4025 | |
| 11:19:45 | 866.5 | | 97.48125 | |
| 11:20:15 | 864 | | 97.2 | |
| 11:20:45 | 863.4 | | 97.1325 | |
| 11:21:15 | 875.3 | | 98.47125 | |
| 11:21:45 | 889.2 | | 100.035 | |
| 11:22:15 | 899.5 | | 101.19375 | |

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| 11:22:45 | 907.2 | | 102.06 | |
| 11:23:15 | 900.1 | | 101.26125 | |
| 11:23:45 | 901.1 | | 101.37375 | |
| 11:24:15 | 895.2 | | 100.71 | |
| 11:24:45 | 899.5 | | 101.19375 | |
| 11:25:15 | 908.5 | | 102.20625 | |
| 11:25:45 | 901.1 | | 101.37375 | |
| 11:26:15 | 908.5 | | 102.20625 | |
| 11:26:45 | 590.7 | | 66.45375 | |
| 11:27:15 | 189 | | 21.2625 | |
| 11:27:45 | 914.1 | | 102.83625 | |
| 11:28:15 | 901.2 | | 101.385 | |
| 11:28:45 | 894.1 | | 100.58625 | |
| 11:29:15 | 894.1 | | 100.58625 | |
| 11:29:45 | 895.8 | | 100.7775 | |
| 11:30:15 | 896.2 | | 100.8225 | |
| 11:30:45 | 892.8 | | 100.44 | |
| 11:31:15 | 895.8 | | 100.7775 | |
| 11:31:45 | 896.8 | | 100.89 | |
| 11:32:15 | 902.3 | | 101.50875 | |
| 11:32:45 | 904.4 | | 101.745 | |
| 11:33:15 | 881 | | 99.1125 | |
| 11:33:45 | 907.4 | | 102.0825 | |
| 11:34:15 | 911.4 | | 102.5325 | |
| 11:34:45 | 900.6 | | 101.3175 | |
| 11:35:15 | 912.2 | | 102.6225 | |
| 11:35:45 | 911.5 | | 102.54375 | |
| 11:36:15 | 907.6 | | 102.105 | |
| 11:36:45 | 923.4 | | 103.8825 | |
| 11:37:15 | 934.6 | | 105.1425 | |
| 11:37:45 | 392.9 | | 44.20125 | |
| 11:38:15 | 929.6 | | 104.58 | |
| 11:38:45 | 909.3 | | 102.29625 | |
| 11:39:15 | 900.6 | | 101.3175 | |
| 11:39:45 | 885.6 | | 99.63 | |
| 11:40:15 | 913.7 | | 102.79125 | |
| 11:40:45 | 899.6 | | 101.205 | |
| 11:41:15 | 907.4 | | 102.0825 | |
| 11:41:45 | 941.3 | | 105.89625 | |
| 11:42:15 | 677.1 | | 76.17375 | |
| 11:42:45 | 163.5 | | 18.39375 | |
| 11:43:15 | 122 | | 13.725 | |



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| 11:43:45 | 129.3 | | 14.54625 | |
| 11:44:15 | 176.4 | | 19.845 | |
| 11:44:45 | 902 | | 101.475 | |
| 11:45:15 | 901.4 | | 101.4075 | |
| 11:45:45 | 900.9 | | 101.35125 | |
| 11:46:15 | 900 | | 101.25 | |
| 11:46:45 | 910.1 | | 102.38625 | |
| 11:47:15 | 160.7 | | 18.07875 | |
| 11:47:45 | 136.9 | | 15.40125 | |
| 11:48:15 | 111.8 | | 12.5775 | |
| 11:48:45 | 193.9 | | 21.81375 | |
| 11:49:15 | 915.3 | | 102.97125 | |
| 11:49:45 | 922.9 | | 103.82625 | |
| 11:50:15 | 474.3 | | 53.35875 | |
| 11:50:45 | 345 | | 38.8125 | |
| 11:51:15 | 835.5 | | 93.99375 | |
| 11:51:45 | 885.7 | | 99.64125 | |
| 11:52:15 | 884.9 | | 99.55125 | |
| 11:52:45 | 900 | | 101.25 | |
| 11:53:15 | 900.9 | | 101.35125 | |
| 11:53:45 | 898.5 | | 101.08125 | |
| 11:54:15 | 889.7 | | 100.09125 | |
| 11:54:45 | 886.7 | | 99.75375 | |
| 11:55:15 | 883 | | 99.3375 | |
| 11:55:45 | 878.6 | | 98.8425 | |
| 11:56:15 | 881 | | 99.1125 | |
| 11:56:45 | 882.7 | | 99.30375 | |
| 11:57:15 | 886 | | 99.675 | |
| 11:57:45 | 908.8 | | 102.24 | |
| 11:58:15 | 860.8 | | 96.84 | |
| 11:58:45 | 870.5 | | 97.93125 | |
| 11:59:15 | 863.5 | | 97.14375 | |
| 11:59:45 | 869.4 | | 97.8075 | |
| 12:00:15 | 859.9 | | 96.73875 | |
| 12:00:45 | 853.9 | | 96.06375 | |
| 12:01:15 | 863.2 | | 97.11 | |
| 12:01:45 | 871.3 | | 98.02125 | |
| 12:02:15 | 866.5 | | 97.48125 | |
| 12:02:45 | 856.7 | | 96.37875 | |
| 12:03:15 | 864.8 | | 97.29 | |
| 12:03:45 | 870.8 | | 97.965 | |
| 12:04:15 | 892.8 | | 100.44 | |

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| 12:04:45 | 925 | | 104.0625 | |
| 12:05:15 | 135.8 | | 15.2775 | |
| 12:05:45 | 813.7 | | 91.54125 | |
| 12:06:15 | 875.4 | | 98.4825 | |
| 12:06:45 | 874.5 | | 98.38125 | |
| 12:07:15 | 893.6 | | 100.53 | |
| 12:07:45 | 833.6 | | 93.78 | |
| 12:08:15 | 884.4 | | 99.495 | |
| 12:08:45 | 862.9 | | 97.07625 | |
| 12:09:15 | 857.8 | | 96.5025 | |
| 12:09:45 | 852.8 | | 95.94 | |
| 12:10:15 | 847.5 | | 95.34375 | |
| 12:10:45 | 845.5 | | 95.11875 | |
| 12:11:15 | 851.8 | | 95.8275 | |
| 12:11:45 | 853.6 | | 96.03 | |
| 12:12:15 | 850.4 | | 95.67 | |
| 12:12:45 | 850.1 | | 95.63625 | |
| 12:13:15 | 851.5 | | 95.79375 | |
| 12:13:45 | 855.3 | | 96.22125 | |
| 12:14:15 | 858.6 | | 96.5925 | |
| 12:14:45 | 858.5 | | 96.58125 | |
| 12:15:15 | 854.7 | | 96.15375 | |
| 12:15:45 | 869.2 | | 97.785 | |
| 12:16:15 | 872.2 | | 98.1225 | |
| 12:16:45 | 865.1 | | 97.32375 | |
| 12:17:15 | 864.6 | | 97.2675 | |
| 12:17:45 | 864.8 | | 97.29 | |
| 12:18:15 | 858.9 | | 96.62625 | |
| 12:18:45 | 852.3 | | 95.88375 | |
| 12:19:15 | 852.5 | | 95.90625 | |
| 12:19:45 | 857.8 | | 96.5025 | |
| 12:20:15 | 856.4 | | 96.345 | |
| 12:20:45 | 856.4 | | 96.345 | |
| 12:21:15 | 859.3 | | 96.67125 | |
| 12:21:45 | 867.2 | | 97.56 | |
| 12:22:15 | 348.5 | | 39.20625 | |
| 12:22:45 | 860.4 | | 96.795 | |
| 12:23:15 | 850.9 | | 95.72625 | |
| 12:23:45 | 850.9 | | 95.72625 | |
| 12:24:15 | 847.7 | | 95.36625 | |
| 12:24:45 | 848.7 | | 95.47875 | |
| 12:25:15 | 848.8 | | 95.49 | |



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|----------|-------|--|----------|--|
| 12:25:45 | 806.1 | | 90.68625 | |
| 12:26:15 | 849 | | 95.5125 | |
| 12:26:45 | 841.7 | | 94.69125 | |
| 12:27:15 | 843.9 | | 94.93875 | |
| 12:27:45 | 845.5 | | 95.11875 | |
| 12:28:15 | 843 | | 94.8375 | |
| 12:28:45 | 846.8 | | 95.265 | |
| 12:29:15 | 843.9 | | 94.93875 | |
| 12:29:45 | 846 | | 95.175 | |
| 12:30:15 | 840.3 | | 94.53375 | |
| 12:30:45 | 844.2 | | 94.9725 | |
| 12:31:15 | 854.2 | | 96.0975 | |
| 12:31:45 | 852 | | 95.85 | |
| 12:32:15 | 848.5 | | 95.45625 | |
| 12:32:45 | 855.9 | | 96.28875 | |
| 12:33:15 | 859.3 | | 96.67125 | |
| 12:33:45 | 849.1 | | 95.52375 | |
| 12:34:15 | 843.6 | | 94.905 | |
| 12:34:45 | 843 | | 94.8375 | |
| 12:35:15 | 841.8 | | 94.7025 | |
| 12:35:45 | 841.5 | | 94.66875 | |
| 12:36:15 | 844.1 | | 94.96125 | |
| 12:36:45 | 846.4 | | 95.22 | |
| 12:37:15 | 850.7 | | 95.70375 | |
| 12:37:45 | 854.4 | | 96.12 | |
| 12:38:15 | 852 | | 95.85 | |
| 12:38:45 | 836.6 | | 94.1175 | |
| 12:39:15 | 843.4 | | 94.8825 | |
| 12:39:45 | 847.2 | | 95.31 | |
| 12:40:15 | 849 | | 95.5125 | |
| 12:40:45 | 852.3 | | 95.88375 | |
| 12:41:15 | 851.5 | | 95.79375 | |
| 12:41:45 | 842.8 | | 94.815 | |
| 12:42:15 | 834.2 | | 93.8475 | |
| 12:42:45 | 833 | | 93.7125 | |
| 12:43:15 | 823.8 | | 92.6775 | |
| 12:43:45 | 828.7 | | 93.22875 | |
| 12:44:15 | 830.8 | | 93.465 | |
| 12:44:45 | 837.1 | | 94.17375 | |
| 12:45:15 | 849.3 | | 95.54625 | |
| 12:45:45 | 836.9 | | 94.15125 | |
| 12:46:15 | 828.2 | | 93.1725 | |

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| 12:46:45 | 822.2 | | 92.4975 | |
| 12:47:15 | 832.2 | | 93.6225 | |
| 12:47:45 | 840.4 | | 94.545 | |
| 12:48:15 | 848.3 | | 95.43375 | |
| 12:48:45 | 830.4 | | 93.42 | |
| 12:49:15 | 826.2 | | 92.9475 | |
| 12:49:45 | 827.7 | | 93.11625 | |
| 12:50:15 | 826.5 | | 92.98125 | |
| 12:50:45 | 824.4 | | 92.745 | |
| 12:51:15 | 820 | | 92.25 | |
| 12:51:45 | 817.5 | | 91.96875 | |
| 12:52:15 | 813.7 | | 91.54125 | |
| 12:52:45 | 812.5 | | 91.40625 | |
| 12:53:15 | 810 | | 91.125 | |
| 12:53:45 | 821.3 | | 92.39625 | |
| 12:54:15 | 827.4 | | 93.0825 | |
| 12:54:45 | 839.6 | | 94.455 | |
| 12:55:15 | 848.7 | | 95.47875 | |
| 12:55:45 | 850.7 | | 95.70375 | |
| 12:56:15 | 841.7 | | 94.69125 | |
| 12:56:45 | 837.7 | | 94.24125 | |
| 12:57:15 | 832.3 | | 93.63375 | |
| 12:57:45 | 834.1 | | 93.83625 | |
| 12:58:15 | 840.3 | | 94.53375 | |
| 12:58:45 | 865.4 | | 97.3575 | |
| 12:59:15 | 864.5 | | 97.25625 | |
| 12:59:45 | 855.9 | | 96.28875 | |
| 13:00:15 | 845.2 | | 95.085 | |
| 13:00:45 | 820.3 | | 92.28375 | |
| 13:01:15 | 811.6 | | 91.305 | |
| 13:01:45 | 810.2 | | 91.1475 | |
| 13:02:15 | 808.7 | | 90.97875 | |
| 13:02:45 | 810 | | 91.125 | |
| 13:03:15 | 815.9 | | 91.78875 | |
| 13:03:45 | 817.8 | | 92.0025 | |
| 13:04:15 | 815.4 | | 91.7325 | |
| 13:04:45 | 816.5 | | 91.85625 | |
| 13:05:15 | 825.2 | | 92.835 | |
| 13:05:45 | 823.5 | | 92.64375 | |
| 13:06:15 | 822 | | 92.475 | |
| 13:06:45 | 767.4 | | 86.3325 | |
| 13:07:15 | 762.5 | | 85.78125 | |



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|----------|-------|--|----------|--|
| 13:07:45 | 801 | | 90.1125 | |
| 13:08:15 | 795.3 | | 89.47125 | |
| 13:08:45 | 790.4 | | 88.92 | |
| 13:09:15 | 789.9 | | 88.86375 | |
| 13:09:45 | 788.9 | | 88.75125 | |
| 13:10:15 | 790.1 | | 88.88625 | |
| 13:10:45 | 791 | | 88.9875 | |
| 13:11:15 | 792 | | 89.1 | |
| 13:11:45 | 797.3 | | 89.69625 | |
| 13:12:15 | 795.1 | | 89.44875 | |
| 13:12:45 | 800.2 | | 90.0225 | |
| 13:13:15 | 803.2 | | 90.36 | |
| 13:13:45 | 815.4 | | 91.7325 | |
| 13:14:15 | 811.9 | | 91.33875 | |
| 13:14:45 | 819.8 | | 92.2275 | |
| 13:15:15 | 811.9 | | 91.33875 | |
| 13:15:45 | 803.2 | | 90.36 | |
| 13:16:15 | 799.4 | | 89.9325 | |
| 13:16:45 | 791.8 | | 89.0775 | |
| 13:17:15 | 793.4 | | 89.2575 | |
| 13:17:45 | 796.2 | | 89.5725 | |
| 13:18:15 | 805.3 | | 90.59625 | |
| 13:18:45 | 804.6 | | 90.5175 | |
| 13:19:15 | 205.5 | | 23.11875 | |
| 13:19:45 | 166.1 | | 18.68625 | |
| 13:20:15 | 205.8 | | 23.1525 | |
| 13:20:45 | 799.7 | | 89.96625 | |
| 13:21:15 | 783.6 | | 88.155 | |
| 13:21:45 | 787.2 | | 88.56 | |
| 13:22:15 | 790.4 | | 88.92 | |
| 13:22:45 | 785.8 | | 88.4025 | |
| 13:23:15 | 778.7 | | 87.60375 | |
| 13:23:45 | 779.9 | | 87.73875 | |
| 13:24:15 | 778.3 | | 87.55875 | |
| 13:24:45 | 779.1 | | 87.64875 | |
| 13:25:15 | 779.6 | | 87.705 | |
| 13:25:45 | 777.9 | | 87.51375 | |
| 13:26:15 | 775.5 | | 87.24375 | |
| 13:26:45 | 782.9 | | 88.07625 | |
| 13:27:15 | 372 | | 41.85 | |
| 13:27:45 | 781.2 | | 87.885 | |
| 13:28:15 | 774.1 | | 87.08625 | |

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|----------|-------|--|----------|--|
| 13:28:45 | 775.6 | | 87.255 | |
| 13:29:15 | 780.6 | | 87.8175 | |
| 13:29:45 | 781.8 | | 87.9525 | |
| 13:30:15 | 783.9 | | 88.18875 | |
| 13:30:45 | 173.4 | | 19.5075 | |
| 13:31:15 | 801.8 | | 90.2025 | |
| 13:31:45 | 295 | | 33.1875 | |
| 13:32:15 | 837.7 | | 94.24125 | |
| 13:32:45 | 183 | | 20.5875 | |
| 13:33:15 | 137.9 | | 15.51375 | |
| 13:33:45 | 153.4 | | 17.2575 | |
| 13:34:15 | 760.3 | | 85.53375 | |
| 13:34:45 | 747.8 | | 84.1275 | |
| 13:35:15 | 738.9 | | 83.12625 | |
| 13:35:45 | 738.9 | | 83.12625 | |
| 13:36:15 | 734.2 | | 82.5975 | |
| 13:36:45 | 734.6 | | 82.6425 | |
| 13:37:15 | 736.5 | | 82.85625 | |
| 13:37:45 | 732.6 | | 82.4175 | |
| 13:38:15 | 739.9 | | 83.23875 | |
| 13:38:45 | 731.5 | | 82.29375 | |
| 13:39:15 | 738.6 | | 83.0925 | |
| 13:39:45 | 744.6 | | 83.7675 | |
| 13:40:15 | 740.6 | | 83.3175 | |
| 13:40:45 | 750.1 | | 84.38625 | |
| 13:41:15 | 744.1 | | 83.71125 | |
| 13:41:45 | 725.8 | | 81.6525 | |
| 13:42:15 | 720.1 | | 81.01125 | |
| 13:42:45 | 721.6 | | 81.18 | |
| 13:43:15 | 715.1 | | 80.44875 | |
| 13:43:45 | 710.4 | | 79.92 | |
| 13:44:15 | 716.3 | | 80.58375 | |
| 13:44:45 | 712 | | 80.1 | |
| 13:45:15 | 706.9 | | 79.52625 | |
| 13:45:45 | 707.7 | | 79.61625 | |
| 13:46:15 | 712.8 | | 80.19 | |
| 13:46:45 | 706.9 | | 79.52625 | |
| 13:47:15 | 708.2 | | 79.6725 | |
| 13:47:45 | 703 | | 79.0875 | |
| 13:48:15 | 704.4 | | 79.245 | |
| 13:48:45 | 708 | | 79.65 | |
| 13:49:15 | 707.4 | | 79.5825 | |



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|----------|-------|--|----------|--|
| 13:49:45 | 702.3 | | 79.00875 | |
| 13:50:15 | 703.1 | | 79.09875 | |
| 13:50:45 | 702.8 | | 79.065 | |
| 13:51:15 | 703.1 | | 79.09875 | |
| 13:51:45 | 701.1 | | 78.87375 | |
| 13:52:15 | 695.5 | | 78.24375 | |
| 13:52:45 | 697.9 | | 78.51375 | |
| 13:53:15 | 701.2 | | 78.885 | |
| 13:53:45 | 696.3 | | 78.33375 | |
| 13:54:15 | 693.1 | | 77.97375 | |
| 13:54:45 | 691.7 | | 77.81625 | |
| 13:55:15 | 690.8 | | 77.715 | |
| 13:55:45 | 684.9 | | 77.05125 | |
| 13:56:15 | 682 | | 76.725 | |
| 13:56:45 | 678.6 | | 76.3425 | |
| 13:57:15 | 680.1 | | 76.51125 | |
| 13:57:45 | 672.9 | | 75.70125 | |
| 13:58:15 | 679.2 | | 76.41 | |
| 13:58:45 | 679.4 | | 76.4325 | |
| 13:59:15 | 678.6 | | 76.3425 | |
| 13:59:45 | 673.2 | | 75.735 | |
| 14:00:15 | 670.6 | | 75.4425 | |
| 14:00:45 | 664.8 | | 74.79 | |
| 14:01:15 | 664.3 | | 74.73375 | |
| 14:01:45 | 665.3 | | 74.84625 | |
| 14:02:15 | 657.7 | | 73.99125 | |
| 14:02:45 | 662.1 | | 74.48625 | |
| 14:03:15 | 667.8 | | 75.1275 | |
| 14:03:45 | 616.5 | | 69.35625 | |
| 14:04:15 | 654.3 | | 73.60875 | |
| 14:04:45 | 653.5 | | 73.51875 | |
| 14:05:15 | 658.4 | | 74.07 | |
| 14:05:45 | 654.8 | | 73.665 | |
| 14:06:15 | 657.2 | | 73.935 | |
| 14:06:45 | 656.4 | | 73.845 | |
| 14:07:15 | 649.4 | | 73.0575 | |
| 14:07:45 | 656.7 | | 73.87875 | |
| 14:08:15 | 656.9 | | 73.90125 | |
| 14:08:45 | 652 | | 73.35 | |
| 14:09:15 | 654.3 | | 73.60875 | |
| 14:09:45 | 650.8 | | 73.215 | |
| 14:10:15 | 655.1 | | 73.69875 | |

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|----------|-------|--|----------|--|
| 14:10:45 | 647.5 | | 72.84375 | |
| 14:11:15 | 644 | | 72.45 | |
| 14:11:45 | 643.9 | | 72.43875 | |
| 14:12:15 | 646.7 | | 72.75375 | |
| 14:12:45 | 633.6 | | 71.28 | |
| 14:13:15 | 639.9 | | 71.98875 | |
| 14:13:45 | 637.4 | | 71.7075 | |
| 14:14:15 | 638.3 | | 71.80875 | |
| 14:14:45 | 633.7 | | 71.29125 | |
| 14:15:15 | 635.6 | | 71.505 | |
| 14:15:45 | 629.8 | | 70.8525 | |
| 14:16:15 | 624.2 | | 70.2225 | |
| 14:16:45 | 630.1 | | 70.88625 | |
| 14:17:15 | 630.4 | | 70.92 | |
| 14:17:45 | 626.8 | | 70.515 | |
| 14:18:15 | 630.6 | | 70.9425 | |
| 14:18:45 | 627.3 | | 70.57125 | |
| 14:19:15 | 626 | | 70.425 | |
| 14:19:45 | 623.4 | | 70.1325 | |
| 14:20:15 | 619.8 | | 69.7275 | |
| 14:20:45 | 618.7 | | 69.60375 | |
| 14:21:15 | 611.1 | | 68.74875 | |
| 14:21:45 | 615.2 | | 69.21 | |
| 14:22:15 | 613 | | 68.9625 | |
| 14:22:45 | 614.1 | | 69.08625 | |
| 14:23:15 | 613.5 | | 69.01875 | |
| 14:23:45 | 609.4 | | 68.5575 | |
| 14:24:15 | 609.2 | | 68.535 | |
| 14:24:45 | 608.1 | | 68.41125 | |
| 14:25:15 | 605.4 | | 68.1075 | |
| 14:25:45 | 600.2 | | 67.5225 | |
| 14:26:15 | 596.2 | | 67.0725 | |
| 14:26:45 | 600.5 | | 67.55625 | |
| 14:27:15 | 592.6 | | 66.6675 | |
| 14:27:45 | 596.7 | | 67.12875 | |
| 14:28:15 | 595.3 | | 66.97125 | |
| 14:28:45 | 588.9 | | 66.25125 | |
| 14:29:15 | 584 | | 65.7 | |
| 14:29:45 | 589.1 | | 66.27375 | |
| 14:30:15 | 588 | | 66.15 | |
| 14:30:45 | 582.4 | | 65.52 | |
| 14:31:15 | 583.1 | | 65.59875 | |



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|----------|-------|--|----------|--|
| 14:31:45 | 583.1 | | 65.59875 | |
| 14:32:15 | 580.2 | | 65.2725 | |
| 14:32:45 | 576.7 | | 64.87875 | |
| 14:33:15 | 582 | | 65.475 | |
| 14:33:45 | 581.5 | | 65.41875 | |
| 14:34:15 | 580.8 | | 65.34 | |
| 14:34:45 | 577.7 | | 64.99125 | |
| 14:35:15 | 574.5 | | 64.63125 | |
| 14:35:45 | 571.5 | | 64.29375 | |
| 14:36:15 | 573.9 | | 64.56375 | |
| 14:36:45 | 575 | | 64.6875 | |
| 14:37:15 | 573.2 | | 64.485 | |
| 14:37:45 | 572.6 | | 64.4175 | |
| 14:38:15 | 568.5 | | 63.95625 | |
| 14:38:45 | 565.8 | | 63.6525 | |
| 14:39:15 | 561.2 | | 63.135 | |
| 14:39:45 | 555.4 | | 62.4825 | |
| 14:40:15 | 558.4 | | 62.82 | |
| 14:40:45 | 557.3 | | 62.69625 | |
| 14:41:15 | 556 | | 62.55 | |
| 14:41:45 | 554.7 | | 62.40375 | |
| 14:42:15 | 550.1 | | 61.88625 | |
| 14:42:45 | 547.7 | | 61.61625 | |
| 14:43:15 | 547.3 | | 61.57125 | |
| 14:43:45 | 543.2 | | 61.11 | |
| 14:44:15 | 544.3 | | 61.23375 | |
| 14:44:45 | 537 | | 60.4125 | |
| 14:45:15 | 537.8 | | 60.5025 | |
| 14:45:45 | 538.2 | | 60.5475 | |
| 14:46:15 | 541.1 | | 60.87375 | |
| 14:46:45 | 532.7 | | 59.92875 | |
| 14:47:15 | 529.9 | | 59.61375 | |
| 14:47:45 | 535.2 | | 60.21 | |
| 14:48:15 | 532.1 | | 59.86125 | |
| 14:48:45 | 529.5 | | 59.56875 | |
| 14:49:15 | 533.3 | | 59.99625 | |
| 14:49:45 | 531.1 | | 59.74875 | |
| 14:50:15 | 531 | | 59.7375 | |
| 14:50:45 | 521.5 | | 58.66875 | |
| 14:51:15 | 524.8 | | 59.04 | |
| 14:51:45 | 524.3 | | 58.98375 | |
| 14:52:15 | 523.8 | | 58.9275 | |

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| 14:52:45 | 518 | | 58.275 | |
| 14:53:15 | 515.6 | | 58.005 | |
| 14:53:45 | 515.6 | | 58.005 | |
| 14:54:15 | 511.6 | | 57.555 | |
| 14:54:45 | 508.6 | | 57.2175 | |
| 14:55:15 | 501.2 | | 56.385 | |
| 14:55:45 | 501.5 | | 56.41875 | |
| 14:56:15 | 503.1 | | 56.59875 | |
| 14:56:45 | 504.4 | | 56.745 | |
| 14:57:15 | 502.9 | | 56.57625 | |
| 14:57:45 | 502.1 | | 56.48625 | |
| 14:58:15 | 504.5 | | 56.75625 | |
| 14:58:45 | 490.7 | | 55.20375 | |
| 14:59:15 | 486.5 | | 54.73125 | |
| 14:59:45 | 486.6 | | 54.7425 | |
| Average | 748.425 | | 84.1978125 | |



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Appendix Table 7, Daily solar irradiance 26 June 2019

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|------------|-----------------------|------------|------------|------------|
| Site Name: | Syafira hotel Rooftop | Date: | 26/06/2019 | Equipment: |
| Location: | | | | |
| | Lat: | | Long: | |
| Elevation: | <u>+ 1 meter</u> | Time Zone: | WITA | |

| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark |
|----------|--------------------------------------|----------------------------|-------------------------------------|--------|
| 09:00:15 | 544.9 | | 61.30125 | |
| 09:00:45 | 551.9 | | 62.08875 | |
| 09:01:15 | 551.7 | | 62.06625 | |
| 09:01:45 | 558 | | 62.775 | |
| 09:02:15 | 563.6 | | 63.405 | |
| 09:02:45 | 565.2 | | 63.585 | |
| 09:03:15 | 564.1 | | 63.46125 | |
| 09:03:45 | 568.7 | | 63.97875 | |
| 09:04:15 | 570.4 | | 64.17 | |
| 09:04:45 | 576.4 | | 64.845 | |
| 09:05:15 | 581.3 | | 65.39625 | |
| 09:05:45 | 581.6 | | 65.43 | |
| 09:06:15 | 586.5 | | 65.98125 | |
| 09:06:45 | 588 | | 66.15 | |
| 09:07:15 | 591.1 | | 66.49875 | |
| 09:07:45 | 588.6 | | 66.2175 | |
| 09:08:15 | 592.9 | | 66.70125 | |
| 09:08:45 | 600 | | 67.5 | |
| 09:09:15 | 605.4 | | 68.1075 | |
| 09:09:45 | 608.9 | | 68.50125 | |
| 09:10:15 | 609.7 | | 68.59125 | |
| 09:10:45 | 605.9 | | 68.16375 | |
| 09:11:15 | 610 | | 68.625 | |
| 09:11:45 | 616 | | 69.3 | |
| 09:12:15 | 626.5 | | 70.48125 | |
| 09:12:45 | 639.3 | | 71.92125 | |
| 09:13:15 | 651.8 | | 73.3275 | |
| 09:13:45 | 660 | | 74.25 | |
| 09:14:15 | 679.7 | | 76.46625 | |
| 09:14:45 | 701.5 | | 78.91875 | |
| 09:15:15 | 704.7 | | 79.27875 | |
| 09:15:45 | 698.8 | | 78.615 | |
| 09:16:15 | 683 | | 76.8375 | |

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|----------|-------|--|----------|--|
| 09:16:45 | 681.9 | | 76.71375 | |
| 09:17:15 | 686.8 | | 77.265 | |
| 09:17:45 | 694.4 | | 78.12 | |
| 09:18:15 | 701.8 | | 78.9525 | |
| 09:18:45 | 688.4 | | 77.445 | |
| 09:19:15 | 715.6 | | 80.505 | |
| 09:19:45 | 703.9 | | 79.18875 | |
| 09:20:15 | 708 | | 79.65 | |
| 09:20:45 | 723.9 | | 81.43875 | |
| 09:21:15 | 741.1 | | 83.37375 | |
| 09:21:45 | 736.2 | | 82.8225 | |
| 09:22:15 | 745.4 | | 83.8575 | |
| 09:22:45 | 746.7 | | 84.00375 | |
| 09:23:15 | 737.6 | | 82.98 | |
| 09:23:45 | 747.3 | | 84.07125 | |
| 09:24:15 | 737.2 | | 82.935 | |
| 09:24:45 | 734.6 | | 82.6425 | |
| 09:25:15 | 743.7 | | 83.66625 | |
| 09:25:45 | 757.4 | | 85.2075 | |
| 09:26:15 | 769.9 | | 86.61375 | |
| 09:26:45 | 780.4 | | 87.795 | |
| 09:27:15 | 787.8 | | 88.6275 | |
| 09:27:45 | 787.2 | | 88.56 | |
| 09:28:15 | 798.4 | | 89.82 | |
| 09:28:45 | 243.7 | | 27.41625 | |
| 09:29:15 | 338.1 | | 38.03625 | |
| 09:29:45 | 780.2 | | 87.7725 | |
| 09:30:15 | 750 | | 84.375 | |
| 09:30:45 | 255.4 | | 28.7325 | |
| 09:31:15 | 348 | | 39.15 | |
| 09:31:45 | 779.4 | | 87.6825 | |
| 09:32:15 | 630.4 | | 70.92 | |
| 09:32:45 | 329.8 | | 37.1025 | |
| 09:33:15 | 259.2 | | 29.16 | |
| 09:33:45 | 793.1 | | 89.22375 | |
| 09:34:15 | 785.6 | | 88.38 | |
| 09:34:45 | 791.3 | | 89.02125 | |
| 09:35:15 | 795.4 | | 89.4825 | |
| 09:35:45 | 578.5 | | 65.08125 | |
| 09:36:15 | 265.7 | | 29.89125 | |
| 09:36:45 | 547.9 | | 61.63875 | |
| 09:37:15 | 831.2 | | 93.51 | |



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| 09:37:45 | 841.1 | | 94.62375 | |
| 09:38:15 | 415 | | 46.6875 | |
| 09:38:45 | 191.7 | | 21.56625 | |
| 09:39:15 | 176.5 | | 19.85625 | |
| 09:39:45 | 222 | | 24.975 | |
| 09:40:15 | 392.2 | | 44.1225 | |
| 09:40:45 | 693.6 | | 78.03 | |
| 09:41:15 | 805.4 | | 90.6075 | |
| 09:41:45 | 820.5 | | 92.30625 | |
| 09:42:15 | 431.5 | | 48.54375 | |
| 09:42:45 | 438.2 | | 49.2975 | |
| 09:43:15 | 822.7 | | 92.55375 | |
| 09:43:45 | 443.9 | | 49.93875 | |
| 09:44:15 | 185.7 | | 20.89125 | |
| 09:44:45 | 236.9 | | 26.65125 | |
| 09:45:15 | 674 | | 75.825 | |
| 09:45:45 | 658 | | 74.025 | |
| 09:46:15 | 199.3 | | 22.42125 | |
| 09:46:45 | 226.6 | | 25.4925 | |
| 09:47:15 | 169.9 | | 19.11375 | |
| 09:47:45 | 547.1 | | 61.54875 | |
| 09:48:15 | 222 | | 24.975 | |
| 09:48:45 | 318 | | 35.775 | |
| 09:49:15 | 241.6 | | 27.18 | |
| 09:49:45 | 182.2 | | 20.4975 | |
| 09:50:15 | 165.1 | | 18.57375 | |
| 09:50:45 | 179.4 | | 20.1825 | |
| 09:51:15 | 776.9 | | 87.40125 | |
| 09:51:45 | 775.5 | | 87.24375 | |
| 09:52:15 | 786.7 | | 88.50375 | |
| 09:52:45 | 804.6 | | 90.5175 | |
| 09:53:15 | 738.1 | | 83.03625 | |
| 09:53:45 | 780.2 | | 87.7725 | |
| 09:54:15 | 773.1 | | 86.97375 | |
| 09:54:45 | 772.5 | | 86.90625 | |
| 09:55:15 | 764.7 | | 86.02875 | |
| 09:55:45 | 747.6 | | 84.105 | |
| 09:56:15 | 754.7 | | 84.90375 | |
| 09:56:45 | 771.2 | | 86.76 | |
| 09:57:15 | 781.8 | | 87.9525 | |
| 09:57:45 | 138.7 | | 15.60375 | |
| 09:58:15 | 157.2 | | 17.685 | |

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| 09:58:45 | 512.3 | | 57.63375 | |
| 09:59:15 | 820.6 | | 92.3175 | |
| 09:59:45 | 608.7 | | 68.47875 | |
| 10:00:15 | 790.1 | | 88.88625 | |
| 10:00:45 | 778.3 | | 87.55875 | |
| 10:01:15 | 765.2 | | 86.085 | |
| 10:01:45 | 649.1 | | 73.02375 | |
| 10:02:15 | 775.6 | | 87.255 | |
| 10:02:45 | 741.3 | | 83.39625 | |
| 10:03:15 | 141.2 | | 15.885 | |
| 10:03:45 | 144.7 | | 16.27875 | |
| 10:04:15 | 228 | | 25.65 | |
| 10:04:45 | 835.2 | | 93.96 | |
| 10:05:15 | 817.3 | | 91.94625 | |
| 10:05:45 | 813.3 | | 91.49625 | |
| 10:06:15 | 821.9 | | 92.46375 | |
| 10:06:45 | 850.1 | | 95.63625 | |
| 10:07:15 | 210.6 | | 23.6925 | |
| 10:07:45 | 820.5 | | 92.30625 | |
| 10:08:15 | 570.1 | | 64.13625 | |
| 10:08:45 | 385.4 | | 43.3575 | |
| 10:09:15 | 477.7 | | 53.74125 | |
| 10:09:45 | 777.7 | | 87.49125 | |
| 10:10:15 | 758.4 | | 85.32 | |
| 10:10:45 | 758.1 | | 85.28625 | |
| 10:11:15 | 755.1 | | 84.94875 | |
| 10:11:45 | 753.9 | | 84.81375 | |
| 10:12:15 | 757.6 | | 85.23 | |
| 10:12:45 | 769.6 | | 86.58 | |
| 10:13:15 | 777.2 | | 87.435 | |
| 10:13:45 | 780.6 | | 87.8175 | |
| 10:14:15 | 805.3 | | 90.59625 | |
| 10:14:45 | 797.3 | | 89.69625 | |
| 10:15:15 | 785 | | 88.3125 | |
| 10:15:45 | 776.8 | | 87.39 | |
| 10:16:15 | 788 | | 88.65 | |
| 10:16:45 | 797.8 | | 89.7525 | |
| 10:17:15 | 799.2 | | 89.91 | |
| 10:17:45 | 800 | | 90 | |
| 10:18:15 | 799.6 | | 89.955 | |
| 10:18:45 | 794.6 | | 89.3925 | |
| 10:19:15 | 790.2 | | 88.8975 | |



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| 10:19:45 | 786.1 | | 88.43625 | |
| 10:20:15 | 767.9 | | 86.38875 | |
| 10:20:45 | 775 | | 87.1875 | |
| 10:21:15 | 774.2 | | 87.0975 | |
| 10:21:45 | 766.8 | | 86.265 | |
| 10:22:15 | 772.3 | | 86.88375 | |
| 10:22:45 | 778.8 | | 87.615 | |
| 10:23:15 | 793.4 | | 89.2575 | |
| 10:23:45 | 799.2 | | 89.91 | |
| 10:24:15 | 806.2 | | 90.6975 | |
| 10:24:45 | 799.6 | | 89.955 | |
| 10:25:15 | 829.2 | | 93.285 | |
| 10:25:45 | 810.2 | | 91.1475 | |
| 10:26:15 | 671 | | 75.4875 | |
| 10:26:45 | 802.9 | | 90.32625 | |
| 10:27:15 | 806.8 | | 90.765 | |
| 10:27:45 | 828.4 | | 93.195 | |
| 10:28:15 | 803.4 | | 90.3825 | |
| 10:28:45 | 856.1 | | 96.31125 | |
| 10:29:15 | 864 | | 97.2 | |
| 10:29:45 | 863.9 | | 97.18875 | |
| 10:30:15 | 886.2 | | 99.6975 | |
| 10:30:45 | 803.7 | | 90.41625 | |
| 10:31:15 | 754.3 | | 84.85875 | |
| 10:31:45 | 882.7 | | 99.30375 | |
| 10:32:15 | 861.2 | | 96.885 | |
| 10:32:45 | 846.6 | | 95.2425 | |
| 10:33:15 | 857 | | 96.4125 | |
| 10:33:45 | 874.6 | | 98.3925 | |
| 10:34:15 | 877.8 | | 98.7525 | |
| 10:34:45 | 870 | | 97.875 | |
| 10:35:15 | 882.7 | | 99.30375 | |
| 10:35:45 | 890.5 | | 100.18125 | |
| 10:36:15 | 808.7 | | 90.97875 | |
| 10:36:45 | 848.5 | | 95.45625 | |
| 10:37:15 | 899.5 | | 101.19375 | |
| 10:37:45 | 909.8 | | 102.3525 | |
| 10:38:15 | 891.7 | | 100.31625 | |
| 10:38:45 | 874 | | 98.325 | |
| 10:39:15 | 871.6 | | 98.055 | |
| 10:39:45 | 864.6 | | 97.2675 | |
| 10:40:15 | 683.9 | | 76.93875 | |

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| 10:40:45 | 874.6 | | 98.3925 | |
| 10:41:15 | 871.6 | | 98.055 | |
| 10:41:45 | 613.9 | | 69.06375 | |
| 10:42:15 | 882.2 | | 99.2475 | |
| 10:42:45 | 564.2 | | 63.4725 | |
| 10:43:15 | 881.8 | | 99.2025 | |
| 10:43:45 | 865.6 | | 97.38 | |
| 10:44:15 | 853.9 | | 96.06375 | |
| 10:44:45 | 857.5 | | 96.46875 | |
| 10:45:15 | 872.9 | | 98.20125 | |
| 10:45:45 | 866.2 | | 97.4475 | |
| 10:46:15 | 862.9 | | 97.07625 | |
| 10:46:45 | 173.7 | | 19.54125 | |
| 10:47:15 | 812.2 | | 91.3725 | |
| 10:47:45 | 804 | | 90.45 | |
| 10:48:15 | 819.5 | | 92.19375 | |
| 10:48:45 | 818.4 | | 92.07 | |
| 10:49:15 | 840.3 | | 94.53375 | |
| 10:49:45 | 837.7 | | 94.24125 | |
| 10:50:15 | 833.8 | | 93.8025 | |
| 10:50:45 | 842.5 | | 94.78125 | |
| 10:51:15 | 859.4 | | 96.6825 | |
| 10:51:45 | 211.2 | | 23.76 | |
| 10:52:15 | 242.6 | | 27.2925 | |
| 10:52:45 | 878.3 | | 98.80875 | |
| 10:53:15 | 885.7 | | 99.64125 | |
| 10:53:45 | 774.5 | | 87.13125 | |
| 10:54:15 | 864.8 | | 97.29 | |
| 10:54:45 | 867.5 | | 97.59375 | |
| 10:55:15 | 866.7 | | 97.50375 | |
| 10:55:45 | 883 | | 99.3375 | |
| 10:56:15 | 508.3 | | 57.18375 | |
| 10:56:45 | 892.8 | | 100.44 | |
| 10:57:15 | 867.3 | | 97.57125 | |
| 10:57:45 | 854.4 | | 96.12 | |
| 10:58:15 | 846.4 | | 95.22 | |
| 10:58:45 | 847.5 | | 95.34375 | |
| 10:59:15 | 848.5 | | 95.45625 | |
| 10:59:45 | 443.9 | | 49.93875 | |
| 11:00:15 | 831.5 | | 93.54375 | |
| 11:00:45 | 833.3 | | 93.74625 | |
| 11:01:15 | 837.7 | | 94.24125 | |



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|----------|-------|--|-----------|--|
| 11:01:45 | 839.3 | | 94.42125 | |
| 11:02:15 | 836.6 | | 94.1175 | |
| 11:02:45 | 833.6 | | 93.78 | |
| 11:03:15 | 835.7 | | 94.01625 | |
| 11:03:45 | 833.4 | | 93.7575 | |
| 11:04:15 | 838 | | 94.275 | |
| 11:04:45 | 839.5 | | 94.44375 | |
| 11:05:15 | 839.9 | | 94.48875 | |
| 11:05:45 | 840.9 | | 94.60125 | |
| 11:06:15 | 840.1 | | 94.51125 | |
| 11:06:45 | 850.4 | | 95.67 | |
| 11:07:15 | 860.4 | | 96.795 | |
| 11:07:45 | 868 | | 97.65 | |
| 11:08:15 | 878.4 | | 98.82 | |
| 11:08:45 | 884.6 | | 99.5175 | |
| 11:09:15 | 880.5 | | 99.05625 | |
| 11:09:45 | 909.6 | | 102.33 | |
| 11:10:15 | 890 | | 100.125 | |
| 11:10:45 | 898.9 | | 101.12625 | |
| 11:11:15 | 872.7 | | 98.17875 | |
| 11:11:45 | 864.8 | | 97.29 | |
| 11:12:15 | 862.1 | | 96.98625 | |
| 11:12:45 | 860.8 | | 96.84 | |
| 11:13:15 | 867.3 | | 97.57125 | |
| 11:13:45 | 869.6 | | 97.83 | |
| 11:14:15 | 868.4 | | 97.695 | |
| 11:14:45 | 868.9 | | 97.75125 | |
| 11:15:15 | 876.5 | | 98.60625 | |
| 11:15:45 | 881.1 | | 99.12375 | |
| 11:16:15 | 880.6 | | 99.0675 | |
| 11:16:45 | 876.8 | | 98.64 | |
| 11:17:15 | 877.2 | | 98.685 | |
| 11:17:45 | 869.4 | | 97.8075 | |
| 11:18:15 | 868.8 | | 97.74 | |
| 11:18:45 | 869.4 | | 97.8075 | |
| 11:19:15 | 865.8 | | 97.4025 | |
| 11:19:45 | 866.5 | | 97.48125 | |
| 11:20:15 | 864 | | 97.2 | |
| 11:20:45 | 863.4 | | 97.1325 | |
| 11:21:15 | 875.3 | | 98.47125 | |
| 11:21:45 | 889.2 | | 100.035 | |
| 11:22:15 | 899.5 | | 101.19375 | |

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|----------|-------|--|-----------|--|
| 11:22:45 | 907.2 | | 102.06 | |
| 11:23:15 | 900.1 | | 101.26125 | |
| 11:23:45 | 901.1 | | 101.37375 | |
| 11:24:15 | 895.2 | | 100.71 | |
| 11:24:45 | 899.5 | | 101.19375 | |
| 11:25:15 | 908.5 | | 102.20625 | |
| 11:25:45 | 901.1 | | 101.37375 | |
| 11:26:15 | 908.5 | | 102.20625 | |
| 11:26:45 | 590.7 | | 66.45375 | |
| 11:27:15 | 189 | | 21.2625 | |
| 11:27:45 | 914.1 | | 102.83625 | |
| 11:28:15 | 901.2 | | 101.385 | |
| 11:28:45 | 894.1 | | 100.58625 | |
| 11:29:15 | 894.1 | | 100.58625 | |
| 11:29:45 | 895.8 | | 100.7775 | |
| 11:30:15 | 896.2 | | 100.8225 | |
| 11:30:45 | 892.8 | | 100.44 | |
| 11:31:15 | 895.8 | | 100.7775 | |
| 11:31:45 | 896.8 | | 100.89 | |
| 11:32:15 | 902.3 | | 101.50875 | |
| 11:32:45 | 904.4 | | 101.745 | |
| 11:33:15 | 881 | | 99.1125 | |
| 11:33:45 | 907.4 | | 102.0825 | |
| 11:34:15 | 911.4 | | 102.5325 | |
| 11:34:45 | 900.6 | | 101.3175 | |
| 11:35:15 | 912.2 | | 102.6225 | |
| 11:35:45 | 911.5 | | 102.54375 | |
| 11:36:15 | 907.6 | | 102.105 | |
| 11:36:45 | 923.4 | | 103.8825 | |
| 11:37:15 | 934.6 | | 105.1425 | |
| 11:37:45 | 392.9 | | 44.20125 | |
| 11:38:15 | 929.6 | | 104.58 | |
| 11:38:45 | 909.3 | | 102.29625 | |
| 11:39:15 | 900.6 | | 101.3175 | |
| 11:39:45 | 885.6 | | 99.63 | |
| 11:40:15 | 913.7 | | 102.79125 | |
| 11:40:45 | 899.6 | | 101.205 | |
| 11:41:15 | 907.4 | | 102.0825 | |
| 11:41:45 | 941.3 | | 105.89625 | |
| 11:42:15 | 677.1 | | 76.17375 | |
| 11:42:45 | 163.5 | | 18.39375 | |
| 11:43:15 | 122 | | 13.725 | |



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|----------|-------|--|-----------|--|
| 11:43:45 | 129.3 | | 14.54625 | |
| 11:44:15 | 176.4 | | 19.845 | |
| 11:44:45 | 902 | | 101.475 | |
| 11:45:15 | 901.4 | | 101.4075 | |
| 11:45:45 | 900.9 | | 101.35125 | |
| 11:46:15 | 900 | | 101.25 | |
| 11:46:45 | 910.1 | | 102.38625 | |
| 11:47:15 | 160.7 | | 18.07875 | |
| 11:47:45 | 136.9 | | 15.40125 | |
| 11:48:15 | 111.8 | | 12.5775 | |
| 11:48:45 | 193.9 | | 21.81375 | |
| 11:49:15 | 915.3 | | 102.97125 | |
| 11:49:45 | 922.9 | | 103.82625 | |
| 11:50:15 | 474.3 | | 53.35875 | |
| 11:50:45 | 345 | | 38.8125 | |
| 11:51:15 | 835.5 | | 93.99375 | |
| 11:51:45 | 885.7 | | 99.64125 | |
| 11:52:15 | 884.9 | | 99.55125 | |
| 11:52:45 | 900 | | 101.25 | |
| 11:53:15 | 900.9 | | 101.35125 | |
| 11:53:45 | 898.5 | | 101.08125 | |
| 11:54:15 | 889.7 | | 100.09125 | |
| 11:54:45 | 886.7 | | 99.75375 | |
| 11:55:15 | 883 | | 99.3375 | |
| 11:55:45 | 878.6 | | 98.8425 | |
| 11:56:15 | 881 | | 99.1125 | |
| 11:56:45 | 882.7 | | 99.30375 | |
| 11:57:15 | 886 | | 99.675 | |
| 11:57:45 | 908.8 | | 102.24 | |
| 11:58:15 | 860.8 | | 96.84 | |
| 11:58:45 | 870.5 | | 97.93125 | |
| 11:59:15 | 863.5 | | 97.14375 | |
| 11:59:45 | 869.4 | | 97.8075 | |
| 12:00:15 | 859.9 | | 96.73875 | |
| 12:00:45 | 853.9 | | 96.06375 | |
| 12:01:15 | 863.2 | | 97.11 | |
| 12:01:45 | 871.3 | | 98.02125 | |
| 12:02:15 | 866.5 | | 97.48125 | |
| 12:02:45 | 856.7 | | 96.37875 | |
| 12:03:15 | 864.8 | | 97.29 | |
| 12:03:45 | 870.8 | | 97.965 | |
| 12:04:15 | 892.8 | | 100.44 | |

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| 12:04:45 | 925 | | 104.0625 | |
| 12:05:15 | 135.8 | | 15.2775 | |
| 12:05:45 | 813.7 | | 91.54125 | |
| 12:06:15 | 875.4 | | 98.4825 | |
| 12:06:45 | 874.5 | | 98.38125 | |
| 12:07:15 | 893.6 | | 100.53 | |
| 12:07:45 | 833.6 | | 93.78 | |
| 12:08:15 | 884.4 | | 99.495 | |
| 12:08:45 | 862.9 | | 97.07625 | |
| 12:09:15 | 857.8 | | 96.5025 | |
| 12:09:45 | 852.8 | | 95.94 | |
| 12:10:15 | 847.5 | | 95.34375 | |
| 12:10:45 | 845.5 | | 95.11875 | |
| 12:11:15 | 851.8 | | 95.8275 | |
| 12:11:45 | 853.6 | | 96.03 | |
| 12:12:15 | 850.4 | | 95.67 | |
| 12:12:45 | 850.1 | | 95.63625 | |
| 12:13:15 | 851.5 | | 95.79375 | |
| 12:13:45 | 855.3 | | 96.22125 | |
| 12:14:15 | 858.6 | | 96.5925 | |
| 12:14:45 | 858.5 | | 96.58125 | |
| 12:15:15 | 854.7 | | 96.15375 | |
| 12:15:45 | 869.2 | | 97.785 | |
| 12:16:15 | 872.2 | | 98.1225 | |
| 12:16:45 | 865.1 | | 97.32375 | |
| 12:17:15 | 864.6 | | 97.2675 | |
| 12:17:45 | 864.8 | | 97.29 | |
| 12:18:15 | 858.9 | | 96.62625 | |
| 12:18:45 | 852.3 | | 95.88375 | |
| 12:19:15 | 852.5 | | 95.90625 | |
| 12:19:45 | 857.8 | | 96.5025 | |
| 12:20:15 | 856.4 | | 96.345 | |
| 12:20:45 | 856.4 | | 96.345 | |
| 12:21:15 | 859.3 | | 96.67125 | |
| 12:21:45 | 867.2 | | 97.56 | |
| 12:22:15 | 348.5 | | 39.20625 | |
| 12:22:45 | 860.4 | | 96.795 | |
| 12:23:15 | 850.9 | | 95.72625 | |
| 12:23:45 | 850.9 | | 95.72625 | |
| 12:24:15 | 847.7 | | 95.36625 | |
| 12:24:45 | 848.7 | | 95.47875 | |
| 12:25:15 | 848.8 | | 95.49 | |



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|----------|-------|--|----------|--|
| 12:25:45 | 806.1 | | 90.68625 | |
| 12:26:15 | 849 | | 95.5125 | |
| 12:26:45 | 841.7 | | 94.69125 | |
| 12:27:15 | 843.9 | | 94.93875 | |
| 12:27:45 | 845.5 | | 95.11875 | |
| 12:28:15 | 843 | | 94.8375 | |
| 12:28:45 | 846.8 | | 95.265 | |
| 12:29:15 | 843.9 | | 94.93875 | |
| 12:29:45 | 846 | | 95.175 | |
| 12:30:15 | 840.3 | | 94.53375 | |
| 12:30:45 | 844.2 | | 94.9725 | |
| 12:31:15 | 854.2 | | 96.0975 | |
| 12:31:45 | 852 | | 95.85 | |
| 12:32:15 | 848.5 | | 95.45625 | |
| 12:32:45 | 855.9 | | 96.28875 | |
| 12:33:15 | 859.3 | | 96.67125 | |
| 12:33:45 | 849.1 | | 95.52375 | |
| 12:34:15 | 843.6 | | 94.905 | |
| 12:34:45 | 843 | | 94.8375 | |
| 12:35:15 | 841.8 | | 94.7025 | |
| 12:35:45 | 841.5 | | 94.66875 | |
| 12:36:15 | 844.1 | | 94.96125 | |
| 12:36:45 | 846.4 | | 95.22 | |
| 12:37:15 | 850.7 | | 95.70375 | |
| 12:37:45 | 854.4 | | 96.12 | |
| 12:38:15 | 852 | | 95.85 | |
| 12:38:45 | 836.6 | | 94.1175 | |
| 12:39:15 | 843.4 | | 94.8825 | |
| 12:39:45 | 847.2 | | 95.31 | |
| 12:40:15 | 849 | | 95.5125 | |
| 12:40:45 | 852.3 | | 95.88375 | |
| 12:41:15 | 851.5 | | 95.79375 | |
| 12:41:45 | 842.8 | | 94.815 | |
| 12:42:15 | 834.2 | | 93.8475 | |
| 12:42:45 | 833 | | 93.7125 | |
| 12:43:15 | 823.8 | | 92.6775 | |
| 12:43:45 | 828.7 | | 93.22875 | |
| 12:44:15 | 830.8 | | 93.465 | |
| 12:44:45 | 837.1 | | 94.17375 | |
| 12:45:15 | 849.3 | | 95.54625 | |
| 12:45:45 | 836.9 | | 94.15125 | |
| 12:46:15 | 828.2 | | 93.1725 | |

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| 12:46:45 | 822.2 | | 92.4975 | |
| 12:47:15 | 832.2 | | 93.6225 | |
| 12:47:45 | 840.4 | | 94.545 | |
| 12:48:15 | 848.3 | | 95.43375 | |
| 12:48:45 | 830.4 | | 93.42 | |
| 12:49:15 | 826.2 | | 92.9475 | |
| 12:49:45 | 827.7 | | 93.11625 | |
| 12:50:15 | 826.5 | | 92.98125 | |
| 12:50:45 | 824.4 | | 92.745 | |
| 12:51:15 | 820 | | 92.25 | |
| 12:51:45 | 817.5 | | 91.96875 | |
| 12:52:15 | 813.7 | | 91.54125 | |
| 12:52:45 | 812.5 | | 91.40625 | |
| 12:53:15 | 810 | | 91.125 | |
| 12:53:45 | 821.3 | | 92.39625 | |
| 12:54:15 | 827.4 | | 93.0825 | |
| 12:54:45 | 839.6 | | 94.455 | |
| 12:55:15 | 848.7 | | 95.47875 | |
| 12:55:45 | 850.7 | | 95.70375 | |
| 12:56:15 | 841.7 | | 94.69125 | |
| 12:56:45 | 837.7 | | 94.24125 | |
| 12:57:15 | 832.3 | | 93.63375 | |
| 12:57:45 | 834.1 | | 93.83625 | |
| 12:58:15 | 840.3 | | 94.53375 | |
| 12:58:45 | 865.4 | | 97.3575 | |
| 12:59:15 | 864.5 | | 97.25625 | |
| 12:59:45 | 855.9 | | 96.28875 | |
| 13:00:15 | 845.2 | | 95.085 | |
| 13:00:45 | 820.3 | | 92.28375 | |
| 13:01:15 | 811.6 | | 91.305 | |
| 13:01:45 | 810.2 | | 91.1475 | |
| 13:02:15 | 808.7 | | 90.97875 | |
| 13:02:45 | 810 | | 91.125 | |
| 13:03:15 | 815.9 | | 91.78875 | |
| 13:03:45 | 817.8 | | 92.0025 | |
| 13:04:15 | 815.4 | | 91.7325 | |
| 13:04:45 | 816.5 | | 91.85625 | |
| 13:05:15 | 825.2 | | 92.835 | |
| 13:05:45 | 823.5 | | 92.64375 | |
| 13:06:15 | 822 | | 92.475 | |
| 13:06:45 | 767.4 | | 86.3325 | |
| 13:07:15 | 762.5 | | 85.78125 | |



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| 13:07:45 | 801 | | 90.1125 | |
| 13:08:15 | 795.3 | | 89.47125 | |
| 13:08:45 | 790.4 | | 88.92 | |
| 13:09:15 | 789.9 | | 88.86375 | |
| 13:09:45 | 788.9 | | 88.75125 | |
| 13:10:15 | 790.1 | | 88.88625 | |
| 13:10:45 | 791 | | 88.9875 | |
| 13:11:15 | 792 | | 89.1 | |
| 13:11:45 | 797.3 | | 89.69625 | |
| 13:12:15 | 795.1 | | 89.44875 | |
| 13:12:45 | 800.2 | | 90.0225 | |
| 13:13:15 | 803.2 | | 90.36 | |
| 13:13:45 | 815.4 | | 91.7325 | |
| 13:14:15 | 811.9 | | 91.33875 | |
| 13:14:45 | 819.8 | | 92.2275 | |
| 13:15:15 | 811.9 | | 91.33875 | |
| 13:15:45 | 803.2 | | 90.36 | |
| 13:16:15 | 799.4 | | 89.9325 | |
| 13:16:45 | 791.8 | | 89.0775 | |
| 13:17:15 | 793.4 | | 89.2575 | |
| 13:17:45 | 796.2 | | 89.5725 | |
| 13:18:15 | 805.3 | | 90.59625 | |
| 13:18:45 | 804.6 | | 90.5175 | |
| 13:19:15 | 205.5 | | 23.11875 | |
| 13:19:45 | 166.1 | | 18.68625 | |
| 13:20:15 | 205.8 | | 23.1525 | |
| 13:20:45 | 799.7 | | 89.96625 | |
| 13:21:15 | 783.6 | | 88.155 | |
| 13:21:45 | 787.2 | | 88.56 | |
| 13:22:15 | 790.4 | | 88.92 | |
| 13:22:45 | 785.8 | | 88.4025 | |
| 13:23:15 | 778.7 | | 87.60375 | |
| 13:23:45 | 779.9 | | 87.73875 | |
| 13:24:15 | 778.3 | | 87.55875 | |
| 13:24:45 | 779.1 | | 87.64875 | |
| 13:25:15 | 779.6 | | 87.705 | |
| 13:25:45 | 777.9 | | 87.51375 | |
| 13:26:15 | 775.5 | | 87.24375 | |
| 13:26:45 | 782.9 | | 88.07625 | |
| 13:27:15 | 372 | | 41.85 | |
| 13:27:45 | 781.2 | | 87.885 | |
| 13:28:15 | 774.1 | | 87.08625 | |

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| 13:28:45 | 775.6 | | 87.255 | |
| 13:29:15 | 780.6 | | 87.8175 | |
| 13:29:45 | 781.8 | | 87.9525 | |
| 13:30:15 | 783.9 | | 88.18875 | |
| 13:30:45 | 173.4 | | 19.5075 | |
| 13:31:15 | 801.8 | | 90.2025 | |
| 13:31:45 | 295 | | 33.1875 | |
| 13:32:15 | 837.7 | | 94.24125 | |
| 13:32:45 | 183 | | 20.5875 | |
| 13:33:15 | 137.9 | | 15.51375 | |
| 13:33:45 | 153.4 | | 17.2575 | |
| 13:34:15 | 760.3 | | 85.53375 | |
| 13:34:45 | 747.8 | | 84.1275 | |
| 13:35:15 | 738.9 | | 83.12625 | |
| 13:35:45 | 738.9 | | 83.12625 | |
| 13:36:15 | 734.2 | | 82.5975 | |
| 13:36:45 | 734.6 | | 82.6425 | |
| 13:37:15 | 736.5 | | 82.85625 | |
| 13:37:45 | 732.6 | | 82.4175 | |
| 13:38:15 | 739.9 | | 83.23875 | |
| 13:38:45 | 731.5 | | 82.29375 | |
| 13:39:15 | 738.6 | | 83.0925 | |
| 13:39:45 | 744.6 | | 83.7675 | |
| 13:40:15 | 740.6 | | 83.3175 | |
| 13:40:45 | 750.1 | | 84.38625 | |
| 13:41:15 | 744.1 | | 83.71125 | |
| 13:41:45 | 725.8 | | 81.6525 | |
| 13:42:15 | 720.1 | | 81.01125 | |
| 13:42:45 | 721.6 | | 81.18 | |
| 13:43:15 | 715.1 | | 80.44875 | |
| 13:43:45 | 710.4 | | 79.92 | |
| 13:44:15 | 716.3 | | 80.58375 | |
| 13:44:45 | 712 | | 80.1 | |
| 13:45:15 | 706.9 | | 79.52625 | |
| 13:45:45 | 707.7 | | 79.61625 | |
| 13:46:15 | 712.8 | | 80.19 | |
| 13:46:45 | 706.9 | | 79.52625 | |
| 13:47:15 | 708.2 | | 79.6725 | |
| 13:47:45 | 703 | | 79.0875 | |
| 13:48:15 | 704.4 | | 79.245 | |
| 13:48:45 | 708 | | 79.65 | |
| 13:49:15 | 707.4 | | 79.5825 | |



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|----------|-------|--|----------|--|
| 13:49:45 | 702.3 | | 79.00875 | |
| 13:50:15 | 703.1 | | 79.09875 | |
| 13:50:45 | 702.8 | | 79.065 | |
| 13:51:15 | 703.1 | | 79.09875 | |
| 13:51:45 | 701.1 | | 78.87375 | |
| 13:52:15 | 695.5 | | 78.24375 | |
| 13:52:45 | 697.9 | | 78.51375 | |
| 13:53:15 | 701.2 | | 78.885 | |
| 13:53:45 | 696.3 | | 78.33375 | |
| 13:54:15 | 693.1 | | 77.97375 | |
| 13:54:45 | 691.7 | | 77.81625 | |
| 13:55:15 | 690.8 | | 77.715 | |
| 13:55:45 | 684.9 | | 77.05125 | |
| 13:56:15 | 682 | | 76.725 | |
| 13:56:45 | 678.6 | | 76.3425 | |
| 13:57:15 | 680.1 | | 76.51125 | |
| 13:57:45 | 672.9 | | 75.70125 | |
| 13:58:15 | 679.2 | | 76.41 | |
| 13:58:45 | 679.4 | | 76.4325 | |
| 13:59:15 | 678.6 | | 76.3425 | |
| 13:59:45 | 673.2 | | 75.735 | |
| 14:00:15 | 670.6 | | 75.4425 | |
| 14:00:45 | 664.8 | | 74.79 | |
| 14:01:15 | 664.3 | | 74.73375 | |
| 14:01:45 | 665.3 | | 74.84625 | |
| 14:02:15 | 657.7 | | 73.99125 | |
| 14:02:45 | 662.1 | | 74.48625 | |
| 14:03:15 | 667.8 | | 75.1275 | |
| 14:03:45 | 616.5 | | 69.35625 | |
| 14:04:15 | 654.3 | | 73.60875 | |
| 14:04:45 | 653.5 | | 73.51875 | |
| 14:05:15 | 658.4 | | 74.07 | |
| 14:05:45 | 654.8 | | 73.665 | |
| 14:06:15 | 657.2 | | 73.935 | |
| 14:06:45 | 656.4 | | 73.845 | |
| 14:07:15 | 649.4 | | 73.0575 | |
| 14:07:45 | 656.7 | | 73.87875 | |
| 14:08:15 | 656.9 | | 73.90125 | |
| 14:08:45 | 652 | | 73.35 | |
| 14:09:15 | 654.3 | | 73.60875 | |
| 14:09:45 | 650.8 | | 73.215 | |
| 14:10:15 | 655.1 | | 73.69875 | |

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| 14:10:45 | 647.5 | | 72.84375 | |
| 14:11:15 | 644 | | 72.45 | |
| 14:11:45 | 643.9 | | 72.43875 | |
| 14:12:15 | 646.7 | | 72.75375 | |
| 14:12:45 | 633.6 | | 71.28 | |
| 14:13:15 | 639.9 | | 71.98875 | |
| 14:13:45 | 637.4 | | 71.7075 | |
| 14:14:15 | 638.3 | | 71.80875 | |
| 14:14:45 | 633.7 | | 71.29125 | |
| 14:15:15 | 635.6 | | 71.505 | |
| 14:15:45 | 629.8 | | 70.8525 | |
| 14:16:15 | 624.2 | | 70.2225 | |
| 14:16:45 | 630.1 | | 70.88625 | |
| 14:17:15 | 630.4 | | 70.92 | |
| 14:17:45 | 626.8 | | 70.515 | |
| 14:18:15 | 630.6 | | 70.9425 | |
| 14:18:45 | 627.3 | | 70.57125 | |
| 14:19:15 | 626 | | 70.425 | |
| 14:19:45 | 623.4 | | 70.1325 | |
| 14:20:15 | 619.8 | | 69.7275 | |
| 14:20:45 | 618.7 | | 69.60375 | |
| 14:21:15 | 611.1 | | 68.74875 | |
| 14:21:45 | 615.2 | | 69.21 | |
| 14:22:15 | 613 | | 68.9625 | |
| 14:22:45 | 614.1 | | 69.08625 | |
| 14:23:15 | 613.5 | | 69.01875 | |
| 14:23:45 | 609.4 | | 68.5575 | |
| 14:24:15 | 609.2 | | 68.535 | |
| 14:24:45 | 608.1 | | 68.41125 | |
| 14:25:15 | 605.4 | | 68.1075 | |
| 14:25:45 | 600.2 | | 67.5225 | |
| 14:26:15 | 596.2 | | 67.0725 | |
| 14:26:45 | 600.5 | | 67.55625 | |
| 14:27:15 | 592.6 | | 66.6675 | |
| 14:27:45 | 596.7 | | 67.12875 | |
| 14:28:15 | 595.3 | | 66.97125 | |
| 14:28:45 | 588.9 | | 66.25125 | |
| 14:29:15 | 584 | | 65.7 | |
| 14:29:45 | 589.1 | | 66.27375 | |
| 14:30:15 | 588 | | 66.15 | |
| 14:30:45 | 582.4 | | 65.52 | |
| 14:31:15 | 583.1 | | 65.59875 | |



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|----------|-------|--|----------|--|
| 14:31:45 | 583.1 | | 65.59875 | |
| 14:32:15 | 580.2 | | 65.2725 | |
| 14:32:45 | 576.7 | | 64.87875 | |
| 14:33:15 | 582 | | 65.475 | |
| 14:33:45 | 581.5 | | 65.41875 | |
| 14:34:15 | 580.8 | | 65.34 | |
| 14:34:45 | 577.7 | | 64.99125 | |
| 14:35:15 | 574.5 | | 64.63125 | |
| 14:35:45 | 571.5 | | 64.29375 | |
| 14:36:15 | 573.9 | | 64.56375 | |
| 14:36:45 | 575 | | 64.6875 | |
| 14:37:15 | 573.2 | | 64.485 | |
| 14:37:45 | 572.6 | | 64.4175 | |
| 14:38:15 | 568.5 | | 63.95625 | |
| 14:38:45 | 565.8 | | 63.6525 | |
| 14:39:15 | 561.2 | | 63.135 | |
| 14:39:45 | 555.4 | | 62.4825 | |
| 14:40:15 | 558.4 | | 62.82 | |
| 14:40:45 | 557.3 | | 62.69625 | |
| 14:41:15 | 556 | | 62.55 | |
| 14:41:45 | 554.7 | | 62.40375 | |
| 14:42:15 | 550.1 | | 61.88625 | |
| 14:42:45 | 547.7 | | 61.61625 | |
| 14:43:15 | 547.3 | | 61.57125 | |
| 14:43:45 | 543.2 | | 61.11 | |
| 14:44:15 | 544.3 | | 61.23375 | |
| 14:44:45 | 537 | | 60.4125 | |
| 14:45:15 | 537.8 | | 60.5025 | |
| 14:45:45 | 538.2 | | 60.5475 | |
| 14:46:15 | 541.1 | | 60.87375 | |
| 14:46:45 | 532.7 | | 59.92875 | |
| 14:47:15 | 529.9 | | 59.61375 | |
| 14:47:45 | 535.2 | | 60.21 | |
| 14:48:15 | 532.1 | | 59.86125 | |
| 14:48:45 | 529.5 | | 59.56875 | |
| 14:49:15 | 533.3 | | 59.99625 | |
| 14:49:45 | 531.1 | | 59.74875 | |
| 14:50:15 | 531 | | 59.7375 | |
| 14:50:45 | 521.5 | | 58.66875 | |
| 14:51:15 | 524.8 | | 59.04 | |
| 14:51:45 | 524.3 | | 58.98375 | |
| 14:52:15 | 523.8 | | 58.9275 | |

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| 14:52:45 | 518 | | 58.275 | |
| 14:53:15 | 515.6 | | 58.005 | |
| 14:53:45 | 515.6 | | 58.005 | |
| 14:54:15 | 511.6 | | 57.555 | |
| 14:54:45 | 508.6 | | 57.2175 | |
| 14:55:15 | 501.2 | | 56.385 | |
| 14:55:45 | 501.5 | | 56.41875 | |
| 14:56:15 | 503.1 | | 56.59875 | |
| 14:56:45 | 504.4 | | 56.745 | |
| 14:57:15 | 502.9 | | 56.57625 | |
| 14:57:45 | 502.1 | | 56.48625 | |
| 14:58:15 | 504.5 | | 56.75625 | |
| 14:58:45 | 490.7 | | 55.20375 | |
| 14:59:15 | 486.5 | | 54.73125 | |
| 14:59:45 | 486.6 | | 54.7425 | |
| 15:00:15 | 484.2 | | 54.4725 | |
| 15:00:45 | 484.9 | | 54.55125 | |
| Average | 747.5 | | 84.09163578 | |



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Appendix Table 8, Daily solar irradiance 27 June 2019

| Site Name: | Syafira Hotel Rooftop | Date: | 27/06/2019 | Equipment: |
|------------|--------------------------------------|----------------------------|-------------------------------------|------------|
| Location: | | | | |
| | Lat: | | Long: | |
| Elevation: | + 1 meter | | Time Zone: | WITA |
| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark |
| 09:00:20 | 226.9 | | 25.52625 | |
| 09:00:50 | 121.4 | | 13.6575 | |
| 09:01:20 | 127.4 | | 14.3325 | |
| 09:01:50 | 147.2 | | 16.56 | |
| 09:02:20 | 145.6 | | 16.38 | |
| 09:02:50 | 143.6 | | 16.155 | |
| 09:03:20 | 142.6 | | 16.0425 | |
| 09:03:50 | 146.4 | | 16.47 | |
| 09:04:20 | 471.9 | | 53.08875 | |
| 09:04:50 | 572.6 | | 64.4175 | |
| 09:05:20 | 615.5 | | 69.24375 | |
| 09:05:50 | 339.8 | | 38.2275 | |
| 09:06:20 | 391.3 | | 44.02125 | |
| 09:06:50 | 159.7 | | 17.96625 | |
| 09:07:20 | 333.9 | | 37.56375 | |
| 09:07:50 | 574.8 | | 64.665 | |
| 09:08:20 | 155.5 | | 17.49375 | |
| 09:08:50 | 149 | | 16.7625 | |
| 09:09:20 | 193.9 | | 21.81375 | |
| 09:09:50 | 163.9 | | 18.43875 | |
| 09:10:20 | 182.5 | | 20.53125 | |
| 09:10:50 | 684.6 | | 77.0175 | |
| 09:11:20 | 666.2 | | 74.9475 | |
| 09:11:50 | 327 | | 36.7875 | |
| 09:12:20 | 645.1 | | 72.57375 | |
| 09:12:50 | 632.5 | | 71.15625 | |
| 09:13:20 | 603 | | 67.8375 | |
| 09:13:50 | 623.9 | | 70.18875 | |
| 09:14:20 | 629.6 | | 70.83 | |
| 09:14:50 | 348.2 | | 39.1725 | |
| 09:15:20 | 128.4 | | 14.445 | |
| 09:15:50 | 122.7 | | 13.80375 | |
| 09:16:20 | 259.5 | | 29.19375 | |

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| 09:16:50 | 128.4 | | 14.445 | |
| 09:17:20 | 168.1 | | 18.91125 | |
| 09:17:50 | 663 | | 74.5875 | |
| 09:18:20 | 683.6 | | 76.905 | |
| 09:18:50 | 690.4 | | 77.67 | |
| 09:19:20 | 694.7 | | 78.15375 | |
| 09:19:50 | 189.4 | | 21.3075 | |
| 09:20:20 | 273.1 | | 30.72375 | |
| 09:20:50 | 142.6 | | 16.0425 | |
| 09:21:20 | 141.7 | | 15.94125 | |
| 09:21:50 | 140.9 | | 15.85125 | |
| 09:22:20 | 142.6 | | 16.0425 | |
| 09:22:50 | 161.3 | | 18.14625 | |
| 09:23:20 | 592.7 | | 66.67875 | |
| 09:23:50 | 724.6 | | 81.5175 | |
| 09:24:20 | 756.2 | | 85.0725 | |
| 09:24:50 | 457.5 | | 51.46875 | |
| 09:25:20 | 162.4 | | 18.27 | |
| 09:25:50 | 150.9 | | 16.97625 | |
| 09:26:20 | 162.3 | | 18.25875 | |
| 09:26:50 | 182.2 | | 20.4975 | |
| 09:27:20 | 265.1 | | 29.82375 | |
| 09:27:50 | 283.3 | | 31.87125 | |
| 09:28:20 | 669.5 | | 75.31875 | |
| 09:28:50 | 740.8 | | 83.34 | |
| 09:29:20 | 166.4 | | 18.72 | |
| 09:29:50 | 159.3 | | 17.92125 | |
| 09:30:20 | 219.9 | | 24.73875 | |
| 09:30:50 | 745.2 | | 83.835 | |
| 09:31:20 | 737 | | 82.9125 | |
| 09:31:50 | 731.9 | | 82.33875 | |
| 09:32:20 | 725.1 | | 81.57375 | |
| 09:32:50 | 725 | | 81.5625 | |
| 09:33:20 | 716.1 | | 80.56125 | |
| 09:33:50 | 717 | | 80.6625 | |
| 09:34:20 | 174 | | 19.575 | |
| 09:34:50 | 737.8 | | 83.0025 | |
| 09:35:20 | 618.7 | | 69.60375 | |
| 09:35:50 | 316.7 | | 35.62875 | |
| 09:36:20 | 315.4 | | 35.4825 | |
| 09:36:50 | 541.1 | | 60.87375 | |
| 09:37:20 | 743.2 | | 83.61 | |



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|----------|-------|--|----------|--|
| 09:37:50 | 709.9 | | 79.86375 | |
| 09:38:20 | 708.5 | | 79.70625 | |
| 09:38:50 | 706.4 | | 79.47 | |
| 09:39:20 | 713.1 | | 80.22375 | |
| 09:39:50 | 719.1 | | 80.89875 | |
| 09:40:20 | 717 | | 80.6625 | |
| 09:40:50 | 721.2 | | 81.135 | |
| 09:41:20 | 712.5 | | 80.15625 | |
| 09:41:50 | 705.3 | | 79.34625 | |
| 09:42:20 | 696.6 | | 78.3675 | |
| 09:42:50 | 695.5 | | 78.24375 | |
| 09:43:20 | 702.6 | | 79.0425 | |
| 09:43:50 | 706.4 | | 79.47 | |
| 09:44:20 | 717.4 | | 80.7075 | |
| 09:44:50 | 731.8 | | 82.3275 | |
| 09:45:20 | 754.3 | | 84.85875 | |
| 09:45:50 | 342.7 | | 38.55375 | |
| 09:46:20 | 764.1 | | 85.96125 | |
| 09:46:50 | 296.1 | | 33.31125 | |
| 09:47:20 | 166.2 | | 18.6975 | |
| 09:47:50 | 786.4 | | 88.47 | |
| 09:48:20 | 776.8 | | 87.39 | |
| 09:48:50 | 763.1 | | 85.84875 | |
| 09:49:20 | 204.4 | | 22.995 | |
| 09:49:50 | 586.5 | | 65.98125 | |
| 09:50:20 | 190.9 | | 21.47625 | |
| 09:50:50 | 188.2 | | 21.1725 | |
| 09:51:20 | 206.1 | | 23.18625 | |
| 09:51:50 | 180.6 | | 20.3175 | |
| 09:52:20 | 198.2 | | 22.2975 | |
| 09:52:50 | 225.3 | | 25.34625 | |
| 09:53:20 | 248.1 | | 27.91125 | |
| 09:53:50 | 844.4 | | 94.995 | |
| 09:54:20 | 247.8 | | 27.8775 | |
| 09:54:50 | 235.4 | | 26.4825 | |
| 09:55:20 | 549 | | 61.7625 | |
| 09:55:50 | 808.1 | | 90.91125 | |
| 09:56:20 | 823.8 | | 92.6775 | |
| 09:56:50 | 176.8 | | 19.89 | |
| 09:57:20 | 190.6 | | 21.4425 | |
| 09:57:50 | 181.6 | | 20.43 | |
| 09:58:20 | 820.9 | | 92.35125 | |

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| 09:58:50 | 833.6 | | 93.78 | |
| 09:59:20 | 804.6 | | 90.5175 | |
| 09:59:50 | 163.5 | | 18.39375 | |
| 10:00:20 | 829.6 | | 93.33 | |
| 10:00:50 | 860.2 | | 96.7725 | |
| 10:01:20 | 206.8 | | 23.265 | |
| 10:01:50 | 902.8 | | 101.565 | |
| 10:02:20 | 877.2 | | 98.685 | |
| 10:02:50 | 315.9 | | 35.53875 | |
| 10:03:20 | 272.8 | | 30.69 | |
| 10:03:50 | 232.3 | | 26.13375 | |
| 10:04:20 | 861 | | 96.8625 | |
| 10:04:50 | 786.9 | | 88.52625 | |
| 10:05:20 | 816.5 | | 91.85625 | |
| 10:05:50 | 809.5 | | 91.06875 | |
| 10:06:20 | 818.4 | | 92.07 | |
| 10:06:50 | 832.7 | | 93.67875 | |
| 10:07:20 | 574.4 | | 64.62 | |
| 10:07:50 | 554.7 | | 62.40375 | |
| 10:08:20 | 859.7 | | 96.71625 | |
| 10:08:50 | 864.8 | | 97.29 | |
| 10:09:20 | 851.5 | | 95.79375 | |
| 10:09:50 | 489.9 | | 55.11375 | |
| 10:10:20 | 856.6 | | 96.3675 | |
| 10:10:50 | 858.5 | | 96.58125 | |
| 10:11:20 | 849.3 | | 95.54625 | |
| 10:11:50 | 850.2 | | 95.6475 | |
| 10:12:20 | 853.9 | | 96.06375 | |
| 10:12:50 | 859.9 | | 96.73875 | |
| 10:13:20 | 201.7 | | 22.69125 | |
| 10:13:50 | 250.6 | | 28.1925 | |
| 10:14:20 | 246.1 | | 27.68625 | |
| 10:14:50 | 239.2 | | 26.91 | |
| 10:15:20 | 244.6 | | 27.5175 | |
| 10:15:50 | 260.6 | | 29.3175 | |
| 10:16:20 | 260 | | 29.25 | |
| 10:16:50 | 213.9 | | 24.06375 | |
| 10:17:20 | 492.3 | | 55.38375 | |
| 10:17:50 | 887.1 | | 99.79875 | |
| 10:18:20 | 884.1 | | 99.46125 | |
| 10:18:50 | 891.6 | | 100.305 | |
| 10:19:20 | 898.5 | | 101.08125 | |



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| 10:19:50 | 923.1 | | 103.84875 | |
| 10:20:20 | 921 | | 103.6125 | |
| 10:20:50 | 444.8 | | 50.04 | |
| 10:21:20 | 381.5 | | 42.91875 | |
| 10:21:50 | 853.9 | | 96.06375 | |
| 10:22:20 | 844.5 | | 95.00625 | |
| 10:22:50 | 839.5 | | 94.44375 | |
| 10:23:20 | 841.4 | | 94.6575 | |
| 10:23:50 | 851.5 | | 95.79375 | |
| 10:24:20 | 871.3 | | 98.02125 | |
| 10:24:50 | 827.4 | | 93.0825 | |
| 10:25:20 | 864.2 | | 97.2225 | |
| 10:25:50 | 871.6 | | 98.055 | |
| 10:26:20 | 888.1 | | 99.91125 | |
| 10:26:50 | 761.2 | | 85.635 | |
| 10:27:20 | 286.3 | | 32.20875 | |
| 10:27:50 | 239.4 | | 26.9325 | |
| 10:28:20 | 231.6 | | 26.055 | |
| 10:28:50 | 235.3 | | 26.47125 | |
| 10:29:20 | 237.7 | | 26.74125 | |
| 10:29:50 | 249.7 | | 28.09125 | |
| 10:30:20 | 314.3 | | 35.35875 | |
| 10:30:50 | 1002 | | 112.725 | |
| 10:31:20 | 846.1 | | 95.18625 | |
| 10:31:50 | 277.7 | | 31.24125 | |
| 10:32:20 | 754.3 | | 84.85875 | |
| 10:32:50 | 918.2 | | 103.2975 | |
| 10:33:20 | 953.5 | | 107.26875 | |
| 10:33:50 | 431.5 | | 48.54375 | |
| 10:34:20 | 243 | | 27.3375 | |
| 10:34:50 | 276.1 | | 31.06125 | |
| 10:35:20 | 276.6 | | 31.1175 | |
| 10:35:50 | 241 | | 27.1125 | |
| 10:36:20 | 222.9 | | 25.07625 | |
| 10:36:50 | 232.6 | | 26.1675 | |
| 10:37:20 | 959.5 | | 107.94375 | |
| 10:37:50 | 938.9 | | 105.62625 | |
| 10:38:20 | 932.1 | | 104.86125 | |
| 10:38:50 | 921.7 | | 103.69125 | |
| 10:39:20 | 771.4 | | 86.7825 | |
| 10:39:50 | 914.5 | | 102.88125 | |
| 10:40:20 | 916.3 | | 103.08375 | |

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| 10:40:50 | 922.3 | | 103.75875 | |
| 10:41:20 | 920.6 | | 103.5675 | |
| 10:41:50 | 912 | | 102.6 | |
| 10:42:20 | 908.4 | | 102.195 | |
| 10:42:50 | 917.9 | | 103.26375 | |
| 10:43:20 | 196.5 | | 22.10625 | |
| 10:43:50 | 923.2 | | 103.86 | |
| 10:44:20 | 364 | | 40.95 | |
| 10:44:50 | 936.1 | | 105.31125 | |
| 10:45:20 | 916 | | 103.05 | |
| 10:45:50 | 895.1 | | 100.69875 | |
| 10:46:20 | 916.3 | | 103.08375 | |
| 10:46:50 | 274.2 | | 30.8475 | |
| 10:47:20 | 284.4 | | 31.995 | |
| 10:47:50 | 269.8 | | 30.3525 | |
| 10:48:20 | 525.9 | | 59.16375 | |
| 10:48:50 | 911 | | 102.4875 | |
| 10:49:20 | 909.9 | | 102.36375 | |
| 10:49:50 | 897.9 | | 101.01375 | |
| 10:50:20 | 897.1 | | 100.92375 | |
| 10:50:50 | 897.7 | | 100.99125 | |
| 10:51:20 | 892.5 | | 100.40625 | |
| 10:51:50 | 900.1 | | 101.26125 | |
| 10:52:20 | 904.1 | | 101.71125 | |
| 10:52:50 | 916.3 | | 103.08375 | |
| 10:53:20 | 913.4 | | 102.7575 | |
| 10:53:50 | 918.7 | | 103.35375 | |
| 10:54:20 | 932.3 | | 104.88375 | |
| 10:54:50 | 928.2 | | 104.4225 | |
| 10:55:20 | 868.8 | | 97.74 | |
| 10:55:50 | 954.1 | | 107.33625 | |
| 10:56:20 | 943.7 | | 106.16625 | |
| 10:56:50 | 850.7 | | 95.70375 | |
| 10:57:20 | 177.2 | | 19.935 | |
| 10:57:50 | 957.6 | | 107.73 | |
| 10:58:20 | 955.1 | | 107.44875 | |
| 10:58:50 | 933.9 | | 105.06375 | |
| 10:59:20 | 922.5 | | 103.78125 | |
| 10:59:50 | 910.6 | | 102.4425 | |
| 11:00:20 | 910.9 | | 102.47625 | |
| 11:00:50 | 898.1 | | 101.03625 | |
| 11:01:20 | 897.9 | | 101.01375 | |



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| 11:01:50 | 905.7 | | 101.89125 | |
| 11:02:20 | 909.6 | | 102.33 | |
| 11:02:50 | 904.4 | | 101.745 | |
| 11:03:20 | 906.1 | | 101.93625 | |
| 11:03:50 | 906.8 | | 102.015 | |
| 11:04:20 | 907.6 | | 102.105 | |
| 11:04:50 | 919.9 | | 103.48875 | |
| 11:05:20 | 704.5 | | 79.25625 | |
| 11:05:50 | 181.1 | | 20.37375 | |
| 11:06:20 | 153.9 | | 17.31375 | |
| 11:06:50 | 159.6 | | 17.955 | |
| 11:07:20 | 165.1 | | 18.57375 | |
| 11:07:50 | 220.6 | | 24.8175 | |
| 11:08:20 | 986.3 | | 110.95875 | |
| 11:08:50 | 968.5 | | 108.95625 | |
| 11:09:20 | 969.2 | | 109.035 | |
| 11:09:50 | 987.5 | | 111.09375 | |
| 11:10:20 | 1014 | | 114.075 | |
| 11:10:50 | 222.1 | | 24.98625 | |
| 11:11:20 | 198.1 | | 22.28625 | |
| 11:11:50 | 199 | | 22.3875 | |
| 11:12:20 | 242.3 | | 27.25875 | |
| 11:12:50 | 1010 | | 113.625 | |
| 11:13:20 | 992.1 | | 111.61125 | |
| 11:13:50 | 977.7 | | 109.99125 | |
| 11:14:20 | 967.9 | | 108.88875 | |
| 11:14:50 | 959 | | 107.8875 | |
| 11:15:20 | 955.6 | | 107.505 | |
| 11:15:50 | 946 | | 106.425 | |
| 11:16:20 | 946 | | 106.425 | |
| 11:16:50 | 964.7 | | 108.52875 | |
| 11:17:20 | 955.2 | | 107.46 | |
| 11:17:50 | 937.7 | | 105.49125 | |
| 11:18:20 | 942.2 | | 105.9975 | |
| 11:18:50 | 895.8 | | 100.7775 | |
| 11:19:20 | 945.9 | | 106.41375 | |
| 11:19:50 | 949.1 | | 106.77375 | |
| 11:20:20 | 948.9 | | 106.75125 | |
| 11:20:50 | 944.6 | | 106.2675 | |
| 11:21:20 | 938 | | 105.525 | |
| 11:21:50 | 932.1 | | 104.86125 | |
| 11:22:20 | 926.7 | | 104.25375 | |

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| 11:22:50 | 928.9 | | 104.50125 | |
| 11:23:20 | 926.1 | | 104.18625 | |
| 11:23:50 | 931.5 | | 104.79375 | |
| 11:24:20 | 873.8 | | 98.3025 | |
| 11:24:50 | 959.5 | | 107.94375 | |
| 11:25:20 | 968.9 | | 109.00125 | |
| 11:25:50 | 969.2 | | 109.035 | |
| 11:26:20 | 962 | | 108.225 | |
| 11:26:50 | 973.6 | | 109.53 | |
| 11:27:20 | 996.6 | | 112.1175 | |
| 11:27:50 | 423 | | 47.5875 | |
| 11:28:20 | 407.6 | | 45.855 | |
| 11:28:50 | 1075 | | 120.9375 | |
| 11:29:20 | 314.3 | | 35.35875 | |
| 11:29:50 | 255.7 | | 28.76625 | |
| 11:30:20 | 1023 | | 115.0875 | |
| 11:30:50 | 1072 | | 120.6 | |
| 11:31:20 | 1041 | | 117.1125 | |
| 11:31:50 | 1037 | | 116.6625 | |
| 11:32:20 | 1031 | | 115.9875 | |
| 11:32:50 | 910.3 | | 102.40875 | |
| 11:33:20 | 357.1 | | 40.17375 | |
| 11:33:50 | 579.9 | | 65.23875 | |
| 11:34:20 | 274.9 | | 30.92625 | |
| 11:34:50 | 243 | | 27.3375 | |
| 11:35:20 | 276.5 | | 31.10625 | |
| 11:35:50 | 251.8 | | 28.3275 | |
| 11:36:20 | 575.1 | | 64.69875 | |
| 11:36:50 | 1008 | | 113.4 | |
| 11:37:20 | 997.4 | | 112.2075 | |
| 11:37:50 | 986.9 | | 111.02625 | |
| 11:38:20 | 984.1 | | 110.71125 | |
| 11:38:50 | 988.7 | | 111.22875 | |
| 11:39:20 | 585 | | 65.8125 | |
| 11:39:50 | 180.8 | | 20.34 | |
| 11:40:20 | 163.5 | | 18.39375 | |
| 11:40:50 | 160.4 | | 18.045 | |
| 11:41:20 | 161.5 | | 18.16875 | |
| 11:41:50 | 211.5 | | 23.79375 | |
| 11:42:20 | 678.9 | | 76.37625 | |
| 11:42:50 | 995.6 | | 112.005 | |
| 11:43:20 | 995.5 | | 111.99375 | |



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| 11:43:50 | 200.8 | | 22.59 | |
| 11:44:20 | 192.8 | | 21.69 | |
| 11:44:50 | 188.6 | | 21.2175 | |
| 11:45:20 | 191.6 | | 21.555 | |
| 11:45:50 | 338.4 | | 38.07 | |
| 11:46:20 | 178.3 | | 20.05875 | |
| 11:46:50 | 961.7 | | 108.19125 | |
| 11:47:20 | 952.9 | | 107.20125 | |
| 11:47:50 | 968.1 | | 108.91125 | |
| 11:48:20 | 973.8 | | 109.5525 | |
| 11:48:50 | 986.9 | | 111.02625 | |
| 11:49:20 | 1005 | | 113.0625 | |
| 11:49:50 | 1042 | | 117.225 | |
| 11:50:20 | 1029 | | 115.7625 | |
| 11:50:50 | 263.5 | | 29.64375 | |
| 11:51:20 | 282.5 | | 31.78125 | |
| 11:51:50 | 194.4 | | 21.87 | |
| 11:52:20 | 209.5 | | 23.56875 | |
| 11:52:50 | 473.2 | | 53.235 | |
| 11:53:20 | 785.3 | | 88.34625 | |
| 11:53:50 | 230.8 | | 25.965 | |
| 11:54:20 | 292.6 | | 32.9175 | |
| 11:54:50 | 1073 | | 120.7125 | |
| 11:55:20 | 224.2 | | 25.2225 | |
| 11:55:50 | 198.4 | | 22.32 | |
| 11:56:20 | 204.7 | | 23.02875 | |
| 11:56:50 | 1003 | | 112.8375 | |
| 11:57:20 | 983.9 | | 110.68875 | |
| 11:57:50 | 985.6 | | 110.88 | |
| 11:58:20 | 975.3 | | 109.72125 | |
| 11:58:50 | 957.8 | | 107.7525 | |
| 11:59:20 | 970.6 | | 109.1925 | |
| 11:59:50 | 994.7 | | 111.90375 | |
| 12:00:20 | 1008 | | 113.4 | |
| 12:00:50 | 289.1 | | 32.52375 | |
| 12:01:20 | 710.6 | | 79.9425 | |
| 12:01:50 | 951.1 | | 106.99875 | |
| 12:02:20 | 291.2 | | 32.76 | |
| 12:02:50 | 1027 | | 115.5375 | |
| 12:03:20 | 1044 | | 117.45 | |
| 12:03:50 | 508 | | 57.15 | |
| 12:04:20 | 1022 | | 114.975 | |

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| 12:04:50 | 594.9 | | 66.92625 | |
| 12:05:20 | 1028 | | 115.65 | |
| 12:05:50 | 1025 | | 115.3125 | |
| 12:06:20 | 222.6 | | 25.0425 | |
| 12:06:50 | 186.5 | | 20.98125 | |
| 12:07:20 | 162.8 | | 18.315 | |
| 12:07:50 | 141.7 | | 15.94125 | |
| 12:08:20 | 129.2 | | 14.535 | |
| 12:08:50 | 122.7 | | 13.80375 | |
| 12:09:20 | 125.2 | | 14.085 | |
| 12:09:50 | 132 | | 14.85 | |
| 12:10:20 | 141.2 | | 15.885 | |
| 12:10:50 | 168.1 | | 18.91125 | |
| 12:11:20 | 972.7 | | 109.42875 | |
| 12:11:50 | 977.9 | | 110.01375 | |
| 12:12:20 | 957.9 | | 107.76375 | |
| 12:12:50 | 952.9 | | 107.20125 | |
| 12:13:20 | 950.6 | | 106.9425 | |
| 12:13:50 | 945.9 | | 106.41375 | |
| 12:14:20 | 942.1 | | 105.98625 | |
| 12:14:50 | 955.9 | | 107.53875 | |
| 12:15:20 | 199.2 | | 22.41 | |
| 12:15:50 | 146.6 | | 16.4925 | |
| 12:16:20 | 179.7 | | 20.21625 | |
| 12:16:50 | 221.5 | | 24.91875 | |
| 12:17:20 | 963.9 | | 108.43875 | |
| 12:17:50 | 958.4 | | 107.82 | |
| 12:18:20 | 952.4 | | 107.145 | |
| 12:18:50 | 960.3 | | 108.03375 | |
| 12:19:20 | 967.3 | | 108.82125 | |
| 12:19:50 | 549.6 | | 61.83 | |
| 12:20:20 | 156.3 | | 17.58375 | |
| 12:20:50 | 162.4 | | 18.27 | |
| 12:21:20 | 176.4 | | 19.845 | |
| 12:21:50 | 216.9 | | 24.40125 | |
| 12:22:20 | 239.1 | | 26.89875 | |
| 12:22:50 | 317.6 | | 35.73 | |
| 12:23:20 | 1019 | | 114.6375 | |
| 12:23:50 | 985.6 | | 110.88 | |
| 12:24:20 | 991.7 | | 111.56625 | |
| 12:24:50 | 983.1 | | 110.59875 | |
| 12:25:20 | 974.6 | | 109.6425 | |



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| 12:25:50 | 971.2 | | 109.26 | |
| 12:26:20 | 972.2 | | 109.3725 | |
| 12:26:50 | 975.3 | | 109.72125 | |
| 12:27:20 | 973.4 | | 109.5075 | |
| 12:27:50 | 975.8 | | 109.7775 | |
| 12:28:20 | 980.1 | | 110.26125 | |
| 12:28:50 | 985 | | 110.8125 | |
| 12:29:20 | 987.1 | | 111.04875 | |
| 12:29:50 | 995.3 | | 111.97125 | |
| 12:30:20 | 999.3 | | 112.42125 | |
| 12:30:50 | 982.8 | | 110.565 | |
| 12:31:20 | 1000 | | 112.5 | |
| 12:31:50 | 1007 | | 113.2875 | |
| 12:32:20 | 1008 | | 113.4 | |
| 12:32:50 | 1000 | | 112.5 | |
| 12:33:20 | 999.1 | | 112.39875 | |
| 12:33:50 | 916.4 | | 103.095 | |
| 12:34:20 | 980.9 | | 110.35125 | |
| 12:34:50 | 976.3 | | 109.83375 | |
| 12:35:20 | 964.7 | | 108.52875 | |
| 12:35:50 | 956 | | 107.55 | |
| 12:36:20 | 954.9 | | 107.42625 | |
| 12:36:50 | 953.5 | | 107.26875 | |
| 12:37:20 | 958.2 | | 107.7975 | |
| 12:37:50 | 968.2 | | 108.9225 | |
| 12:38:20 | 974.7 | | 109.65375 | |
| 12:38:50 | 984.2 | | 110.7225 | |
| 12:39:20 | 982.5 | | 110.53125 | |
| 12:39:50 | 979.8 | | 110.2275 | |
| 12:40:20 | 977.1 | | 109.92375 | |
| 12:40:50 | 970.6 | | 109.1925 | |
| 12:41:20 | 969.3 | | 109.04625 | |
| 12:41:50 | 965.1 | | 108.57375 | |
| 12:42:20 | 967.7 | | 108.86625 | |
| 12:42:50 | 967.9 | | 108.88875 | |
| 12:43:20 | 967.6 | | 108.855 | |
| 12:43:50 | 979.9 | | 110.23875 | |
| 12:44:20 | 644 | | 72.45 | |
| 12:44:50 | 894.3 | | 100.60875 | |
| 12:45:20 | 980.9 | | 110.35125 | |
| 12:45:50 | 968.5 | | 108.95625 | |
| 12:46:20 | 958.1 | | 107.78625 | |

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| 12:46:50 | 950.2 | | 106.8975 | |
| 12:47:20 | 949.7 | | 106.84125 | |
| 12:47:50 | 938 | | 105.525 | |
| 12:48:20 | 917.2 | | 103.185 | |
| 12:48:50 | 900.6 | | 101.3175 | |
| 12:49:20 | 895.2 | | 100.71 | |
| 12:49:50 | 891.1 | | 100.24875 | |
| 12:50:20 | 887.5 | | 99.84375 | |
| 12:50:50 | 882.9 | | 99.32625 | |
| 12:51:20 | 885.1 | | 99.57375 | |
| 12:51:50 | 881.8 | | 99.2025 | |
| 12:52:20 | 887.1 | | 99.79875 | |
| 12:52:50 | 883.5 | | 99.39375 | |
| 12:53:20 | 881 | | 99.1125 | |
| 12:53:50 | 869.1 | | 97.77375 | |
| 12:54:20 | 868.6 | | 97.7175 | |
| 12:54:50 | 870.2 | | 97.8975 | |
| 12:55:20 | 887.9 | | 99.88875 | |
| 12:55:50 | 900.6 | | 101.3175 | |
| 12:56:20 | 904.9 | | 101.80125 | |
| 12:56:50 | 903.8 | | 101.6775 | |
| 12:57:20 | 906 | | 101.925 | |
| 12:57:50 | 856.9 | | 96.40125 | |
| 12:58:20 | 902.8 | | 101.565 | |
| 12:58:50 | 901.9 | | 101.46375 | |
| 12:59:20 | 900.8 | | 101.34 | |
| 12:59:50 | 906.6 | | 101.9925 | |
| 13:00:20 | 919.8 | | 103.4775 | |
| 13:00:50 | 907.4 | | 102.0825 | |
| 13:01:20 | 886.3 | | 99.70875 | |
| 13:01:50 | 884.6 | | 99.5175 | |
| 13:02:20 | 879.1 | | 98.89875 | |
| 13:02:50 | 868.9 | | 97.75125 | |
| 13:03:20 | 863.5 | | 97.14375 | |
| 13:03:50 | 347.3 | | 39.07125 | |
| 13:04:20 | 561.7 | | 63.19125 | |
| 13:04:50 | 885.9 | | 99.66375 | |
| 13:05:20 | 880.6 | | 99.0675 | |
| 13:05:50 | 876.7 | | 98.62875 | |
| 13:06:20 | 880.6 | | 99.0675 | |
| 13:06:50 | 881.8 | | 99.2025 | |
| 13:07:20 | 875.4 | | 98.4825 | |



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| 13:07:50 | 868.3 | | 97.68375 | |
| 13:08:20 | 870.7 | | 97.95375 | |
| 13:08:50 | 868.4 | | 97.695 | |
| 13:09:20 | 871.8 | | 98.0775 | |
| 13:09:50 | 883.7 | | 99.41625 | |
| 13:10:20 | 893.9 | | 100.56375 | |
| 13:10:50 | 901.4 | | 101.4075 | |
| 13:11:20 | 905.3 | | 101.84625 | |
| 13:11:50 | 930.8 | | 104.715 | |
| 13:12:20 | 852.9 | | 95.95125 | |
| 13:12:50 | 368.3 | | 41.43375 | |
| 13:13:20 | 325.7 | | 36.64125 | |
| 13:13:50 | 889 | | 100.0125 | |
| 13:14:20 | 874.9 | | 98.42625 | |
| 13:14:50 | 884.1 | | 99.46125 | |
| 13:15:20 | 872.9 | | 98.20125 | |
| 13:15:50 | 873.4 | | 98.2575 | |
| 13:16:20 | 871 | | 97.9875 | |
| 13:16:50 | 864.8 | | 97.29 | |
| 13:17:20 | 859.4 | | 96.6825 | |
| 13:17:50 | 839.8 | | 94.4775 | |
| 13:18:20 | 844.4 | | 94.995 | |
| 13:18:50 | 806.5 | | 90.73125 | |
| 13:19:20 | 842.6 | | 94.7925 | |
| 13:19:50 | 819 | | 92.1375 | |
| 13:20:20 | 866.1 | | 97.43625 | |
| 13:20:50 | 841.4 | | 94.6575 | |
| 13:21:20 | 776.9 | | 87.40125 | |
| 13:21:50 | 869.2 | | 97.785 | |
| 13:22:20 | 852.9 | | 95.95125 | |
| 13:22:50 | 839.1 | | 94.39875 | |
| 13:23:20 | 829.5 | | 93.31875 | |
| 13:23:50 | 833.1 | | 93.72375 | |
| 13:24:20 | 830.8 | | 93.465 | |
| 13:24:50 | 829 | | 93.2625 | |
| 13:25:20 | 826.6 | | 92.9925 | |
| 13:25:50 | 824.7 | | 92.77875 | |
| 13:26:20 | 817.9 | | 92.01375 | |
| 13:26:50 | 515 | | 57.9375 | |
| 13:27:20 | 815.7 | | 91.76625 | |
| 13:27:50 | 811.9 | | 91.33875 | |
| 13:28:20 | 814.6 | | 91.6425 | |

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| 13:28:50 | 812.7 | | 91.42875 | |
| 13:29:20 | 811.4 | | 91.2825 | |
| 13:29:50 | 662.6 | | 74.5425 | |
| 13:30:20 | 317.3 | | 35.69625 | |
| 13:30:50 | 792.6 | | 89.1675 | |
| 13:31:20 | 818.6 | | 92.0925 | |
| 13:31:50 | 658.9 | | 74.12625 | |
| 13:32:20 | 135.2 | | 15.21 | |
| 13:32:50 | 116.7 | | 13.12875 | |
| 13:33:20 | 119.4 | | 13.4325 | |
| 13:33:50 | 707.5 | | 79.59375 | |
| 13:34:20 | 801.8 | | 90.2025 | |
| 13:34:50 | 791.5 | | 89.04375 | |
| 13:35:20 | 782.5 | | 88.03125 | |
| 13:35:50 | 783.6 | | 88.155 | |
| 13:36:20 | 740.2 | | 83.2725 | |
| 13:36:50 | 781.2 | | 87.885 | |
| 13:37:20 | 785.9 | | 88.41375 | |
| 13:37:50 | 766.8 | | 86.265 | |
| 13:38:20 | 782 | | 87.975 | |
| 13:38:50 | 776.9 | | 87.40125 | |
| 13:39:20 | 768.4 | | 86.445 | |
| 13:39:50 | 769.3 | | 86.54625 | |
| 13:40:20 | 766 | | 86.175 | |
| 13:40:50 | 769 | | 86.5125 | |
| 13:41:20 | 771.5 | | 86.79375 | |
| 13:41:50 | 781 | | 87.8625 | |
| 13:42:20 | 773 | | 86.9625 | |
| 13:42:50 | 759.2 | | 85.41 | |
| 13:43:20 | 752.5 | | 84.65625 | |
| 13:43:50 | 748.6 | | 84.2175 | |
| 13:44:20 | 754.9 | | 84.92625 | |
| 13:44:50 | 715.8 | | 80.5275 | |
| 13:45:20 | 683 | | 76.8375 | |
| 13:45:50 | 758.2 | | 85.2975 | |
| 13:46:20 | 748.4 | | 84.195 | |
| 13:46:50 | 747.3 | | 84.07125 | |
| 13:47:20 | 750.5 | | 84.43125 | |
| 13:47:50 | 755.1 | | 84.94875 | |
| 13:48:20 | 761.2 | | 85.635 | |
| 13:48:50 | 756 | | 85.05 | |
| 13:49:20 | 756.8 | | 85.14 | |



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|----------|-------|--|----------|--|
| 13:49:50 | 757.4 | | 85.2075 | |
| 13:50:20 | 764.1 | | 85.96125 | |
| 13:50:50 | 779.9 | | 87.73875 | |
| 13:51:20 | 629.6 | | 70.83 | |
| 13:51:50 | 159.6 | | 17.955 | |
| 13:52:20 | 174 | | 19.575 | |
| 13:52:50 | 311.1 | | 34.99875 | |
| 13:53:20 | 830 | | 93.375 | |
| 13:53:50 | 237.8 | | 26.7525 | |
| 13:54:20 | 182.4 | | 20.52 | |
| 13:54:50 | 138.7 | | 15.60375 | |
| 13:55:20 | 127.4 | | 14.3325 | |
| 13:55:50 | 182.4 | | 20.52 | |
| 13:56:20 | 448.8 | | 50.49 | |
| 13:56:50 | 229.4 | | 25.8075 | |
| 13:57:20 | 765.5 | | 86.11875 | |
| 13:57:50 | 737.5 | | 82.96875 | |
| 13:58:20 | 729.9 | | 82.11375 | |
| 13:58:50 | 723.7 | | 81.41625 | |
| 13:59:20 | 718.5 | | 80.83125 | |
| 13:59:50 | 717.7 | | 80.74125 | |
| 14:00:20 | 718 | | 80.775 | |
| 14:00:50 | 713.4 | | 80.2575 | |
| 14:01:20 | 715.1 | | 80.44875 | |
| 14:01:50 | 713.9 | | 80.31375 | |
| 14:02:20 | 707.4 | | 79.5825 | |
| 14:02:50 | 713.6 | | 80.28 | |
| 14:03:20 | 722.6 | | 81.2925 | |
| 14:03:50 | 731.3 | | 82.27125 | |
| 14:04:20 | 744.1 | | 83.71125 | |
| 14:04:50 | 747 | | 84.0375 | |
| 14:05:20 | 741.1 | | 83.37375 | |
| 14:05:50 | 741 | | 83.3625 | |
| 14:06:20 | 744.8 | | 83.79 | |
| 14:06:50 | 740.6 | | 83.3175 | |
| 14:07:20 | 699.2 | | 78.66 | |
| 14:07:50 | 560.6 | | 63.0675 | |
| 14:08:20 | 130.3 | | 14.65875 | |
| 14:08:50 | 134.7 | | 15.15375 | |
| 14:09:20 | 275.4 | | 30.9825 | |
| 14:09:50 | 726.7 | | 81.75375 | |
| 14:10:20 | 712.5 | | 80.15625 | |

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| 14:10:50 | 714.2 | | 80.3475 | |
| 14:11:20 | 708.3 | | 79.68375 | |
| 14:11:50 | 708.5 | | 79.70625 | |
| 14:12:20 | 683.9 | | 76.93875 | |
| 14:12:50 | 693.9 | | 78.06375 | |
| 14:13:20 | 688.9 | | 77.50125 | |
| 14:13:50 | 685.8 | | 77.1525 | |
| 14:14:20 | 672.2 | | 75.6225 | |
| 14:14:50 | 666.5 | | 74.98125 | |
| 14:15:20 | 664.5 | | 74.75625 | |
| 14:15:50 | 665.9 | | 74.91375 | |
| 14:16:20 | 659.7 | | 74.21625 | |
| 14:16:50 | 680 | | 76.5 | |
| 14:17:20 | 697.7 | | 78.49125 | |
| 14:17:50 | 710.1 | | 79.88625 | |
| 14:18:20 | 713.7 | | 80.29125 | |
| 14:18:50 | 719.6 | | 80.955 | |
| 14:19:20 | 713.9 | | 80.31375 | |
| 14:19:50 | 707.9 | | 79.63875 | |
| 14:20:20 | 685.5 | | 77.11875 | |
| 14:20:50 | 706 | | 79.425 | |
| 14:21:20 | 693.3 | | 77.99625 | |
| 14:21:50 | 704.7 | | 79.27875 | |
| 14:22:20 | 157 | | 17.6625 | |
| 14:22:50 | 713.4 | | 80.2575 | |
| 14:23:20 | 707.1 | | 79.54875 | |
| 14:23:50 | 702.3 | | 79.00875 | |
| 14:24:20 | 703.4 | | 79.1325 | |
| 14:24:50 | 705.3 | | 79.34625 | |
| 14:25:20 | 699.8 | | 78.7275 | |
| 14:25:50 | 697.9 | | 78.51375 | |
| 14:26:20 | 472.5 | | 53.15625 | |
| 14:26:50 | 682.4 | | 76.77 | |
| 14:27:20 | 436.3 | | 49.08375 | |
| 14:27:50 | 707.1 | | 79.54875 | |
| 14:28:20 | 438.8 | | 49.365 | |
| 14:28:50 | 485.4 | | 54.6075 | |
| 14:29:20 | 166.2 | | 18.6975 | |
| 14:29:50 | 173.2 | | 19.485 | |
| 14:30:20 | 208 | | 23.4 | |
| 14:30:50 | 140.3 | | 15.78375 | |
| 14:31:20 | 529.1 | | 59.52375 | |



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| 14:31:50 | 278.7 | | 31.35375 | |
| 14:32:20 | 642.1 | | 72.23625 | |
| 14:32:50 | 537.6 | | 60.48 | |
| 14:33:20 | 161 | | 18.1125 | |
| 14:33:50 | 598.9 | | 67.37625 | |
| 14:34:20 | 598.7 | | 67.35375 | |
| 14:34:50 | 622.2 | | 69.9975 | |
| 14:35:20 | 614.6 | | 69.1425 | |
| 14:35:50 | 609.4 | | 68.5575 | |
| 14:36:20 | 602.5 | | 67.78125 | |
| 14:36:50 | 595.9 | | 67.03875 | |
| 14:37:20 | 590.2 | | 66.3975 | |
| 14:37:50 | 588 | | 66.15 | |
| 14:38:20 | 585.6 | | 65.88 | |
| 14:38:50 | 587.8 | | 66.1275 | |
| 14:39:20 | 581 | | 65.3625 | |
| 14:39:50 | 573.6 | | 64.53 | |
| 14:40:20 | 534.6 | | 60.1425 | |
| 14:40:50 | 569.9 | | 64.11375 | |
| 14:41:20 | 570.1 | | 64.13625 | |
| 14:41:50 | 567.9 | | 63.88875 | |
| 14:42:20 | 564.2 | | 63.4725 | |
| 14:42:50 | 564.9 | | 63.55125 | |
| 14:43:20 | 566.1 | | 63.68625 | |
| 14:43:50 | 562.2 | | 63.2475 | |
| 14:44:20 | 562.5 | | 63.28125 | |
| 14:44:50 | 557.9 | | 62.76375 | |
| 14:45:20 | 551.1 | | 61.99875 | |
| 14:45:50 | 550.8 | | 61.965 | |
| 14:46:20 | 550.9 | | 61.97625 | |
| 14:46:50 | 543.2 | | 61.11 | |
| 14:47:20 | 548.7 | | 61.72875 | |
| 14:47:50 | 548.1 | | 61.66125 | |
| 14:48:20 | 542.5 | | 61.03125 | |
| 14:48:50 | 535.2 | | 60.21 | |
| 14:49:20 | 538.2 | | 60.5475 | |
| 14:49:50 | 541.3 | | 60.89625 | |
| 14:50:20 | 524.6 | | 59.0175 | |
| 14:50:50 | 447.7 | | 50.36625 | |
| 14:51:20 | 489.6 | | 55.08 | |
| 14:51:50 | 493.6 | | 55.53 | |
| 14:52:20 | 360.6 | | 40.5675 | |

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|----------|--------------------|--|--------------------|--|
| 14:52:50 | 389.1 | | 43.77375 | |
| 14:53:20 | 505 | | 56.8125 | |
| 14:53:50 | 325.6 | | 36.63 | |
| 14:54:20 | 368.8 | | 41.49 | |
| 14:54:50 | 359.8 | | 40.4775 | |
| 14:55:20 | 286.1 | | 32.18625 | |
| 14:55:50 | 295.6 | | 33.255 | |
| 14:56:20 | 264.7 | | 29.77875 | |
| 14:56:50 | 278.2 | | 31.2975 | |
| 14:57:20 | 171.8 | | 19.3275 | |
| 14:57:50 | 128.4 | | 14.445 | |
| 14:58:20 | 67.7 | | 7.61625 | |
| 14:58:50 | 65.5 | | 7.36875 | |
| 14:59:20 | 71.1 | | 7.99875 | |
| 14:59:50 | 76.4 | | 8.595 | |
| 15:00:20 | 82 | | 9.225 | |
| 15:00:50 | 146.4 | | 16.47 | |
| Average | 692.1336207 | | 77.86503233 | |



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Appendix Table 9, Daily solar irradiance 28 June 2019

| Site Name: | Syafira hotel Rooftop | Date: | 28/06/2019 | Equipment: |
|------------|--|----------------------------------|---|------------|
| Location: | | | | |
| | Lat: | Long: | | |
| Elevation: | ± 1 meter | Time Zone: | WITA | |
| | | | | |
| Time | Solar irradiance (W/m ²) | Air Temperature (degree C) | PV Power output (W/m ²) | Remark |
| 09:00:29 | 152.1 | | 17.11125 | |
| 09:00:59 | 155 | | 17.4375 | |
| 09:01:29 | 355.8 | | 40.0275 | |
| 09:01:59 | 145.8 | | 16.4025 | |
| 09:02:29 | 164.8 | | 18.54 | |
| 09:02:59 | 363.6 | | 40.905 | |
| 09:03:29 | 518.9 | | 58.37625 | |
| 09:03:59 | 353.4 | | 39.7575 | |
| 09:04:29 | 426.6 | | 47.9925 | |
| 09:04:59 | 622.7 | | 70.05375 | |
| 09:05:29 | 626 | | 70.425 | |
| 09:05:59 | 629.9 | | 70.86375 | |
| 09:06:29 | 632.8 | | 71.19 | |
| 09:06:59 | 635.8 | | 71.5275 | |
| 09:07:29 | 642.8 | | 72.315 | |
| 09:07:59 | 639.8 | | 71.9775 | |
| 09:08:29 | 654.2 | | 73.5975 | |
| 09:08:59 | 654.3 | | 73.60875 | |
| 09:09:29 | 659.4 | | 74.1825 | |
| 09:09:59 | 652.6 | | 73.4175 | |
| 09:10:29 | 636.6 | | 71.6175 | |
| 09:10:59 | 650.4 | | 73.17 | |
| 09:11:29 | 633.4 | | 71.2575 | |
| 09:11:59 | 619.6 | | 69.705 | |
| 09:12:29 | 488.4 | | 54.945 | |
| 09:12:59 | 451.1 | | 50.74875 | |
| 09:13:29 | 180.2 | | 20.2725 | |
| 09:13:59 | 408.1 | | 45.91125 | |
| 09:14:29 | 442.9 | | 49.82625 | |
| 09:14:59 | 420.3 | | 47.28375 | |
| 09:15:29 | 421.8 | | 47.4525 | |
| 09:15:59 | 359.3 | | 40.42125 | |
| 09:16:29 | 419 | | 47.1375 | |

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| 09:16:59 | 450.4 | | 50.67 | |
| 09:17:29 | 506.3 | | 56.95875 | |
| 09:17:59 | 524.5 | | 59.00625 | |
| 09:18:29 | 528 | | 59.4 | |
| 09:18:59 | 463 | | 52.0875 | |
| 09:19:29 | 176.1 | | 19.81125 | |
| 09:19:59 | 375 | | 42.1875 | |
| 09:20:29 | 182.2 | | 20.4975 | |
| 09:20:59 | 175.1 | | 19.69875 | |
| 09:21:29 | 432.5 | | 48.65625 | |
| 09:21:59 | 494.2 | | 55.5975 | |
| 09:22:29 | 543.5 | | 61.14375 | |
| 09:22:59 | 625.2 | | 70.335 | |
| 09:23:29 | 421.1 | | 47.37375 | |
| 09:23:59 | 672.9 | | 75.70125 | |
| 09:24:29 | 652.1 | | 73.36125 | |
| 09:24:59 | 660.5 | | 74.30625 | |
| 09:25:29 | 626.3 | | 70.45875 | |
| 09:25:59 | 649.1 | | 73.02375 | |
| 09:26:29 | 688.2 | | 77.4225 | |
| 09:26:59 | 627.6 | | 70.605 | |
| 09:27:29 | 252.4 | | 28.395 | |
| 09:27:59 | 384.6 | | 43.2675 | |
| 09:28:29 | 412.8 | | 46.44 | |
| 09:28:59 | 216.9 | | 24.40125 | |
| 09:29:29 | 194.9 | | 21.92625 | |
| 09:29:59 | 186.7 | | 21.00375 | |
| 09:30:29 | 184.1 | | 20.71125 | |
| 09:30:59 | 181.6 | | 20.43 | |
| 09:31:29 | 184 | | 20.7 | |
| 09:31:59 | 205.2 | | 23.085 | |
| 09:32:29 | 759 | | 85.3875 | |
| 09:32:59 | 763.3 | | 85.87125 | |
| 09:33:29 | 507.5 | | 57.09375 | |
| 09:33:59 | 240 | | 27 | |
| 09:34:29 | 257.9 | | 29.01375 | |
| 09:34:59 | 247.3 | | 27.82125 | |
| 09:35:29 | 220.4 | | 24.795 | |
| 09:35:59 | 213.9 | | 24.06375 | |
| 09:36:29 | 269.3 | | 30.29625 | |
| 09:36:59 | 225.8 | | 25.4025 | |
| 09:37:29 | 580.2 | | 65.2725 | |



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| 09:37:59 | 365.5 | | 41.11875 | |
| 09:38:29 | 685.2 | | 77.085 | |
| 09:38:59 | 690.6 | | 77.6925 | |
| 09:39:29 | 673.8 | | 75.8025 | |
| 09:39:59 | 734.5 | | 82.63125 | |
| 09:40:29 | 787.8 | | 88.6275 | |
| 09:40:59 | 397.3 | | 44.69625 | |
| 09:41:29 | 839.1 | | 94.39875 | |
| 09:41:59 | 340.9 | | 38.35125 | |
| 09:42:29 | 824.3 | | 92.73375 | |
| 09:42:59 | 857.2 | | 96.435 | |
| 09:43:29 | 432.9 | | 48.70125 | |
| 09:43:59 | 853.2 | | 95.985 | |
| 09:44:29 | 860.2 | | 96.7725 | |
| 09:44:59 | 865.9 | | 97.41375 | |
| 09:45:29 | 799.2 | | 89.91 | |
| 09:45:59 | 752.5 | | 84.65625 | |
| 09:46:29 | 832.8 | | 93.69 | |
| 09:46:59 | 811.8 | | 91.3275 | |
| 09:47:29 | 721.2 | | 81.135 | |
| 09:47:59 | 732.9 | | 82.45125 | |
| 09:48:29 | 543.8 | | 61.1775 | |
| 09:48:59 | 744.1 | | 83.71125 | |
| 09:49:29 | 740.2 | | 83.2725 | |
| 09:49:59 | 761.9 | | 85.71375 | |
| 09:50:29 | 757.7 | | 85.24125 | |
| 09:50:59 | 751.7 | | 84.56625 | |
| 09:51:29 | 752.5 | | 84.65625 | |
| 09:51:59 | 748.1 | | 84.16125 | |
| 09:52:29 | 738.7 | | 83.10375 | |
| 09:52:59 | 740 | | 83.25 | |
| 09:53:29 | 742.9 | | 83.57625 | |
| 09:53:59 | 752.5 | | 84.65625 | |
| 09:54:29 | 755.8 | | 85.0275 | |
| 09:54:59 | 616 | | 69.3 | |
| 09:55:29 | 738.3 | | 83.05875 | |
| 09:55:59 | 775.5 | | 87.24375 | |
| 09:56:29 | 717.4 | | 80.7075 | |
| 09:56:59 | 718.2 | | 80.7975 | |
| 09:57:29 | 841.7 | | 94.69125 | |
| 09:57:59 | 847.4 | | 95.3325 | |
| 09:58:29 | 877 | | 98.6625 | |

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| 09:58:59 | 685.5 | | 77.11875 | |
| 09:59:29 | 278.7 | | 31.35375 | |
| 09:59:59 | 317.5 | | 35.71875 | |
| 10:00:29 | 193.3 | | 21.74625 | |
| 10:00:59 | 155.3 | | 17.47125 | |
| 10:01:29 | 144.9 | | 16.30125 | |
| 10:01:59 | 199.7 | | 22.46625 | |
| 10:02:29 | 816.2 | | 91.8225 | |
| 10:02:59 | 169.6 | | 19.08 | |
| 10:03:29 | 151.8 | | 17.0775 | |
| 10:03:59 | 160.5 | | 18.05625 | |
| 10:04:29 | 170.7 | | 19.20375 | |
| 10:04:59 | 161.6 | | 18.18 | |
| 10:05:29 | 158.6 | | 17.8425 | |
| 10:05:59 | 157 | | 17.6625 | |
| 10:06:29 | 154.4 | | 17.37 | |
| 10:06:59 | 152 | | 17.1 | |
| 10:07:29 | 148.7 | | 16.72875 | |
| 10:07:59 | 146.1 | | 16.43625 | |
| 10:08:29 | 143.6 | | 16.155 | |
| 10:08:59 | 142.5 | | 16.03125 | |
| 10:09:29 | 147.4 | | 16.5825 | |
| 10:09:59 | 157.7 | | 17.74125 | |
| 10:10:29 | 166.4 | | 18.72 | |
| 10:10:59 | 172.9 | | 19.45125 | |
| 10:11:29 | 193.5 | | 21.76875 | |
| 10:11:59 | 226.3 | | 25.45875 | |
| 10:12:29 | 737.3 | | 82.94625 | |
| 10:12:59 | 905.7 | | 101.89125 | |
| 10:13:29 | 888.7 | | 99.97875 | |
| 10:13:59 | 892.4 | | 100.395 | |
| 10:14:29 | 884.8 | | 99.54 | |
| 10:14:59 | 919.3 | | 103.42125 | |
| 10:15:29 | 801 | | 90.1125 | |
| 10:15:59 | 880.8 | | 99.09 | |
| 10:16:29 | 878.7 | | 98.85375 | |
| 10:16:59 | 809.9 | | 91.11375 | |
| 10:17:29 | 837.2 | | 94.185 | |
| 10:17:59 | 849.8 | | 95.6025 | |
| 10:18:29 | 498.8 | | 56.115 | |
| 10:18:59 | 158.8 | | 17.865 | |
| 10:19:29 | 166.2 | | 18.6975 | |



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| 10:19:59 | 207.6 | | 23.355 | |
| 10:20:29 | 282.2 | | 31.7475 | |
| 10:20:59 | 579.9 | | 65.23875 | |
| 10:21:29 | 953.8 | | 107.3025 | |
| 10:21:59 | 628.8 | | 70.74 | |
| 10:22:29 | 802.2 | | 90.2475 | |
| 10:22:59 | 239.1 | | 26.89875 | |
| 10:23:29 | 236.6 | | 26.6175 | |
| 10:23:59 | 260.8 | | 29.34 | |
| 10:24:29 | 233.4 | | 26.2575 | |
| 10:24:59 | 602.9 | | 67.82625 | |
| 10:25:29 | 282.6 | | 31.7925 | |
| 10:25:59 | 375.1 | | 42.19875 | |
| 10:26:29 | 268.2 | | 30.1725 | |
| 10:26:59 | 233.4 | | 26.2575 | |
| 10:27:29 | 945.3 | | 106.34625 | |
| 10:27:59 | 537.6 | | 60.48 | |
| 10:28:29 | 307.5 | | 34.59375 | |
| 10:28:59 | 901.1 | | 101.37375 | |
| 10:29:29 | 958.4 | | 107.82 | |
| 10:29:59 | 956.2 | | 107.5725 | |
| 10:30:29 | 954.9 | | 107.42625 | |
| 10:30:59 | 943 | | 106.0875 | |
| 10:31:29 | 937.7 | | 105.49125 | |
| 10:31:59 | 225.5 | | 25.36875 | |
| 10:32:29 | 187.1 | | 21.04875 | |
| 10:32:59 | 170.8 | | 19.215 | |
| 10:33:29 | 183.7 | | 20.66625 | |
| 10:33:59 | 168.9 | | 19.00125 | |
| 10:34:29 | 167.2 | | 18.81 | |
| 10:34:59 | 162.3 | | 18.25875 | |
| 10:35:29 | 164 | | 18.45 | |
| 10:35:59 | 170.4 | | 19.17 | |
| 10:36:29 | 175.9 | | 19.78875 | |
| 10:36:59 | 183.2 | | 20.61 | |
| 10:37:29 | 202.5 | | 22.78125 | |
| 10:37:59 | 960.9 | | 108.10125 | |
| 10:38:29 | 967.9 | | 108.88875 | |
| 10:38:59 | 255.1 | | 28.69875 | |
| 10:39:29 | 226.1 | | 25.43625 | |
| 10:39:59 | 217.7 | | 24.49125 | |
| 10:40:29 | 212.3 | | 23.88375 | |

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| 10:40:59 | 279 | | 31.3875 | |
| 10:41:29 | 224.7 | | 25.27875 | |
| 10:41:59 | 183.7 | | 20.66625 | |
| 10:42:29 | 213.1 | | 23.97375 | |
| 10:42:59 | 905 | | 101.8125 | |
| 10:43:29 | 900.8 | | 101.34 | |
| 10:43:59 | 900 | | 101.25 | |
| 10:44:29 | 903.3 | | 101.62125 | |
| 10:44:59 | 852.1 | | 95.86125 | |
| 10:45:29 | 148.3 | | 16.68375 | |
| 10:45:59 | 152.1 | | 17.11125 | |
| 10:46:29 | 581.5 | | 65.41875 | |
| 10:46:59 | 400 | | 45 | |
| 10:47:29 | 892.2 | | 100.3725 | |
| 10:47:59 | 876.1 | | 98.56125 | |
| 10:48:29 | 876.8 | | 98.64 | |
| 10:48:59 | 866.2 | | 97.4475 | |
| 10:49:29 | 864.8 | | 97.29 | |
| 10:49:59 | 869.4 | | 97.8075 | |
| 10:50:29 | 888.9 | | 100.00125 | |
| 10:50:59 | 915.5 | | 102.99375 | |
| 10:51:29 | 478.5 | | 53.83125 | |
| 10:51:59 | 220.6 | | 24.8175 | |
| 10:52:29 | 223.2 | | 25.11 | |
| 10:52:59 | 177.2 | | 19.935 | |
| 10:53:29 | 183.2 | | 20.61 | |
| 10:53:59 | 198.4 | | 22.32 | |
| 10:54:29 | 257.3 | | 28.94625 | |
| 10:54:59 | 942.4 | | 106.02 | |
| 10:55:29 | 936.1 | | 105.31125 | |
| 10:55:59 | 252.5 | | 28.40625 | |
| 10:56:29 | 293.7 | | 33.04125 | |
| 10:56:59 | 202.3 | | 22.75875 | |
| 10:57:29 | 200 | | 22.5 | |
| 10:57:59 | 219.6 | | 24.705 | |
| 10:58:29 | 275.7 | | 31.01625 | |
| 10:58:59 | 493.9 | | 55.56375 | |
| 10:59:29 | 839.5 | | 94.44375 | |
| 10:59:59 | 289.9 | | 32.61375 | |
| 11:00:29 | 498.5 | | 56.08125 | |
| 11:00:59 | 1010 | | 113.625 | |
| 11:01:29 | 401.1 | | 45.12375 | |



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| 11:01:59 | 245.6 | | 27.63 | |
| 11:02:29 | 231.5 | | 26.04375 | |
| 11:02:59 | 241.5 | | 27.16875 | |
| 11:03:29 | 278.2 | | 31.2975 | |
| 11:03:59 | 730.3 | | 82.15875 | |
| 11:04:29 | 240.8 | | 27.09 | |
| 11:04:59 | 662.9 | | 74.57625 | |
| 11:05:29 | 958.2 | | 107.7975 | |
| 11:05:59 | 963.9 | | 108.43875 | |
| 11:06:29 | 981.2 | | 110.385 | |
| 11:06:59 | 422.6 | | 47.5425 | |
| 11:07:29 | 231.8 | | 26.0775 | |
| 11:07:59 | 234.5 | | 26.38125 | |
| 11:08:29 | 198.5 | | 22.33125 | |
| 11:08:59 | 201.2 | | 22.635 | |
| 11:09:29 | 212.6 | | 23.9175 | |
| 11:09:59 | 230.2 | | 25.8975 | |
| 11:10:29 | 705.6 | | 79.38 | |
| 11:10:59 | 313.5 | | 35.26875 | |
| 11:11:29 | 254.4 | | 28.62 | |
| 11:11:59 | 246.2 | | 27.6975 | |
| 11:12:29 | 242.1 | | 27.23625 | |
| 11:12:59 | 241.1 | | 27.12375 | |
| 11:13:29 | 1004 | | 112.95 | |
| 11:13:59 | 1004 | | 112.95 | |
| 11:14:29 | 996.9 | | 112.15125 | |
| 11:14:59 | 954.9 | | 107.42625 | |
| 11:15:29 | 931.2 | | 104.76 | |
| 11:15:59 | 921 | | 103.6125 | |
| 11:16:29 | 915.6 | | 103.005 | |
| 11:16:59 | 902.7 | | 101.55375 | |
| 11:17:29 | 898.5 | | 101.08125 | |
| 11:17:59 | 901.7 | | 101.44125 | |
| 11:18:29 | 905.5 | | 101.86875 | |
| 11:18:59 | 910.1 | | 102.38625 | |
| 11:19:29 | 921.8 | | 103.7025 | |
| 11:19:59 | 917.4 | | 103.2075 | |
| 11:20:29 | 930.4 | | 104.67 | |
| 11:20:59 | 940.2 | | 105.7725 | |
| 11:21:29 | 956.3 | | 107.58375 | |
| 11:21:59 | 378.8 | | 42.615 | |
| 11:22:29 | 810.5 | | 91.18125 | |

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| 11:22:59 | 988.3 | | 111.18375 | |
| 11:23:29 | 975.8 | | 109.7775 | |
| 11:23:59 | 982.2 | | 110.4975 | |
| 11:24:29 | 983.1 | | 110.59875 | |
| 11:24:59 | 976 | | 109.8 | |
| 11:25:29 | 972.7 | | 109.42875 | |
| 11:25:59 | 976.6 | | 109.8675 | |
| 11:26:29 | 207.6 | | 23.355 | |
| 11:26:59 | 191.1 | | 21.49875 | |
| 11:27:29 | 304.7 | | 34.27875 | |
| 11:27:59 | 990.9 | | 111.47625 | |
| 11:28:29 | 507.4 | | 57.0825 | |
| 11:28:59 | 960 | | 108 | |
| 11:29:29 | 934 | | 105.075 | |
| 11:29:59 | 967.6 | | 108.855 | |
| 11:30:29 | 711 | | 79.9875 | |
| 11:30:59 | 347.9 | | 39.13875 | |
| 11:31:29 | 192.7 | | 21.67875 | |
| 11:31:59 | 209.3 | | 23.54625 | |
| 11:32:29 | 981.7 | | 110.44125 | |
| 11:32:59 | 987.2 | | 111.06 | |
| 11:33:29 | 998.6 | | 112.3425 | |
| 11:33:59 | 255.1 | | 28.69875 | |
| 11:34:29 | 264.9 | | 29.80125 | |
| 11:34:59 | 906.1 | | 101.93625 | |
| 11:35:29 | 993.4 | | 111.7575 | |
| 11:35:59 | 998.3 | | 112.30875 | |
| 11:36:29 | 993.1 | | 111.72375 | |
| 11:36:59 | 1002 | | 112.725 | |
| 11:37:29 | 1011 | | 113.7375 | |
| 11:37:59 | 243.5 | | 27.39375 | |
| 11:38:29 | 206.6 | | 23.2425 | |
| 11:38:59 | 203 | | 22.8375 | |
| 11:39:29 | 210.6 | | 23.6925 | |
| 11:39:59 | 215 | | 24.1875 | |
| 11:40:29 | 226.9 | | 25.52625 | |
| 11:40:59 | 954.8 | | 107.415 | |
| 11:41:29 | 365 | | 41.0625 | |
| 11:41:59 | 291.7 | | 32.81625 | |
| 11:42:29 | 520.2 | | 58.5225 | |
| 11:42:59 | 958.2 | | 107.7975 | |
| 11:43:29 | 290.2 | | 32.6475 | |



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|----------|-------|--|-----------|--|
| 11:43:59 | 953.3 | | 107.24625 | |
| 11:44:29 | 791.2 | | 89.01 | |
| 11:44:59 | 894.6 | | 100.6425 | |
| 11:45:29 | 981.7 | | 110.44125 | |
| 11:45:59 | 985.3 | | 110.84625 | |
| 11:46:29 | 982 | | 110.475 | |
| 11:46:59 | 979.8 | | 110.2275 | |
| 11:47:29 | 985.5 | | 110.86875 | |
| 11:47:59 | 986.6 | | 110.9925 | |
| 11:48:29 | 988.8 | | 111.24 | |
| 11:48:59 | 995.9 | | 112.03875 | |
| 11:49:29 | 996.7 | | 112.12875 | |
| 11:49:59 | 974.2 | | 109.5975 | |
| 11:50:29 | 989.9 | | 111.36375 | |
| 11:50:59 | 992 | | 111.6 | |
| 11:51:29 | 978 | | 110.025 | |
| 11:51:59 | 983.7 | | 110.66625 | |
| 11:52:29 | 979.9 | | 110.23875 | |
| 11:52:59 | 990.1 | | 111.38625 | |
| 11:53:29 | 246.7 | | 27.75375 | |
| 11:53:59 | 779.1 | | 87.64875 | |
| 11:54:29 | 962.2 | | 108.2475 | |
| 11:54:59 | 936.5 | | 105.35625 | |
| 11:55:29 | 974.7 | | 109.65375 | |
| 11:55:59 | 953.5 | | 107.26875 | |
| 11:56:29 | 949.2 | | 106.785 | |
| 11:56:59 | 949.4 | | 106.8075 | |
| 11:57:29 | 952.5 | | 107.15625 | |
| 11:57:59 | 960.9 | | 108.10125 | |
| 11:58:29 | 963.3 | | 108.37125 | |
| 11:58:59 | 965.7 | | 108.64125 | |
| 11:59:29 | 968.2 | | 108.9225 | |
| 11:59:59 | 970.6 | | 109.1925 | |
| 12:00:29 | 982.6 | | 110.5425 | |
| 12:00:59 | 233.1 | | 26.22375 | |
| 12:01:29 | 183.8 | | 20.6775 | |
| 12:01:59 | 195.7 | | 22.01625 | |
| 12:02:29 | 252.7 | | 28.42875 | |
| 12:02:59 | 419.9 | | 47.23875 | |
| 12:03:29 | 958.9 | | 107.87625 | |
| 12:03:59 | 972.3 | | 109.38375 | |
| 12:04:29 | 922.1 | | 103.73625 | |

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| 12:04:59 | 970.3 | | 109.15875 | |
| 12:05:29 | 889 | | 100.0125 | |
| 12:05:59 | 922.1 | | 103.73625 | |
| 12:06:29 | 312.3 | | 35.13375 | |
| 12:06:59 | 1034 | | 116.325 | |
| 12:07:29 | 930.7 | | 104.70375 | |
| 12:07:59 | 981.8 | | 110.4525 | |
| 12:08:29 | 382.7 | | 43.05375 | |
| 12:08:59 | 156.3 | | 17.58375 | |
| 12:09:29 | 144.5 | | 16.25625 | |
| 12:09:59 | 141.1 | | 15.87375 | |
| 12:10:29 | 139.9 | | 15.73875 | |
| 12:10:59 | 144.2 | | 16.2225 | |
| 12:11:29 | 164.3 | | 18.48375 | |
| 12:11:59 | 239.4 | | 26.9325 | |
| 12:12:29 | 778.2 | | 87.5475 | |
| 12:12:59 | 973 | | 109.4625 | |
| 12:13:29 | 924.4 | | 103.995 | |
| 12:13:59 | 940.2 | | 105.7725 | |
| 12:14:29 | 917.1 | | 103.17375 | |
| 12:14:59 | 920.6 | | 103.5675 | |
| 12:15:29 | 916.6 | | 103.1175 | |
| 12:15:59 | 912.3 | | 102.63375 | |
| 12:16:29 | 903 | | 101.5875 | |
| 12:16:59 | 893.5 | | 100.51875 | |
| 12:17:29 | 883.7 | | 99.41625 | |
| 12:17:59 | 881.8 | | 99.2025 | |
| 12:18:29 | 879.9 | | 98.98875 | |
| 12:18:59 | 881.3 | | 99.14625 | |
| 12:19:29 | 881.1 | | 99.12375 | |
| 12:19:59 | 874.1 | | 98.33625 | |
| 12:20:29 | 933.4 | | 105.0075 | |
| 12:20:59 | 932.1 | | 104.86125 | |
| 12:21:29 | 937 | | 105.4125 | |
| 12:21:59 | 949.2 | | 106.785 | |
| 12:22:29 | 948.9 | | 106.75125 | |
| 12:22:59 | 953.8 | | 107.3025 | |
| 12:23:29 | 963.5 | | 108.39375 | |
| 12:23:59 | 964.9 | | 108.55125 | |
| 12:24:29 | 961.3 | | 108.14625 | |
| 12:24:59 | 979.3 | | 110.17125 | |
| 12:25:29 | 980.4 | | 110.295 | |



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| 12:25:59 | 980.4 | | 110.295 | |
| 12:26:29 | 1000 | | 112.5 | |
| 12:26:59 | 276.8 | | 31.14 | |
| 12:27:29 | 203.9 | | 22.93875 | |
| 12:27:59 | 199 | | 22.3875 | |
| 12:28:29 | 199.8 | | 22.4775 | |
| 12:28:59 | 256.8 | | 28.89 | |
| 12:29:29 | 225 | | 25.3125 | |
| 12:29:59 | 218 | | 24.525 | |
| 12:30:29 | 223.2 | | 25.11 | |
| 12:30:59 | 215.8 | | 24.2775 | |
| 12:31:29 | 368.9 | | 41.50125 | |
| 12:31:59 | 907.1 | | 102.04875 | |
| 12:32:29 | 952.2 | | 107.1225 | |
| 12:32:59 | 938.1 | | 105.53625 | |
| 12:33:29 | 933.4 | | 105.0075 | |
| 12:33:59 | 935 | | 105.1875 | |
| 12:34:29 | 932.9 | | 104.95125 | |
| 12:34:59 | 936.7 | | 105.37875 | |
| 12:35:29 | 932.3 | | 104.88375 | |
| 12:35:59 | 932.6 | | 104.9175 | |
| 12:36:29 | 914.9 | | 102.92625 | |
| 12:36:59 | 898.5 | | 101.08125 | |
| 12:37:29 | 896.6 | | 100.8675 | |
| 12:37:59 | 893.2 | | 100.485 | |
| 12:38:29 | 879.1 | | 98.89875 | |
| 12:38:59 | 872.7 | | 98.17875 | |
| 12:39:29 | 870.2 | | 97.8975 | |
| 12:39:59 | 872.1 | | 98.11125 | |
| 12:40:29 | 871.3 | | 98.02125 | |
| 12:40:59 | 879.2 | | 98.91 | |
| 12:41:29 | 884 | | 99.45 | |
| 12:41:59 | 895.1 | | 100.69875 | |
| 12:42:29 | 906 | | 101.925 | |
| 12:42:59 | 912.5 | | 102.65625 | |
| 12:43:29 | 917.2 | | 103.185 | |
| 12:43:59 | 922.6 | | 103.7925 | |
| 12:44:29 | 928.5 | | 104.45625 | |
| 12:44:59 | 933.5 | | 105.01875 | |
| 12:45:29 | 933.9 | | 105.06375 | |
| 12:45:59 | 931.8 | | 104.8275 | |
| 12:46:29 | 925.5 | | 104.11875 | |

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| 12:46:59 | 931 | | 104.7375 | |
| 12:47:29 | 489.2 | | 55.035 | |
| 12:47:59 | 271.9 | | 30.58875 | |
| 12:48:29 | 894.9 | | 100.67625 | |
| 12:48:59 | 889 | | 100.0125 | |
| 12:49:29 | 890 | | 100.125 | |
| 12:49:59 | 888.7 | | 99.97875 | |
| 12:50:29 | 888.7 | | 99.97875 | |
| 12:50:59 | 889.7 | | 100.09125 | |
| 12:51:29 | 889.8 | | 100.1025 | |
| 12:51:59 | 892.4 | | 100.395 | |
| 12:52:29 | 897.9 | | 101.01375 | |
| 12:52:59 | 899.6 | | 101.205 | |
| 12:53:29 | 900.3 | | 101.28375 | |
| 12:53:59 | 898.1 | | 101.03625 | |
| 12:54:29 | 897.6 | | 100.98 | |
| 12:54:59 | 895.7 | | 100.76625 | |
| 12:55:29 | 896.6 | | 100.8675 | |
| 12:55:59 | 785.3 | | 88.34625 | |
| 12:56:29 | 899.6 | | 101.205 | |
| 12:56:59 | 900.1 | | 101.26125 | |
| 12:57:29 | 896.3 | | 100.83375 | |
| 12:57:59 | 897.4 | | 100.9575 | |
| 12:58:29 | 899.3 | | 101.17125 | |
| 12:58:59 | 898.9 | | 101.12625 | |
| 12:59:29 | 900.8 | | 101.34 | |
| 12:59:59 | 903.1 | | 101.59875 | |
| 13:00:29 | 903.3 | | 101.62125 | |
| 13:00:59 | 906.9 | | 102.02625 | |
| 13:01:29 | 912.6 | | 102.6675 | |
| 13:01:59 | 923.7 | | 103.91625 | |
| 13:02:29 | 930.2 | | 104.6475 | |
| 13:02:59 | 941.1 | | 105.87375 | |
| 13:03:29 | 777.4 | | 87.4575 | |
| 13:03:59 | 209.6 | | 23.58 | |
| 13:04:29 | 208.7 | | 23.47875 | |
| 13:04:59 | 207.7 | | 23.36625 | |
| 13:05:29 | 620.4 | | 69.795 | |
| 13:05:59 | 669.4 | | 75.3075 | |
| 13:06:29 | 891.9 | | 100.33875 | |
| 13:06:59 | 887.8 | | 99.8775 | |
| 13:07:29 | 533.7 | | 60.04125 | |



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| 13:07:59 | 848.7 | | 95.47875 | |
| 13:08:29 | 839.1 | | 94.39875 | |
| 13:08:59 | 829.8 | | 93.3525 | |
| 13:09:29 | 825.5 | | 92.86875 | |
| 13:09:59 | 827.9 | | 93.13875 | |
| 13:10:29 | 827.9 | | 93.13875 | |
| 13:10:59 | 829.2 | | 93.285 | |
| 13:11:29 | 829.3 | | 93.29625 | |
| 13:11:59 | 829 | | 93.2625 | |
| 13:12:29 | 827.4 | | 93.0825 | |
| 13:12:59 | 817.3 | | 91.94625 | |
| 13:13:29 | 796.7 | | 89.62875 | |
| 13:13:59 | 819.8 | | 92.2275 | |
| 13:14:29 | 827.6 | | 93.105 | |
| 13:14:59 | 829.2 | | 93.285 | |
| 13:15:29 | 829 | | 93.2625 | |
| 13:15:59 | 819 | | 92.1375 | |
| 13:16:29 | 814.9 | | 91.67625 | |
| 13:16:59 | 815.4 | | 91.7325 | |
| 13:17:29 | 821.9 | | 92.46375 | |
| 13:17:59 | 813.5 | | 91.51875 | |
| 13:18:29 | 814.9 | | 91.67625 | |
| 13:18:59 | 817.3 | | 91.94625 | |
| 13:19:29 | 823.3 | | 92.62125 | |
| 13:19:59 | 826.2 | | 92.9475 | |
| 13:20:29 | 819.7 | | 92.21625 | |
| 13:20:59 | 810.6 | | 91.1925 | |
| 13:21:29 | 810 | | 91.125 | |
| 13:21:59 | 811.6 | | 91.305 | |
| 13:22:29 | 812.5 | | 91.40625 | |
| 13:22:59 | 813.3 | | 91.49625 | |
| 13:23:29 | 813.2 | | 91.485 | |
| 13:23:59 | 815.1 | | 91.69875 | |
| 13:24:29 | 810.5 | | 91.18125 | |
| 13:24:59 | 804.8 | | 90.54 | |
| 13:25:29 | 800.5 | | 90.05625 | |
| 13:25:59 | 802.1 | | 90.23625 | |
| 13:26:29 | 804.1 | | 90.46125 | |
| 13:26:59 | 809.1 | | 91.02375 | |
| 13:27:29 | 810.2 | | 91.1475 | |
| 13:27:59 | 809.5 | | 91.06875 | |
| 13:28:29 | 808.6 | | 90.9675 | |

| | | | | |
|----------|-------|--|----------|--|
| 13:28:59 | 811.3 | | 91.27125 | |
| 13:29:29 | 808.4 | | 90.945 | |
| 13:29:59 | 809.1 | | 91.02375 | |
| 13:30:29 | 811 | | 91.2375 | |
| 13:30:59 | 808.3 | | 90.93375 | |
| 13:31:29 | 808.7 | | 90.97875 | |
| 13:31:59 | 806.8 | | 90.765 | |
| 13:32:29 | 809.5 | | 91.06875 | |
| 13:32:59 | 809.1 | | 91.02375 | |
| 13:33:29 | 811.8 | | 91.3275 | |
| 13:33:59 | 813.5 | | 91.51875 | |
| 13:34:29 | 814 | | 91.575 | |
| 13:34:59 | 810.2 | | 91.1475 | |
| 13:35:29 | 806.5 | | 90.73125 | |
| 13:35:59 | 805.3 | | 90.59625 | |
| 13:36:29 | 807.6 | | 90.855 | |
| 13:36:59 | 804.9 | | 90.55125 | |
| 13:37:29 | 808.1 | | 90.91125 | |
| 13:37:59 | 811.1 | | 91.24875 | |
| 13:38:29 | 808.4 | | 90.945 | |
| 13:38:59 | 804.8 | | 90.54 | |
| 13:39:29 | 803.5 | | 90.39375 | |
| 13:39:59 | 805.3 | | 90.59625 | |
| 13:40:29 | 804.9 | | 90.55125 | |
| 13:40:59 | 803.8 | | 90.4275 | |
| 13:41:29 | 809.7 | | 91.09125 | |
| 13:41:59 | 808.7 | | 90.97875 | |
| 13:42:29 | 808.9 | | 91.00125 | |
| 13:42:59 | 741.9 | | 83.46375 | |
| 13:43:29 | 821.3 | | 92.39625 | |
| 13:43:59 | 823.5 | | 92.64375 | |
| 13:44:29 | 828.1 | | 93.16125 | |
| 13:44:59 | 830.4 | | 93.42 | |
| 13:45:29 | 831.4 | | 93.5325 | |
| 13:45:59 | 830.6 | | 93.4425 | |
| 13:46:29 | 825.2 | | 92.835 | |
| 13:46:59 | 821.4 | | 92.4075 | |
| 13:47:29 | 813 | | 91.4625 | |
| 13:47:59 | 807.6 | | 90.855 | |
| 13:48:29 | 797.3 | | 89.69625 | |
| 13:48:59 | 793.7 | | 89.29125 | |
| 13:49:29 | 783.7 | | 88.16625 | |



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| | | | | |
|----------|-------|--|----------|--|
| 13:49:59 | 785.1 | | 88.32375 | |
| 13:50:29 | 779.3 | | 87.67125 | |
| 13:50:59 | 776.4 | | 87.345 | |
| 13:51:29 | 769.5 | | 86.56875 | |
| 13:51:59 | 763.8 | | 85.9275 | |
| 13:52:29 | 756.3 | | 85.08375 | |
| 13:52:59 | 751.1 | | 84.49875 | |
| 13:53:29 | 728 | | 81.9 | |
| 13:53:59 | 747.9 | | 84.13875 | |
| 13:54:29 | 749.7 | | 84.34125 | |
| 13:54:59 | 755.4 | | 84.9825 | |
| 13:55:29 | 753.8 | | 84.8025 | |
| 13:55:59 | 754.7 | | 84.90375 | |
| 13:56:29 | 756 | | 85.05 | |
| 13:56:59 | 759.2 | | 85.41 | |
| 13:57:29 | 764.4 | | 85.995 | |
| 13:57:59 | 768.2 | | 86.4225 | |
| 13:58:29 | 766.3 | | 86.20875 | |
| 13:58:59 | 767.4 | | 86.3325 | |
| 13:59:29 | 761.1 | | 85.62375 | |
| 13:59:59 | 697.4 | | 78.4575 | |
| 14:00:29 | 206.3 | | 23.20875 | |
| 14:00:59 | 750.6 | | 84.4425 | |
| 14:01:29 | 746.3 | | 83.95875 | |
| 14:01:59 | 741.9 | | 83.46375 | |
| 14:02:29 | 735.3 | | 82.72125 | |
| 14:02:59 | 731 | | 82.2375 | |
| 14:03:29 | 738.3 | | 83.05875 | |
| 14:03:59 | 680.1 | | 76.51125 | |
| 14:04:29 | 747.1 | | 84.04875 | |
| 14:04:59 | 748.1 | | 84.16125 | |
| 14:05:29 | 741.6 | | 83.43 | |
| 14:05:59 | 734.9 | | 82.67625 | |
| 14:06:29 | 729.2 | | 82.035 | |
| 14:06:59 | 724.6 | | 81.5175 | |
| 14:07:29 | 724.8 | | 81.54 | |
| 14:07:59 | 732.4 | | 82.395 | |
| 14:08:29 | 651.6 | | 73.305 | |
| 14:08:59 | 741.3 | | 83.39625 | |
| 14:09:29 | 762.7 | | 85.80375 | |
| 14:09:59 | 709.4 | | 79.8075 | |
| 14:10:29 | 771.7 | | 86.81625 | |

| | | | | |
|----------|-------|--|----------|--|
| 14:10:59 | 682 | | 76.725 | |
| 14:11:29 | 197.9 | | 22.26375 | |
| 14:11:59 | 124 | | 13.95 | |
| 14:12:29 | 366.7 | | 41.25375 | |
| 14:12:59 | 295.9 | | 33.28875 | |
| 14:13:29 | 712.6 | | 80.1675 | |
| 14:13:59 | 699.5 | | 78.69375 | |
| 14:14:29 | 691.4 | | 77.7825 | |
| 14:14:59 | 689.5 | | 77.56875 | |
| 14:15:29 | 674.9 | | 75.92625 | |
| 14:15:59 | 678.6 | | 76.3425 | |
| 14:16:29 | 681.1 | | 76.62375 | |
| 14:16:59 | 678.6 | | 76.3425 | |
| 14:17:29 | 677.3 | | 76.19625 | |
| 14:17:59 | 677.1 | | 76.17375 | |
| 14:18:29 | 674.4 | | 75.87 | |
| 14:18:59 | 672.4 | | 75.645 | |
| 14:19:29 | 673.7 | | 75.79125 | |
| 14:19:59 | 677.3 | | 76.19625 | |
| 14:20:29 | 673.7 | | 75.79125 | |
| 14:20:59 | 666.2 | | 74.9475 | |
| 14:21:29 | 667.8 | | 75.1275 | |
| 14:21:59 | 667.5 | | 75.09375 | |
| 14:22:29 | 667.5 | | 75.09375 | |
| 14:22:59 | 667 | | 75.0375 | |
| 14:23:29 | 665.1 | | 74.82375 | |
| 14:23:59 | 664.2 | | 74.7225 | |
| 14:24:29 | 660.8 | | 74.34 | |
| 14:24:59 | 659.7 | | 74.21625 | |
| 14:25:29 | 658 | | 74.025 | |
| 14:25:59 | 655.4 | | 73.7325 | |
| 14:26:29 | 661.9 | | 74.46375 | |
| 14:26:59 | 471.6 | | 53.055 | |
| 14:27:29 | 118.1 | | 13.28625 | |
| 14:27:59 | 683.2 | | 76.86 | |
| 14:28:29 | 676.5 | | 76.10625 | |
| 14:28:59 | 663.5 | | 74.64375 | |
| 14:29:29 | 659.1 | | 74.14875 | |
| 14:29:59 | 661.9 | | 74.46375 | |
| 14:30:29 | 656.5 | | 73.85625 | |
| 14:30:59 | 227.8 | | 25.6275 | |
| 14:31:29 | 665.9 | | 74.91375 | |



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| | | | | |
|----------|-------|--|----------|--|
| 14:31:59 | 646.6 | | 72.7425 | |
| 14:32:29 | 640.9 | | 72.10125 | |
| 14:32:59 | 637.7 | | 71.74125 | |
| 14:33:29 | 638.2 | | 71.7975 | |
| 14:33:59 | 635 | | 71.4375 | |
| 14:34:29 | 633.3 | | 71.24625 | |
| 14:34:59 | 637.2 | | 71.685 | |
| 14:35:29 | 635.2 | | 71.46 | |
| 14:35:59 | 573.9 | | 64.56375 | |
| 14:36:29 | 634.9 | | 71.42625 | |
| 14:36:59 | 625.8 | | 70.4025 | |
| 14:37:29 | 620.6 | | 69.8175 | |
| 14:37:59 | 614.1 | | 69.08625 | |
| 14:38:29 | 614.4 | | 69.12 | |
| 14:38:59 | 612.2 | | 68.8725 | |
| 14:39:29 | 615.2 | | 69.21 | |
| 14:39:59 | 616.6 | | 69.3675 | |
| 14:40:29 | 616 | | 69.3 | |
| 14:40:59 | 610.3 | | 68.65875 | |
| 14:41:29 | 602.7 | | 67.80375 | |
| 14:41:59 | 609.4 | | 68.5575 | |
| 14:42:29 | 606.8 | | 68.265 | |
| 14:42:59 | 604.6 | | 68.0175 | |
| 14:43:29 | 602.5 | | 67.78125 | |
| 14:43:59 | 600 | | 67.5 | |
| 14:44:29 | 596.5 | | 67.10625 | |
| 14:44:59 | 595.4 | | 66.9825 | |
| 14:45:29 | 587.5 | | 66.09375 | |
| 14:45:59 | 592.4 | | 66.645 | |
| 14:46:29 | 591.6 | | 66.555 | |
| 14:46:59 | 589.1 | | 66.27375 | |
| 14:47:29 | 586.4 | | 65.97 | |
| 14:47:59 | 585.1 | | 65.82375 | |
| 14:48:29 | 585.4 | | 65.8575 | |
| 14:48:59 | 583.5 | | 65.64375 | |
| 14:49:29 | 584 | | 65.7 | |
| 14:49:59 | 580.8 | | 65.34 | |
| 14:50:29 | 577.2 | | 64.935 | |
| 14:50:59 | 571.8 | | 64.3275 | |
| 14:51:29 | 574 | | 64.575 | |
| 14:51:59 | 572.5 | | 64.40625 | |
| 14:52:29 | 573.1 | | 64.47375 | |

| | | | | |
|----------|-------------|--|--------------------|--|
| 14:52:59 | 572.9 | | 64.45125 | |
| 14:53:29 | 571 | | 64.2375 | |
| 14:53:59 | 569.9 | | 64.11375 | |
| 14:54:29 | 566.8 | | 63.765 | |
| 14:54:59 | 563.4 | | 63.3825 | |
| 14:55:29 | 562.6 | | 63.2925 | |
| 14:55:59 | 559.6 | | 62.955 | |
| 14:56:29 | 557.3 | | 62.69625 | |
| 14:56:59 | 554.2 | | 62.3475 | |
| 14:57:29 | 553.9 | | 62.31375 | |
| 14:57:59 | 552.2 | | 62.1225 | |
| 14:58:29 | 551.5 | | 62.04375 | |
| 14:58:59 | 550 | | 61.875 | |
| 14:59:29 | 547.1 | | 61.54875 | |
| 14:59:59 | 545.1 | | 61.32375 | |
| Average | 687.3160345 | | 77.32305388 | |



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6.3 Wind Speed and Direction

Appendix Table 1, Wind speed and direction 22 June 2019

| | | | | | |
|------------|--------------------|-------------------|------------|-----------------------------------|--|
| Site Name: | Tambolongan Strait | Date: | 22/06/2019 | Equipment: Flow Watch CDCFL-03 | |
| Location: | | | | | |
| | Lat: -6.6456739 | Long: 120.4305870 | | | |
| Height: | ± 1 meter | Time Zone: | WITA | | |

| Time | Wind velocity (m/s) | Wind direction (to) | Power Density (kW/m2) | Remarks |
|-------|---------------------|---------------------|-----------------------|---------|
| 08:06 | 5.8 | Southwest | 1.195061 | |
| 08:16 | 7.1 | Southwest | 2.19220488 | |
| 08:21 | 7.6 | Southwest | 2.688728 | |
| 08:26 | 7.1 | Southwest | 2.19220488 | |
| 08:36 | 7.7 | Southwest | 2.79626463 | |
| 08:46 | 7.7 | Southwest | 2.79626463 | |
| 08:56 | 7.6 | Southwest | 2.688728 | |
| 09:06 | 7.4 | Southwest | 2.481997 | |
| 09:16 | 7.6 | Southwest | 2.688728 | |
| 09:26 | 7.3 | Southwest | 2.38272913 | |
| 09:36 | 7.3 | Southwest | 2.38272913 | |
| 09:46 | 7.1 | Southwest | 2.19220488 | |
| 09:56 | 6.2 | Southwest | 1.459759 | |
| 10:06 | 6.7 | Southwest | 1.84217338 | |
| 10:16 | 6.5 | Southwest | 1.68207813 | |
| 10:26 | 6.3 | Southwest | 1.53153788 | |
| 10:36 | 6.8 | Southwest | 1.925896 | |
| 10:46 | 7.7 | Southwest | 2.79626463 | |
| 10:56 | 6.8 | Southwest | 1.925896 | |
| 11:06 | 6.2 | Southwest | 1.459759 | |
| 11:16 | 6.5 | Southwest | 1.68207813 | |
| 11:26 | 7.2 | Southwest | 2.286144 | |
| 11:36 | 7.4 | West | 2.481997 | |
| 11:46 | 6.8 | West | 1.925896 | |
| 11:56 | 6.6 | West | 1.760913 | |
| 12:06 | 6.7 | West | 1.84217338 | |
| 12:16 | 6.1 | West | 1.39025863 | |
| 12:26 | 6.5 | West | 1.68207813 | |
| 12:36 | 5.3 | West | 0.91187163 | |
| 12:46 | 8 | Southwest | 3.136 | |
| 12:56 | 6.3 | Southwest | 1.53153788 | |

| | | | | |
|---------|-------------------|-----------|-------------------|------------------------|
| 13:06 | 7.5 | West | 2.58398438 | |
| 13:16 | 8.6 | West | 3.895843 | |
| 13:26 | 7.4 | West | 2.481997 | |
| 13:36 | 7.4 | West | 2.481997 | |
| 13:46 | 7.7 | West | 2.79626463 | |
| 13:56 | 6.9 | Southwest | 2.01211763 | |
| 14:06 | 7.9 | Southwest | 3.01986388 | |
| Average | 7.03421053 | | 2.18958483 | |
| Comment | | | | Assessor: Raihan, Andi |



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Appendix Table 2, Wind speed and direction 24 June 2019

| Site Name: | Padang | Date: | 24/06/2019 | Equipment: Flow Watch CDCFL-03 | |
|------------|---------------------|---------------------|-----------------------|-----------------------------------|--|
| Location: | | | | | |
| | Lat: -6.2107990 | Long: 120.4280900 | | | |
| Height: | <u>± 1</u> meter | Time Zone: | WITA | | |
| Time | Wind velocity (m/s) | Wind direction (to) | Power Density (kW/m2) | Remarks | |
| 10:50 | 11.8 | West | 10.063571 | | |
| 11:10 | 7.5 | West | 2.58398438 | | |
| 11:30 | 7.3 | West | 2.38272913 | | |
| 11:50 | 9.3 | West | 4.92668663 | | |
| 12:10 | 8.3 | West | 3.50219538 | | |
| 12:30 | 8.4 | West | 3.630312 | | |
| 12:50 | 8.2 | West | 3.377129 | | |
| 13:10 | 6.3 | West | 1.53153788 | | |
| 13:30 | 8.7 | West | 4.03333088 | | |
| 13:50 | 7.5 | West | 2.58398438 | | |
| 14:10 | 6.5 | West | 1.68207813 | | |
| 14:30 | 6.5 | West | 1.68207813 | | |
| 14:50 | 7.6 | West | 2.688728 | | |
| 15:10 | 6.4 | West | 1.605632 | | |
| Average | 7.87857143 | | 3.30528406 | | |
| Comment | | | | Assessor: Raihan, Andi | |

Appendix Table 3, Wind speed and direction 27 June 2019

| | | | | |
|------------|-------------------|-------------------|------------|-----------------------------------|
| Site Name: | Tanadoang Summit | Date: | 27/06/2019 | Equipment: Flow Watch CDCFL-03 |
| Location: | | | | |
| | Lat: -6.2107990 | Long: 120.4280900 | | |
| Height: | <u>± 3 meters</u> | Time Zone: | WITA | |

| Time | Wind velocity (m/s) | Wind direction (to) | Power Density (kW/m2) | Remarks |
|---------|---------------------|---------------------|-----------------------|---------|
| 08:35 | 4.5 | West | 0.55814063 | |
| 08:45 | 4.5 | West | 0.55814063 | |
| 08:55 | 5 | West | 0.765625 | |
| 09:05 | 3.1 | West | 0.18246988 | |
| 09:15 | 5.1 | West | 0.81248738 | |
| 09:25 | 3.7 | West | 0.31024963 | |
| 09:35 | 4.9 | West | 0.72060013 | |
| 09:45 | 3.2 | West | 0.200704 | |
| 09:55 | 4.9 | West | 0.72060013 | |
| 10:05 | 5.6 | West | 1.075648 | |
| 10:15 | 4.9 | West | 0.72060013 | |
| 10:25 | 3.6 | West | 0.285768 | |
| 10:35 | 3 | West | 0.165375 | |
| 10:45 | 3.5 | West | 0.26260938 | |
| 10:55 | 3.1 | West | 0.18246988 | |
| 11:05 | 2.5 | West | 0.09570313 | |
| 11:15 | 2.5 | West | 0.09570313 | |
| 11:25 | 1.1 | West | 0.00815238 | |
| 11:35 | 2.2 | West | 0.065219 | |
| 11:45 | 3.5 | West | 0.26260938 | |
| 11:55 | 1.5 | West | 0.02067188 | |
| 12:05 | 2 | West | 0.049 | |
| 12:15 | 3.4 | West | 0.240737 | |
| 12:25 | 1.5 | West | 0.02067188 | |
| 12:35 | 1.4 | West | 0.016807 | |
| 12:45 | 2 | West | 0.049 | |
| 12:55 | 1.9 | West | 0.04201138 | |
| 13:05 | 1.3 | West | 0.01345663 | |
| 13:15 | 1.5 | West | 0.02067188 | |
| 13:25 | 1.3 | West | 0.01345663 | |
| 13:35 | 2.1 | West | 0.05672363 | |
| Average | 3.04193548 | | 0.27716396 | |



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Appendix Table 4, Wind speed and direction 28 June 2019

| Site Name: | Tanadoang Summit | Date: | 28/06/2019 | Equipment: Flow Watch CDCFL-03 | |
|------------|---------------------|---------------------|------------------------------------|--------------------------------------|--|
| Location: | | | | | |
| | Lat: -6.2107990 | | | | |
| Height: | ± 3 meters | Time Zone: | WITA | | |
| | | | | | |
| Time | Wind velocity (m/s) | Wind direction (to) | Power Density (kW/m ²) | Remarks | |
| 08:35 | 2.6 | West | 0.107653 | | |
| 08:45 | 2.9 | West | 0.149382625 | | |
| 08:55 | 2.5 | West | 0.095703125 | | |
| 09:05 | 2.8 | West | 0.134456 | | |
| 09:15 | 2.9 | West | 0.149382625 | | |
| 09:25 | 3 | West | 0.165375 | | |
| 09:35 | 2.6 | West | 0.107653 | | |
| 09:45 | 2 | West | 0.049 | | |
| 09:55 | 2.4 | West | 0.084672 | | |
| 10:05 | 2.3 | West | 0.074522875 | | |
| 10:15 | 2.6 | West | 0.107653 | | |
| 10:25 | 2.9 | West | 0.149382625 | | |
| 10:35 | 3 | West | 0.165375 | | |
| 10:45 | 2.4 | West | 0.084672 | | |
| 10:55 | 2.5 | West | 0.095703125 | | |
| 11:05 | 2.3 | West | 0.074522875 | | |
| 11:15 | 2.5 | West | 0.095703125 | | |
| 11:25 | 1.8 | West | 0.035721 | | |
| 11:35 | 2.3 | West | 0.074522875 | | |
| 11:45 | 2.6 | West | 0.107653 | | |
| Average | 2.545 | | 0.105435444 | | |
| Comment | | | | Assessor: Achsani, Raihan | |

Appendix Table 5, Wind speed and direction 29 June 2019

| Site Name: | Bontomatene | Date: | 29/06/2019 | Equipment: Flow Watch CDCFL-03 | |
|------------|---------------------|---------------------|-----------------------|-----------------------------------|--|
| Location: | | | | | |
| | Lat: -5.827769 | Long: 120.490120 | | | |
| Height: | <u>± 6 meters</u> | Time Zone: | WITA | | |
| Time | Wind velocity (m/s) | Wind direction (to) | Power Density (kW/m2) | | |
| 09:24 | 3 | Southwest | 0.165375 | | |
| 09:29 | 4 | Southwest | 0.392 | | |
| 09:34 | 3 | Southwest | 0.165375 | | |
| 09:39 | 3.5 | Southwest | 0.26260938 | | |
| 09:44 | 2 | Southwest | 0.049 | | |
| 09:49 | 3.5 | Southwest | 0.26260938 | | |
| 09:54 | 4 | Southwest | 0.392 | | |
| 09:59 | 3 | Southwest | 0.165375 | | |
| 10:04 | 4 | Southwest | 0.392 | | |
| 10:09 | 3 | Southwest | 0.165375 | | |
| 10:14 | 4 | Southwest | 0.392 | | |
| 10:19 | 3 | Southwest | 0.165375 | | |
| 10:24 | 3.5 | Southwest | 0.26260938 | | |
| Average | 3.34615385 | | 0.24859255 | | |
| Comment | | | | Assessor: Achsani, Raihan | |



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6.4 Tidal current

Appendix Table 1, Tidal current 22 June 2019

| | | | | |
|--------------|--------------------|-------------------|------------|--------------------------------------|
| Site Name: | Tambolongan Strait | Date: | 22/06/2019 | Equipment: Flow Watch CDCFL-03 |
| Location: | | | | |
| | Lat: -6.6456739 | Long: 120.4305870 | | |
| Water Depth: | ± 1 meter | Time Zone: | WITA | |

| Time | Current velocity (m/s) | Current direction (from) | Power Density (kW/m2) | |
|-------|------------------------|--------------------------|-----------------------|--|
| 08:05 | 0.6 | East | 1.08 | |
| 08:15 | 0.6 | East | 1.08 | |
| 08:20 | 0.6 | East | 1.08 | |
| 08:25 | 0.6 | East | 1.08 | |
| 08:35 | 0.7 | East | 1.715 | |
| 08:45 | 0.7 | East | 1.715 | |
| 08:55 | 0.6 | East | 1.08 | |
| 09:05 | 0.6 | East | 1.08 | |
| 09:15 | 0.6 | East | 1.08 | |
| 09:25 | 0.5 | East | 0.625 | |
| 09:35 | 0.5 | East | 0.625 | |
| 09:45 | 0.4 | East | 0.32 | |
| 09:55 | 0.3 | East | 0.135 | |
| 10:05 | 0.3 | East | 0.135 | |
| 10:15 | 0.3 | East | 0.135 | |
| 10:25 | 0.2 | East | 0.04 | |
| 10:35 | 0.1 | East | 0.005 | |
| 10:45 | 0.1 | East | 0.005 | |
| 10:55 | 0 | East | 0 | |
| 11:05 | 0 | East | 0 | |
| 11:15 | 0.1 | West | 0.005 | |
| 11:25 | 0.2 | West | 0.04 | |
| 11:35 | 0.3 | West | 0.135 | |
| 11:45 | 0.6 | West | 1.08 | |
| 11:55 | 0.6 | West | 1.08 | |
| 12:05 | 0.7 | West | 1.715 | |
| 12:15 | 0.6 | West | 1.08 | |
| 12:25 | 0.6 | West | 1.08 | |
| 12:35 | 0.6 | West | 1.08 | |
| 12:45 | 0.6 | West | 1.08 | |

| | | | | |
|---------|-------------|------|--------------|---------------------------|
| 12:55 | 0.6 | West | 1.08 | |
| 13:05 | 0.5 | West | 0.625 | |
| 13:15 | 0.4 | West | 0.32 | |
| 13:25 | 0.4 | West | 0.32 | |
| 13:35 | 0.3 | West | 0.135 | |
| 13:45 | 0.2 | West | 0.04 | |
| 13:55 | 0.2 | West | 0.04 | |
| 14:05 | 0.1 | West | 0.005 | |
| Average | 0.418421053 | | 0.630394737 | |
| Comment | | | | Assessor: Raihan, Andi |



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Appendix Table 2, Tidal current 24 June 2019

| Site Name: | Padang | Date: | 24/06/2019 | Equipment: Flow Watch CDCFL-03 | |
|--------------|------------------------|--------------------------|-----------------------|-----------------------------------|--|
| Location: | | | | | |
| | Lat: -6.2107990 | | Long: 120.4280900 | | |
| Water Depth: | + 1 meter | Time Zone: | WITA | | |
| | | | | | |
| Time | Current velocity (m/s) | Current direction (from) | Power Density (kW/m2) | | |
| 10:51 | 0.1 | East | 0.005 | | |
| 11:11 | 0.1 | East | 0.005 | | |
| 11:31 | 0.2 | East | 0.04 | | |
| 11:51 | 0.1 | East | 0.005 | | |
| 12:11 | 0.2 | East | 0.04 | | |
| 12:31 | 0.2 | East | 0.04 | | |
| 12:51 | 0.3 | East | 0.135 | | |
| 13:11 | 0.1 | East | 0.005 | | |
| 13:31 | 0.3 | East | 0.135 | | |
| 13:51 | 0 | East | 0 | | |
| 14:11 | 0 | East | 0 | | |
| 14:31 | 0.1 | West | 0.005 | | |
| 14:51 | 0.1 | West | 0.005 | | |
| 15:11 | 0.1 | West | 0.005 | | |
| Average | 0.14 | | 0.03 | | |
| Comment | | | | Assessor: Raihan, Andi | |