

PT SuryaTek Portfolio

This Portfolio represents a selection of our Projects & Services

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About SuruaTek

PT SuryaTek Indonesia is a nationwide supplier of photovoltaic equipment. From separate components to complete PV Systems. We have installed over 5 MW across the country. Grid tied, Hybrid and Off Grid as well. With our one-stop shopping philosophy and dedicated staff members we provide our customers a complete solution. From full design until installation and maintenance. Our technical staff is educated by the Dutch Delft University. PT SuryaTek is also licensed by the ESDM (Indonesian Ministry of Energy) according to D.35 & 112. We are committed to serve our customers with the best service against a fair price.

Education



Consultation



Design



Installation



Maintenance





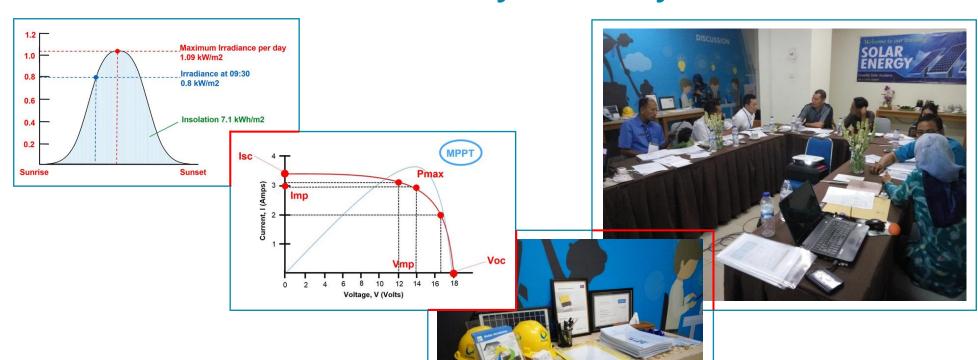
Lismawati van 't Wout,
Owner Founder PT SuryaTek







Education: SuryaTek Academy



SuryaTek Academy offers a number of standard courses in the field of PV System design. Customization is also possible for companies and schools. The courses are mainly aimed learning by doing.









Education: SuryaTek Academy





SuryaTek Academy also offers practical training. SMK Students install a 2000 Watt PV System. They perform everything under supervision of PT SuryaTek. Testing the system is also part of the training.

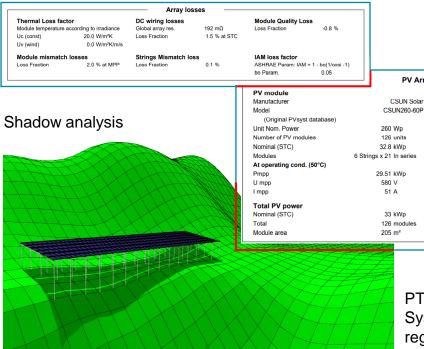


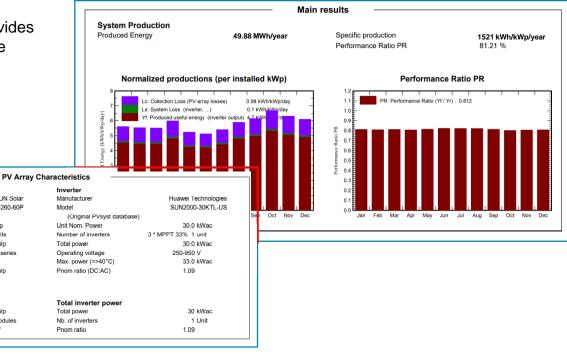






The design of the PV System is the basis for a properly functioning system. A good intake with the customer provides the necessary data that serve as the starting point for the design.





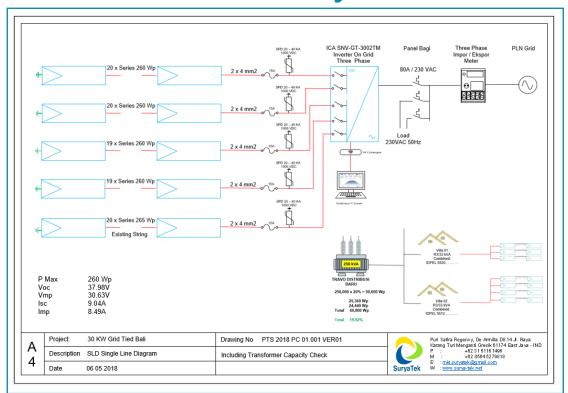
PT SuryaTek has the knowledge and experience to design well-balanced PV Systems. Balanced means taking into account the requirements of the PLN, regulations of netmetering as well as the customer's consumption.

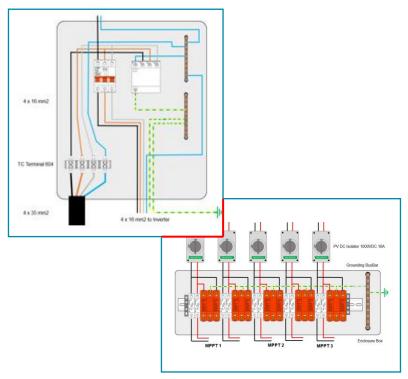












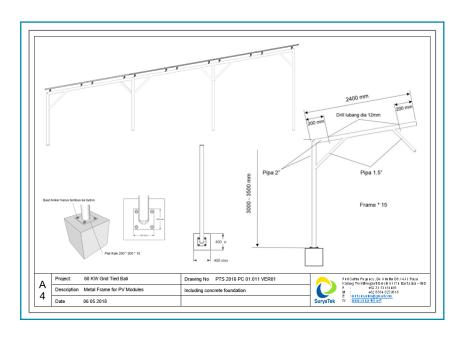
PT SuryaTek will make all necessary drawings to make sure the project will be successful. All enclosure boxes will be detailed out including wiring.





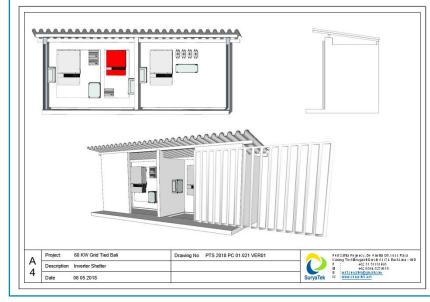






PT SuryaTek will not only design the PV System but also will take care of all mechanical design like metal frames, inverter housing etc.



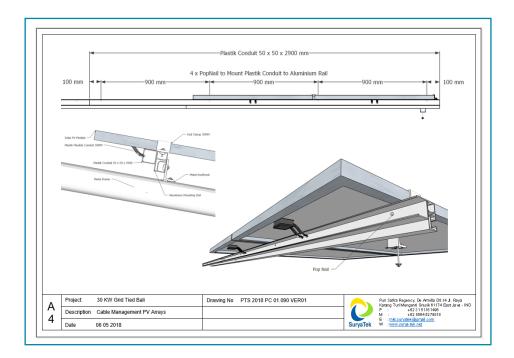




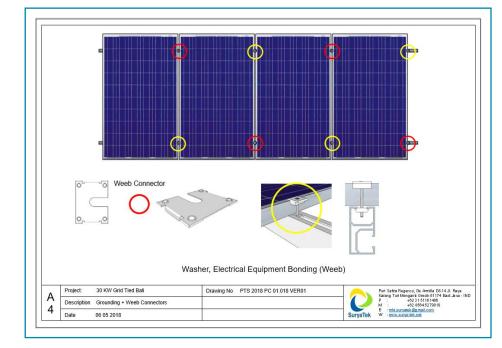








PT SuryaTek will take care of a system for cable management. All cables will be protected by conduit as much as possible. This protects your investment for the longer period. Grounding PV modules to eliminate shock and fire hazards is required by the SNI, Standar Nasional Indonesia. PT SuryaTek uses WEEB connectors to do this in a proper way. Sharp ridges on them penetrate through the non-conductive coatings of the aluminum module frames and mounting racks.



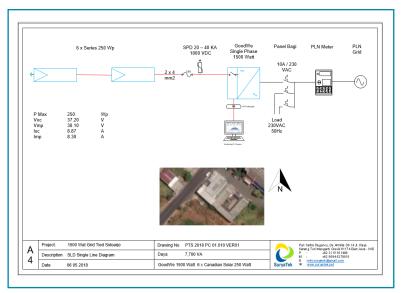








1500 Watt Sidoarjo Self Consumption







PT SuryaTek installed it's first system almost 10 years ago. Today it's still running fine and produces the expected yield every day. This first installation contained out of 6 PV Modules. Our latest installation consisted out of more then 10,000 PV Modules. Self Consumption means that all produced yield by the PV System will directly be consumed by all electrical appliances in the building.

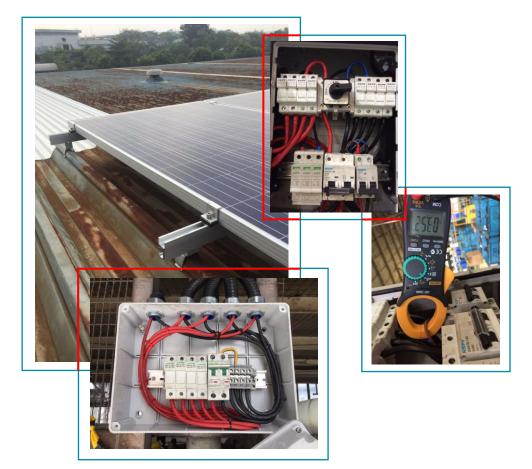


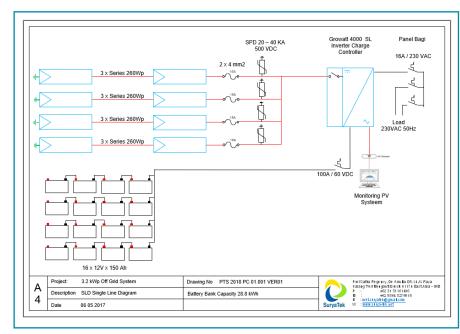






3.2 KW Off Grid Bekazi





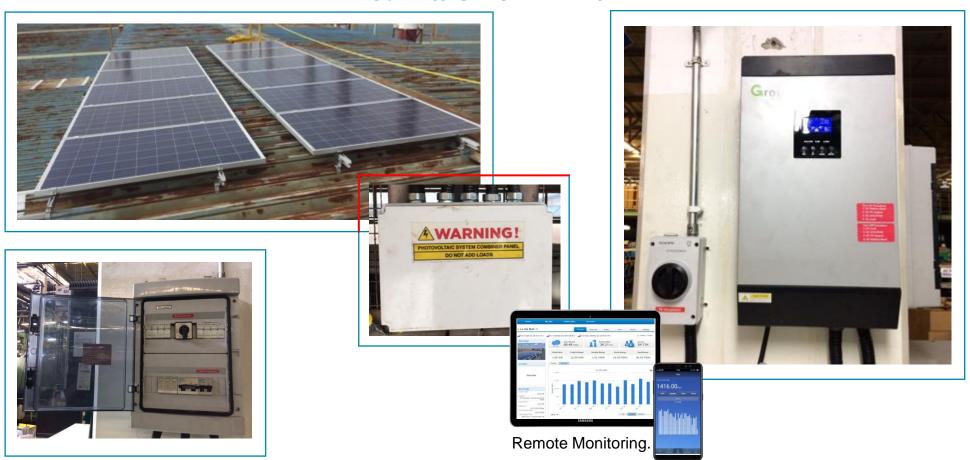
PT SuryaTek installed this system for a factory in Bekasi. The factory installed it to make sure that one of their crucial equipment parts will never run out of electricity.







3.2 KW Off Grid Bekasi





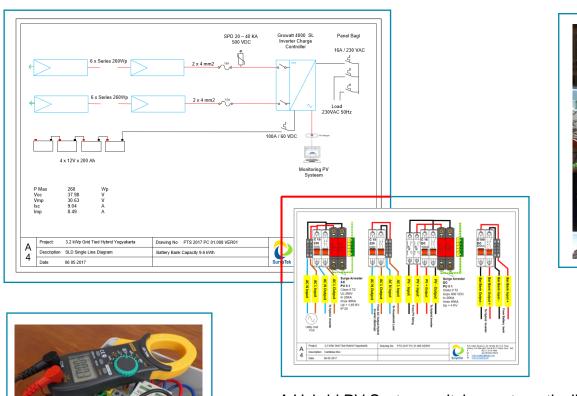








3.2 kWp Grid Tied Hybrid Yogyakarta





A Hybrid PV System switches automatically to the battery back-up mode when the PLN drops out. You will hardly notice and always have electricity in the house. Even when the PLN drops out.









3.2 kWp Grid Tied Hybrid Yogyakarta



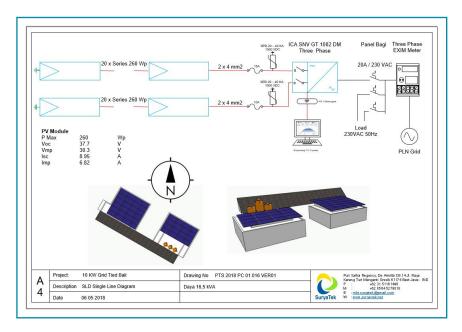






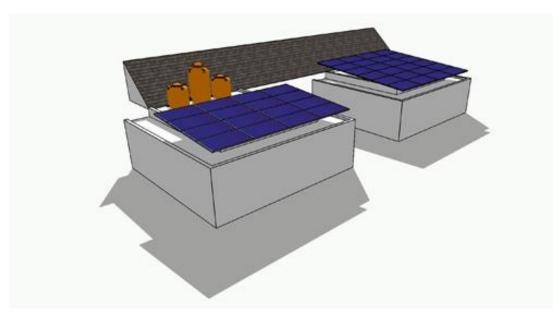






PT SuryaTek prepared all administrative and technical documents necessary to get approval and permission of the PLN to install the PV System.

Shadow analysis is part of our design for a project. What is the negative influence of any shadow?















The flat roof mounting system is custom made and designed and installed by PT SuryaTek.



PLN Testing and approval.









Two Array's of 20 solar panels each. Total capacity 10,000 Wp.

Finished Inverter-room. 10 KW 3 Phase Inverter. The system is connected with the internet so it can be remote monitored.















Remote Monitoring.

3.2 kWp Grid Tied Hybrid Yogyakarta



12 x 260 Wp Solar Panels. Total Capacity 3,120 Watt.



Hybrid Residential System. Battery Bank: 9.6 kWh. Including ATS, Automatic Transfer Switch.









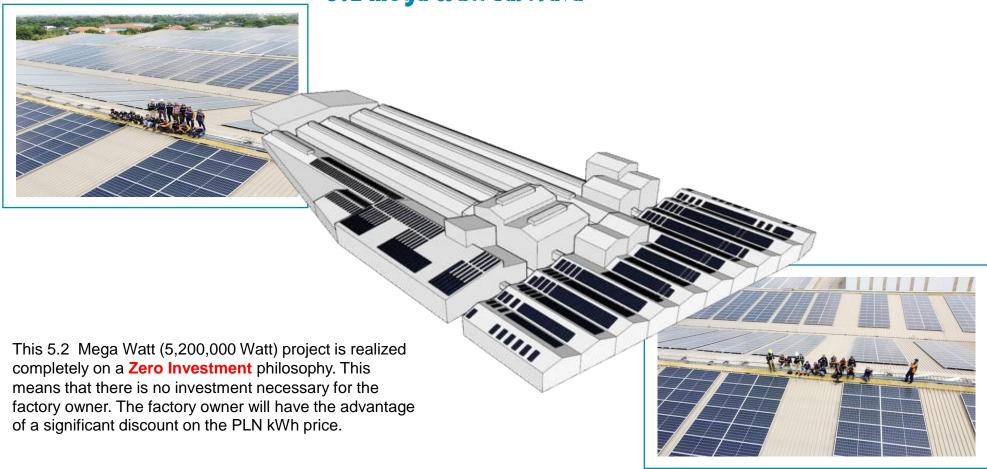














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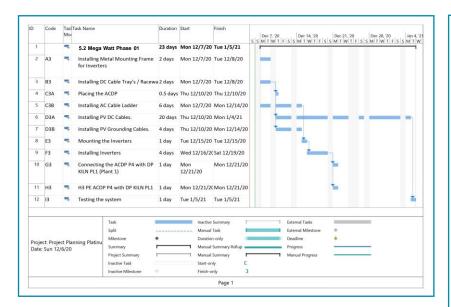
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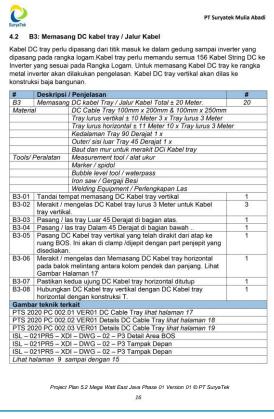






5.2 Mega Watt East Java





The preparation for the installation of this project has been carried out by PT SuryaTek.

The starting point is good planning and a project plan in which the tasks to be performed are clearly defined.

All this to avoid ambiguity during the implementation phase of the project. On the left is a schedule plan and a page from the project plan.



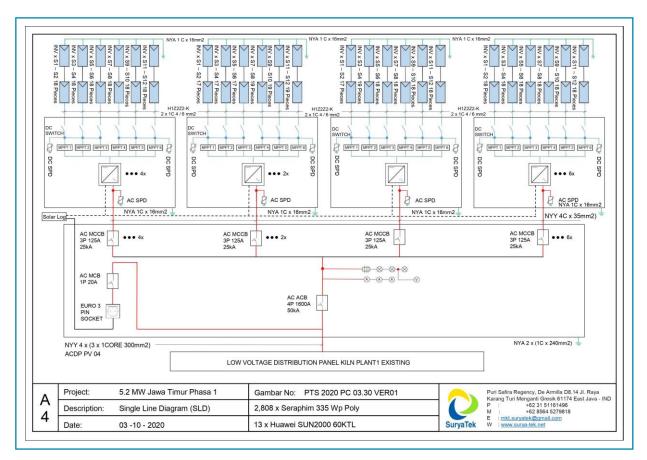












Inverters Huawei SUN2000 60KTL.

Solar panels Seraphim 335 Wp Poly. Solar panels Seraphim 440 Wp Mono.

Installed 285 Km DC Cable 4/6/ and 10 mm2. Installed 3,2 Km AC Cable 240/300 mm2. Installed 450 M Grounding Cable 180/240 mm2.

Installed BOS room facilities for the inverters.

Installed AC Cable ladders.
Installed DC Cable trays.
Installed data cable + Solar log.

Installed Pyranometer Kip & Zn.

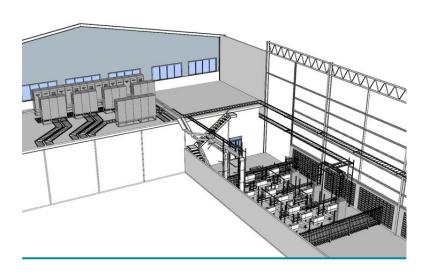
All necessary tests performed. Responsible for Project Management. Responsible for Project Planning. Produced all necessary drawings.



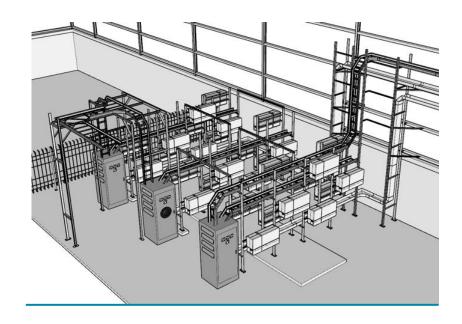








PT SuryaTek makes a 3D model of the Industrial Project. We do this to avoid ambiguity during implementation. This way we can detect problems before execution takes place. From this 3D model we generate all the necessary drawings for the project.

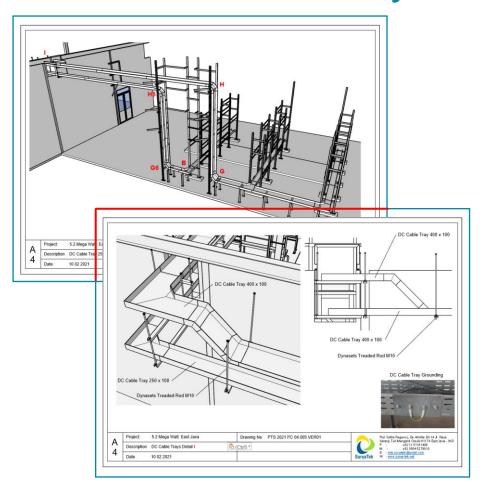
















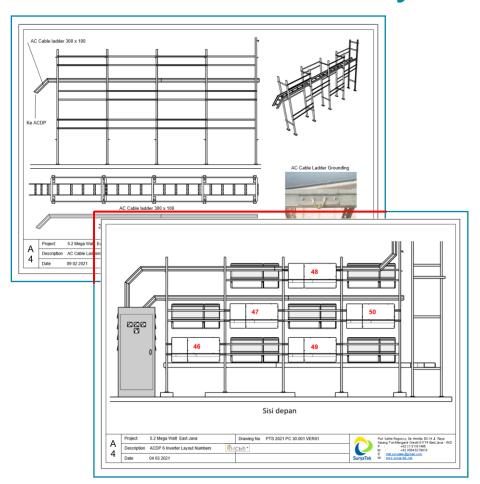














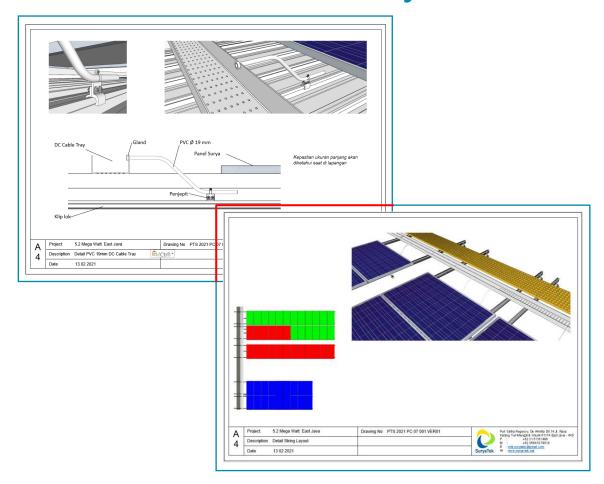












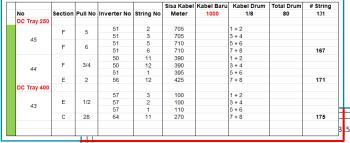






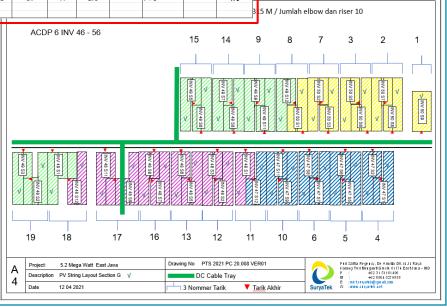






Pulling 285 km DC String cable requires careful preparation. The shortest length was 130 meters and the longest 400 meters. All string cables are made of 1 piece. PT SuryaTek made the Pull Scheme. We installed four strings per pull.

























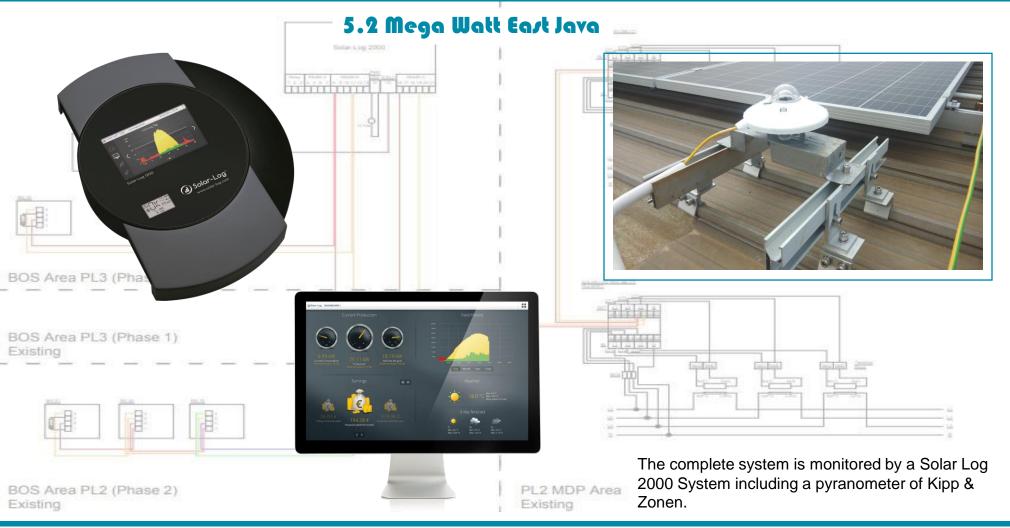














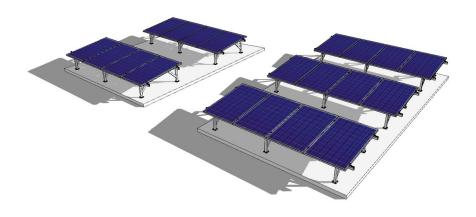


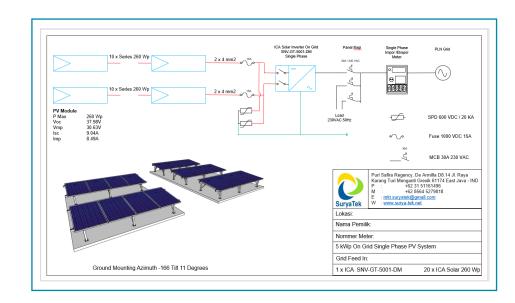






Shadow analysis is part of our preparations for a project. What is the negative influence of shadow if any?





PT SuryaTek prepared all administrative and technical documents necessary to get approval and permission of the PLN to install the PV System.













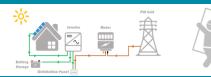
Custom made ground mounting system designed in installed by SuryaTek.

All PV Systems are installed according to SNI Standar Nasional Indonesia and the updated PLN regulations.















Remote monitoring.

20 x 260 Watt Solar Panels installed. Total capacity 5,200 Watt.



Single Phase 5 KW Inverter.







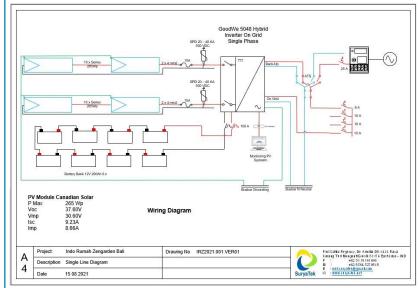






Shadow analysis is part of our preparations for a project. What is the negative influence of shadow if any?

PT SuryaTek submits the application to the PLN and provides all necessary technical and administrative documents.















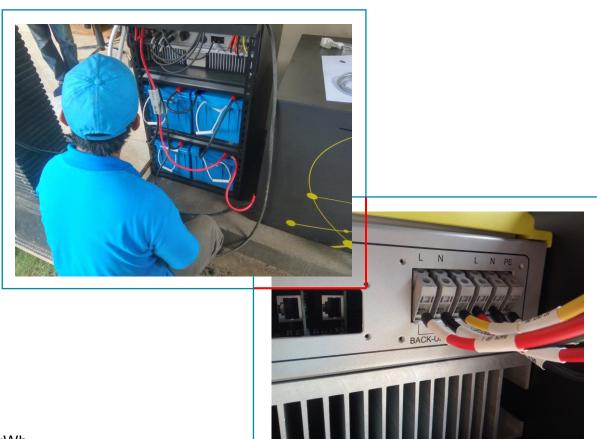












Fully integrated system. Battery bank 19,2 kWh









20 x 265 Watt Solar Panels installed. Total capacity 5,300 Watt.



Remote monitoring.



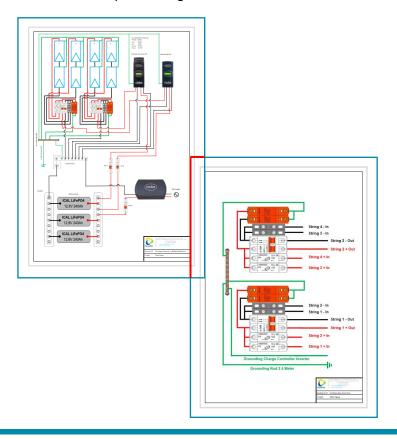






Plug & Play Service Installation

PT SuryaTek also has many customers in remote areas of Indonesia. Think of West Papua, Sumatra, Kalimantan, etc. These customers depend on good advice and a clear installation manual. PT SuryaTek provides this service.



- Based on the intake PT SuryaTek design's The Off Grid System.
- Everything will be made as much as possible Plug & Play. For example all cables for the battery bank are prepared on length and the terminals will already be attached.
- Components are protected by wooden racks during shipping.
- A clear and complete installation guide will be provided to the client.
- During Installation PT SuryaTek is online available for guidance and questions.









Plug & Play Service Installation

By applying the Plug & Play Service Installation concept, PT SuryaTek has already helped many remote customers with a well-functioning Off Grid PV System.









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Education



Consultation



- ❖ Design
- ❖ Installation
- Maintenance





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Owner Founder PT SuryaTek

