







## SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



## CERTIFICATIONS



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## About Ecosun

*Renewable energy company preeminent in commitment to efficient energy management and work towards a goal where Sustainability is Second Nature*

*We offer innovative solar energy products that are easy on the wallet and the environment. Ecosun specializes in On-Grid solar electric design and installation, offering the latest an effortless experience. We strive for win-win scenarios with both our customers and employees.*

*Since our business is built on happy customers who are eager to refer their friends and family, its in our best interest to provide exceptional customer satisfaction and service in every aspect of installation.*

*With a keen focus on continuously striving to maintain optimum service delivery and quality while maintaining the best safety standards, we are, ISO 9001:2015 certified.*

## Why Ecosun?

- Well Qualified Technical & NISE Execution Team
- ISO 9001: 2015 Complied for Quality standards
- Only Grade A & Tier-I solar components used
- Strict selection criteria for Suppliers
- Customer References & Testimonials available on request
- Reports on Simulation Software of PVSyst and Google Sketch available
- Committed long term partner with the option of AMC Post Warranty
- Complete technical support for Net Metering process which involves liaisoning with the Electricity Board
- Financial support through banks

## Certifications



ICRA  
ANALYTICS  
A Group ICRA Company



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## Certified Channel Patners For







*As a process oriented organization, we are QMS complied with ISO 9001:2015 certification. To further add to our credentials, we humbly boast of being given 2C rating by ICRA which cements our technical solidity.*

*With skilled workforce of more than 20 employees spread across locations, we are committed to deliver quality with excellence for customer satisfaction. Our technical teams are certified by external agencies like NISE for superior performance.*



**800+  
CLIENTS**



**5 MW+  
COMPLETED PROJECTS**



**50,000 TON  
Total Reduction in  
CO2 EMMISION**





As a systems integrator, we offer turnkey solar project services within specified quality parameters and timelines.



### Engineering, Procurement & Construction (EPC)

- Engineering design Consultancy
- Equipment supply
- Civil planning
- Construction
- Erection
- Commissioning
- Training, Management Hand-over



### Re-Engineering & Re-Development

- **Refurbishing services** to improve monitoring and maintenance.
- **Optimization services** to achieve desired performance levels.
- **Replacement services** of existing material, design, engineering and auxiliary services with new ones to increase overall life span of the solar plant.



### Operation & Maintenance (O&M) Services

- **SCADA Photovoltaic Remote Monitoring Systems**  
Real Time Data | Performance Alerts | Web/Cellular Monitoring Min. Downtime
- **Preventive and Corrective Maintenance**  
Inspection | Testing | Cleaning Repairs | Replacements
- **Infrastructure and Training**







## RESIDENTIAL



Cost of electricity for lighting common spaces like stairways, open areas, lifts, water pumps can be significantly reduced by going solar.

With our solar power solutions, we guarantee 25\* years of consistent electricity generation. Residential societies and stand alone houses can achieve significant savings on their electricity bills, and be guarded against the rising tariff rates. Installing solar will also help in appreciation of market value of your asset.

We provide assistance in applying for subsidy, wherever eligible.



## INSTITUTIONAL



Consistent supply of electricity is a basic requirement to provide hindrance free education. Our solar power solutions ensure hassle free power supply, provide significant savings in electricity bills, and also inspire future generations on renewable sources of energy.

Installing solar panels help maintain an image of an environment-friendly institute and increases the brand value. Institutes can also reduce education fee owing to reduced operational electricity costs, eventually keeping them ahead of competition.

We have successfully installed rooftop solar solutions in many schools as a part of CSR of renowned companies.



## INDUSTRIAL/COMMERCIAL



Rising overhead costs cause a dent in a company's profitability. Our solar power solutions help industries reduce electricity bills and divert the funds to more productive avenues. They also provide consistent electricity output for seamless business operations.

It reduces peak loading of the grid following to which the variable cost is also reduced.

Solar for Industries is an ultimate model for achieving the goal of 100GW Solar Mission of India.



# **Quality Assurance**

To ensure quality of the project, we produce QA/QC documents required at each activity, for close supervision and maintaining the necessary compliance for project records. These QA Plan documents show how the company defines, selects, implements and assures quality during Survey, design, procurement, erection, installation and commissioning process.

The QA Plan is a communication vehicle for the entire organization including the promoters, project managers, technical engineers, design engineer, structural developers, analysts, and other project teams involved.

Our dedicated Quality Assurance Team independently deals with matters related to Quality for all the products and services offered.

## PROJECT WORKFLOW





## **Installation Types**

### ROOFTOP



Ideal for scenarios where open ground space isn't available. With rooftop solar empty rooftop can be put to use for power generation. Rooftop solar installations are known to reduce leakages and improve insulation.

### GROUND MOUNTED



Ground Mounted solar plants work well on large open space and can give benefit of significant long-term savings. Ideal for institutions and industries where captive consumption is high and open spaces are available for use.

### NET METERING

Net Metering is the process through which Solar PV Generator consumes and sets-off its surplus energy / power back to the utility company (Discom) and in this process the consumer energy bill will get reduced.

Net Metering arrangements, thus, combine elements of captive consumption and exchange of power with the utility.

In the absence of grid power, the Rooftop SPV will continue to supply the power in case of hybrid setups.



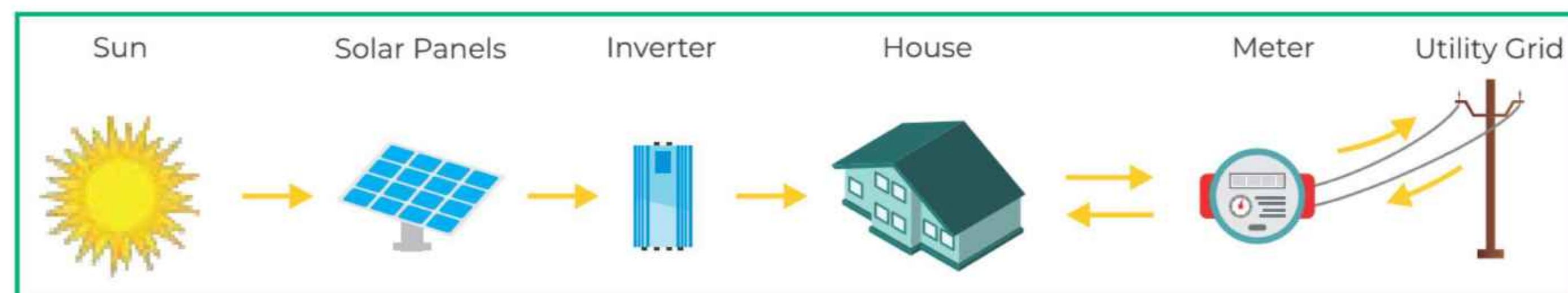
# Types of Solar Plants

## ON-GRID

On -Grid Solar Systems are essentially installed in Residential, Commercial and Industrial buildings where regular power supply from State providers is available. This system can be upgraded to a hybrid system with battery backup.

### Advantages

- Lower equipment costs as compared to Off-Grid Solar.
- Reduce the burden of high tariff electricity bills, year on year tariff increase (avg. 5%).

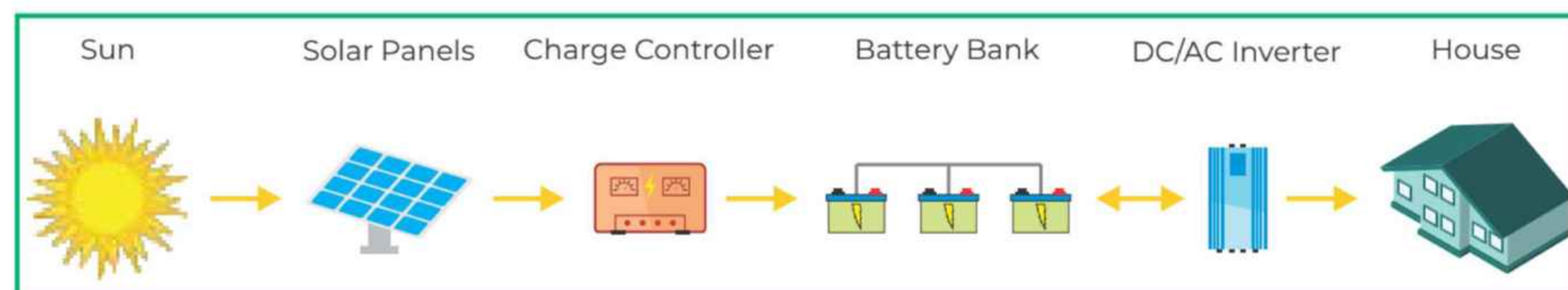


## OFF-GRID

Off-Grid Solar Systems with battery backup are essentially installed in locations where there is no state Net-Metering Policy or the Grid is not reliable with frequent power cuts.

### Advantages

- Most suitable for remote installations where power is not available or unreliable with frequent power cuts.
- Customers can size the battery bank as per needs.



## TRADE PARTNERS





## **Why Solar?**

Consistent supply of electricity is a basic requirement whether it is for hindrance-free education, seamless business operations or reducing maintenance overheads. Soaring electricity bills, increasing power outages and deteriorating environmental conditions, make solar energy the most viable and long term solution. We at Ecosun Power Solutions, constantly strive to provide our customers with a customized solution that helps them seamlessly migrate to Solar Power. Set an example for your future generations.



Up to 0\*  
Electricity bill



3-5\* times cheaper  
than regular Grid electricity



0 Carbon  
Footprint



20+ years with  
fixed cost of generation



40%\* Accelerated  
Depreciation (A.D) Benefit



Up to 2% maintenance  
cost of system cost



## **Operation & Maintenance (O & M)**

Operation & Maintenance (O&M) is one of the most critical ways to ensure that the solar power system gives the best possible generation. At Ecosun, we work to maintain the plant infrastructure and equipment, with the goal of improving the equipment's life by preventing excess depreciation and impairment. This enables the solar power plant to produce the maximum amount of energy throughout its operational life, perfectly aligning the interests of developers, clients and the investors. Combining our experience in plant maintenance and advanced diagnostics with our expert O&M staff using a remote monitoring system, Ecosun ensures the plant functions smoothly, thereby continuously generating solar power.

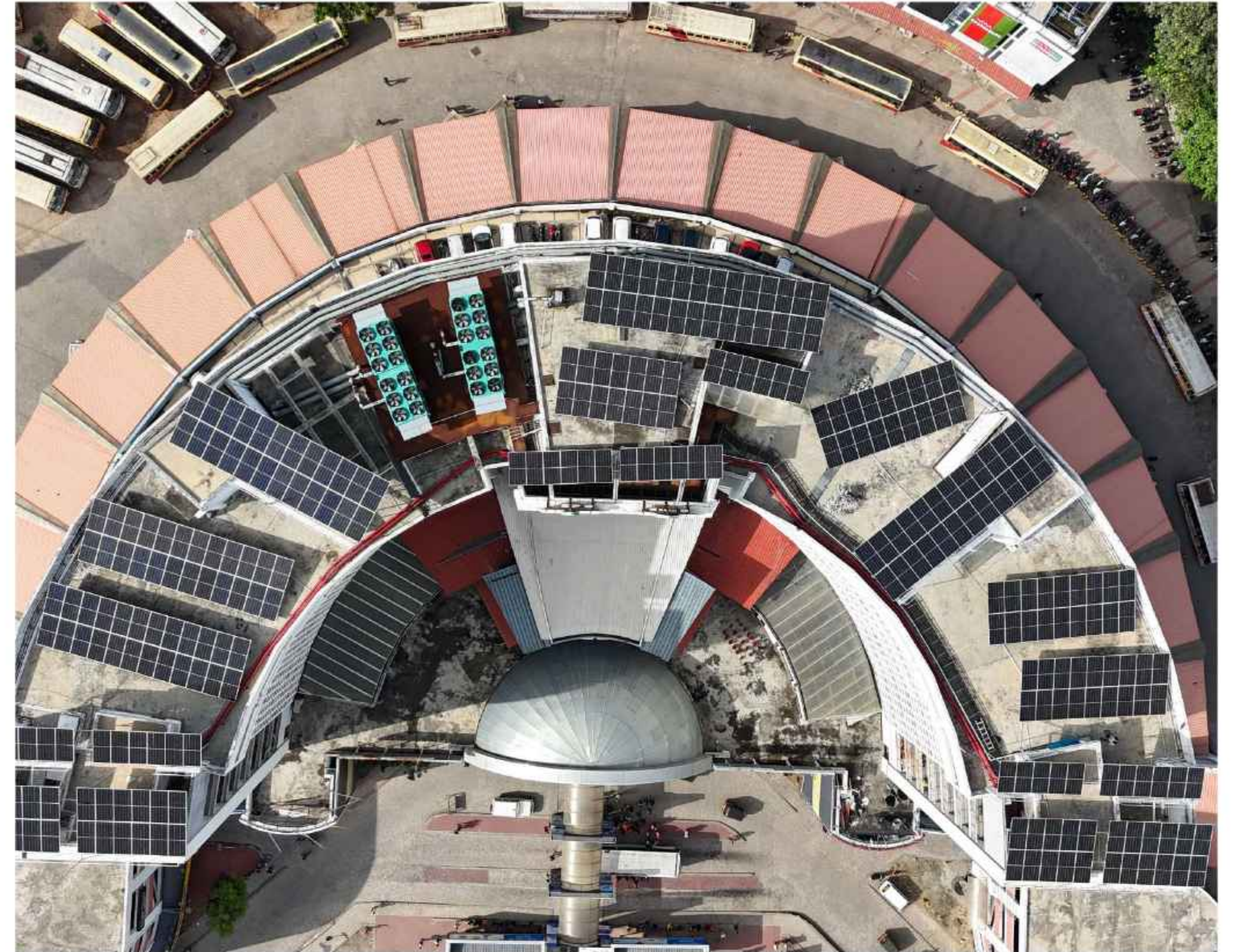
*During this inspection, technicians from Ecosun:*

- *Ensure roof drainage is adequate, roof drains are not clogged and confirm that there are no signs of water pooling near the array*
  - *Ensure roof penetrations (if any) are watertight*
  - *Check for ground erosion near the footings of a ground mount system*
  - *Confirm electrical enclosures are only accessible to authorised personnel*
  - *Check for corrosion on the outside of enclosures and the racking system*
  - *Check for cleanliness throughout the site to ensure that there is no debris in the inverter pad area or elsewhere*
  - *Check for loose hanging wires in the array*
  - *Check for signs of animal infestation under the array*
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## ***Our Major Commercial Projects***



150 KW @ KSRTC Terminal Bus Stand,  
Thiruvananthapuram



## ***Our Major Commercial Projects***



150 KW @ Jimmy George  
Indoor Stadium,  
Thiruvananthapuram



## ***Our Major Commercial Projects***



100 KW @ Olivia Hospitalities PVT Ltd  
Alappuzha



## ***Our Major Commercial Projects***



80 KW @ Swaraj Bhavan, Nanthancode  
Thiruvananthapuram



## ***Our Major Commercial Projects***



**50 KW @ K R BAKES Factory  
Kalamassery, Ernakulam**



## **Our Major Commercial Projects**



40 KW @ State Election Commission Office,  
PMG, Thiruvananthapuram



40 KW @ Multi Speciality Vetenerary  
Hospital, Kudapanakunnu,  
Thiruvananthapuram



# **Our Major Commercial Projects**



32 KW @ V V Memorial Hospital,  
Cheruvathur, Kasargod



30 KW @ Nirmalagiri College, Kannur



25 KW @ Abad Spring Field Plaza,  
Aluva, Ernakulam



30 KW @ Bianco Restaurant  
Paravur, Alappuzha



## **Our Major Commercial Projects**



25 KW @ Paragon Agencies  
Vellakinar, Alappuzha



15 KW @ Grama Panchayat,  
Chowannur, Thrissur



15 KW @ K R Bakes,  
Pala, Kottayam



15 KW @ Block Panchayat,  
Nileswar, Kasargod



## **Our Major Residential Projects**



10 KW @ the residence of Dr Cibine  
Muvattupuzha, Ernakulam



10 KW @ the residence of Mr Sudheesh  
Peroorkada, Thiruvananthapuram



5 KW @ the residence of Dr Shefil Sharaf  
Karicode, Kollam



10 KW @ the residence of Mr Raheem  
Mahe



## **Our Major Residential Projects**



5 KW @ the residence of Mr N C J John,  
Alappuzha



5 KW @ the residence of Mr Vipin S  
Alappuzha



5 KW @ the residence of Mr Jogy Mathai  
Parumala, Pathanamthitta



5 KW @ the residence of Mr Showkathali  
Manarkkad, Palakkad



# **Our Major Residential Projects**



5 KW @ the residence of Mr Anilkumar,  
Irinjalakuda, Thrissur



5 KW @ the residence of Mr Augustine  
Aluva, Ernakulam



5 KW @ the residence of Mr Thomas P  
Palarivattom, Ernakulam



5 KW @ the residence of Mr Alex Polachirakkal  
Mavelikkara, Alappuzha



# **Our Major Residential Projects**



3 KW @ the residence of Dr Sreenivasa Pai,  
Alappuzha



3 KW @ the residence of Mr Balachandran  
Kanhangad, Kasargod



3 KW @ the residence of Mr Jijo Joseph  
Mulanthuruthy, Ernakulam



3 KW @ the residence of Mr Koshy Thomas  
Kattanam, Alappuzha



# **Our Major Residential Projects**



3 KW @ the residence of Mr Thomas Issac  
Alappuzha



3 KW @ the residence of Mr Devapalan(Rtd SI)  
Alappuzha

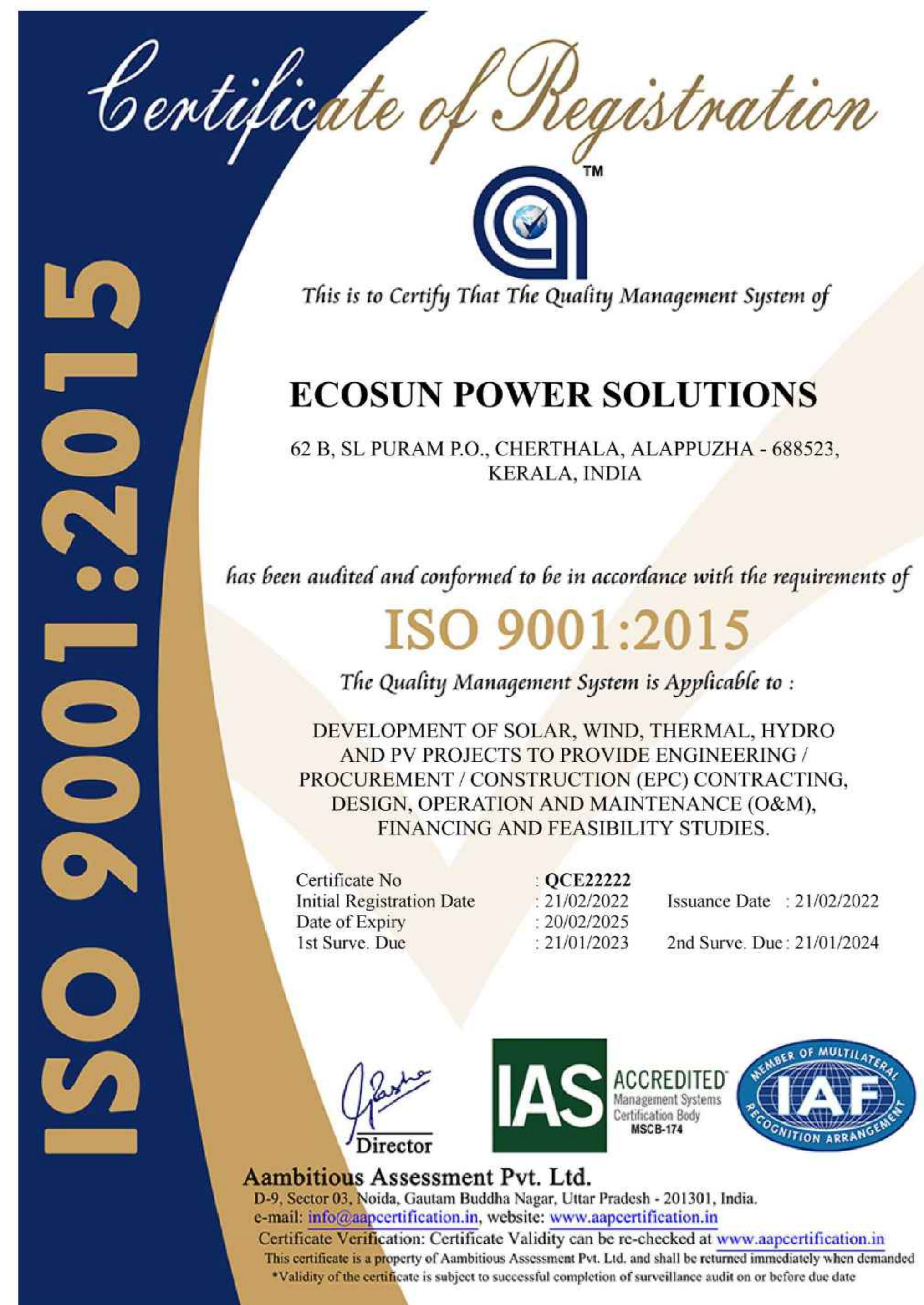
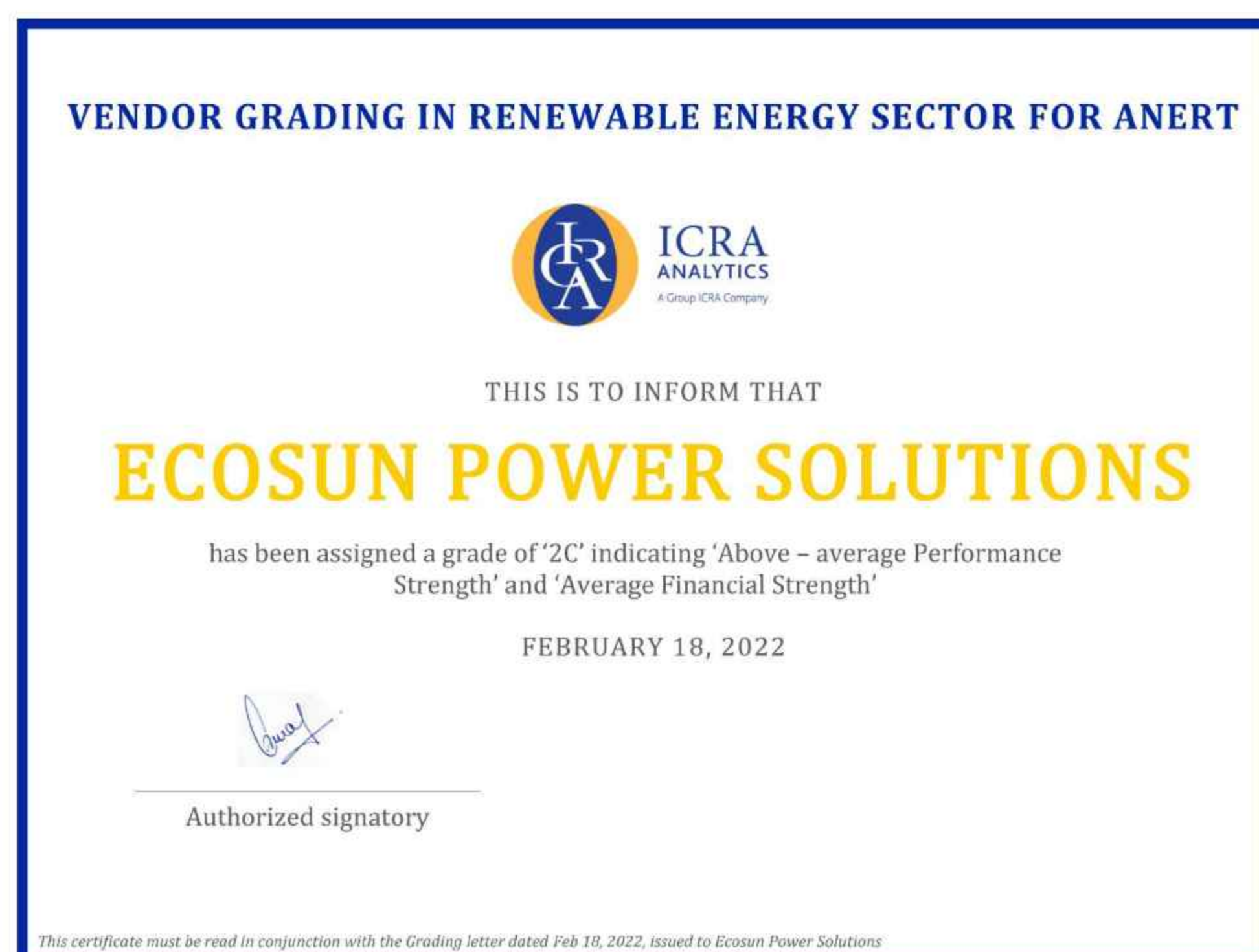


3 KW @ the residence of Mr Binu  
Alappuzha



3 KW @ the residence of Mrs Jayasree  
Thiruvananthapuram









P O W E R   S O L U T I O N S

**An ISO 9001 : 2015**

**CERTIFIED COMPANY**

**KERALA | KARNATAKA | TAMILNADU**

**REGISTERED OFFICE :**

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