SUN ENERGY

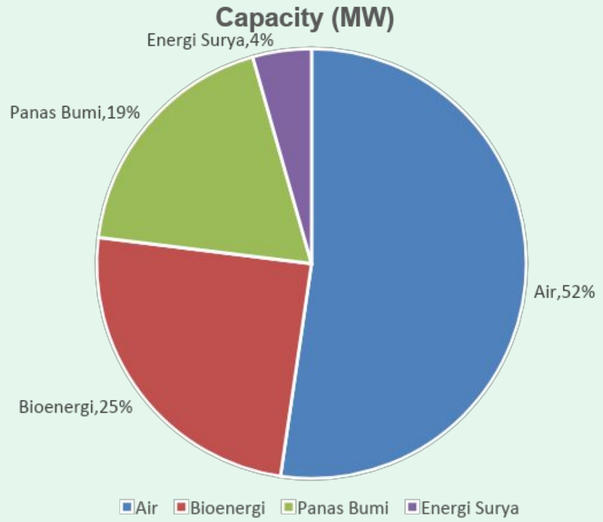
Shaping Future Energy with Integrated Solar

www.sunenergy.id

Accelerating the Utilization of Solar Energy in Indonesia

Our Current Condition

The utilization of renewable energy has been increasing in recent years.



With total of installed capacity of 13,155 MW in year 2023.

Source: MEMR, 2023

Unlocking Potentials

Renewable energy, specifically solar energy, carries great potential that able to be utilized in Indonesia.

Largest Source of Renewable Energy

Reaching over 3,000 GW of potential installed capacity.

High Solar Irradiation Intensity

With an average solar radiation intensity of about 4.8 kWh/m2 per day.

Future Energy Sources

Sustainable alternative to replace the use of non-renewable energy.

Supporting the Efforts

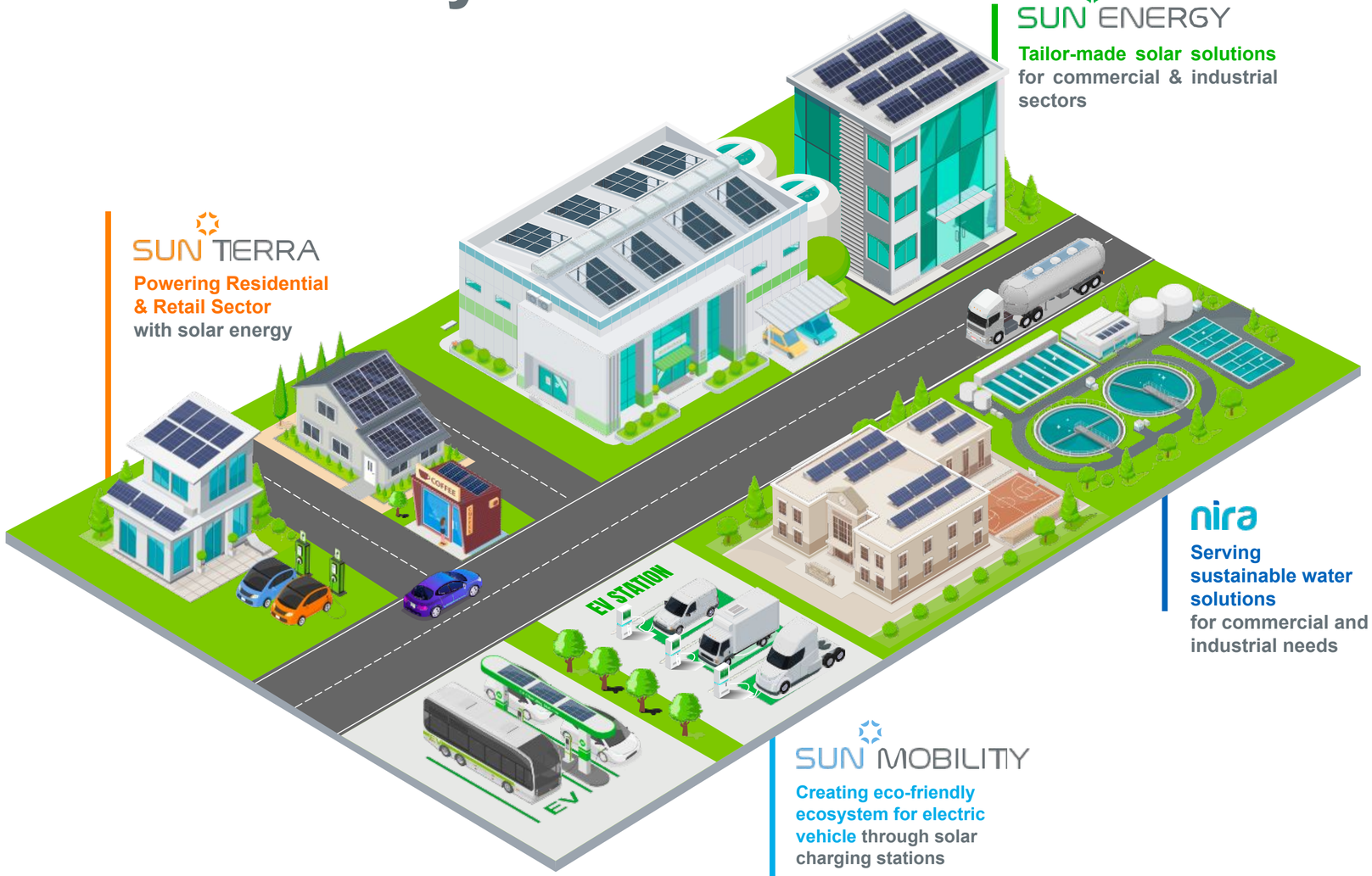
Providing Smart Solar System

Solar systems use AI technology to monitor and directly optimize energy use, boosting efficiency and saving more energy.

Easy Operation & Maintenance Services

Solar systems offer hassle-free solutions for buildings with minimal maintenance required.

Introducing Your Future
Sustainability Partner



www.sungroup.sg

SUN

SUN Group

From Indonesia to Asia Pacific: Providing Clean and Affordable Energy for All

5 Countries

Expansion across Asia Pacific

Indonesia | Singapore | Thailand | Vietnam | Australia

Empowering Commercial & Industrial Sectors with Solar Energy Solutions

SUN Energy provides comprehensive solar energy services and customized solutions for the commercial and industrial sectors.

Fully Integrated & Tailor Made Solar Solutions

Utilizing reliable technology and experts, we provide integrated solutions that empower the commercial and industrial sectors with tailored specifications for a seamless transition to solar energy.

Facilitating Zero Upfront Cost

Our best offer to the commercial and industrial sectors allows for the installation of a solar energy system at no upfront cost. Pay a monthly fee or rental based on your energy usage.

Trustworthy Solar Energy Solutions for Leading Brands & Industries

SUN Energy is dedicated to meet the needs of leading brands. With more than 150 customers and experience in over 35 industries.

Industrial

Commercial and Property

Financial Institution

Educational Institution

Mining and Others

SUN ENERGY

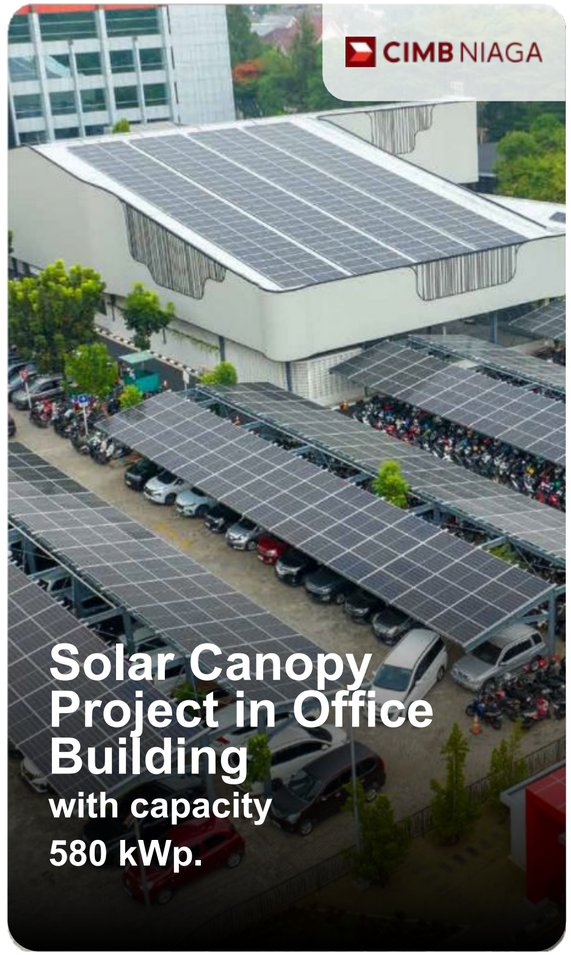
350 MWp
Installed & Contracted Projects in Asia Pacific

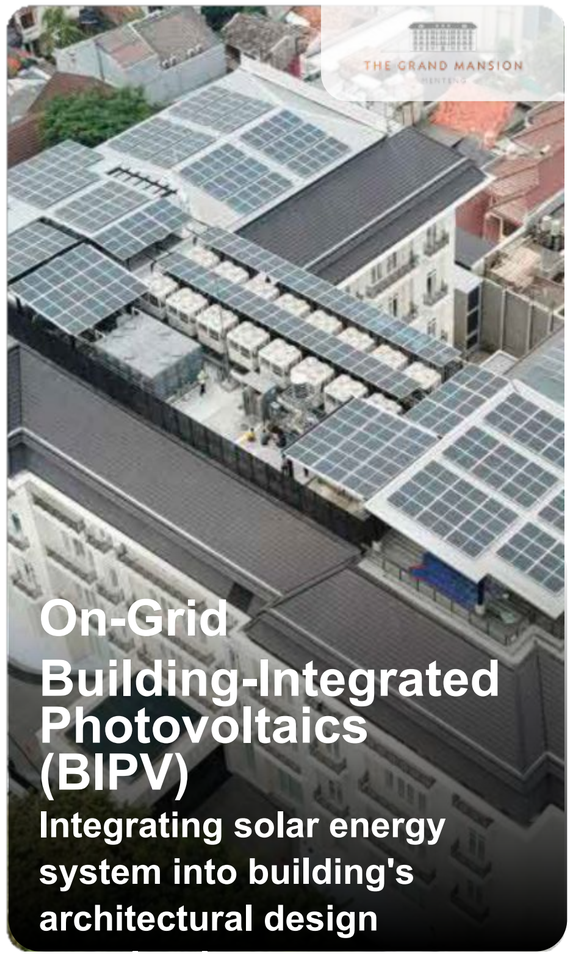
>30 Cities
of solar projects installation in Indonesia

8 Years
of solar projects installation in Indonesia

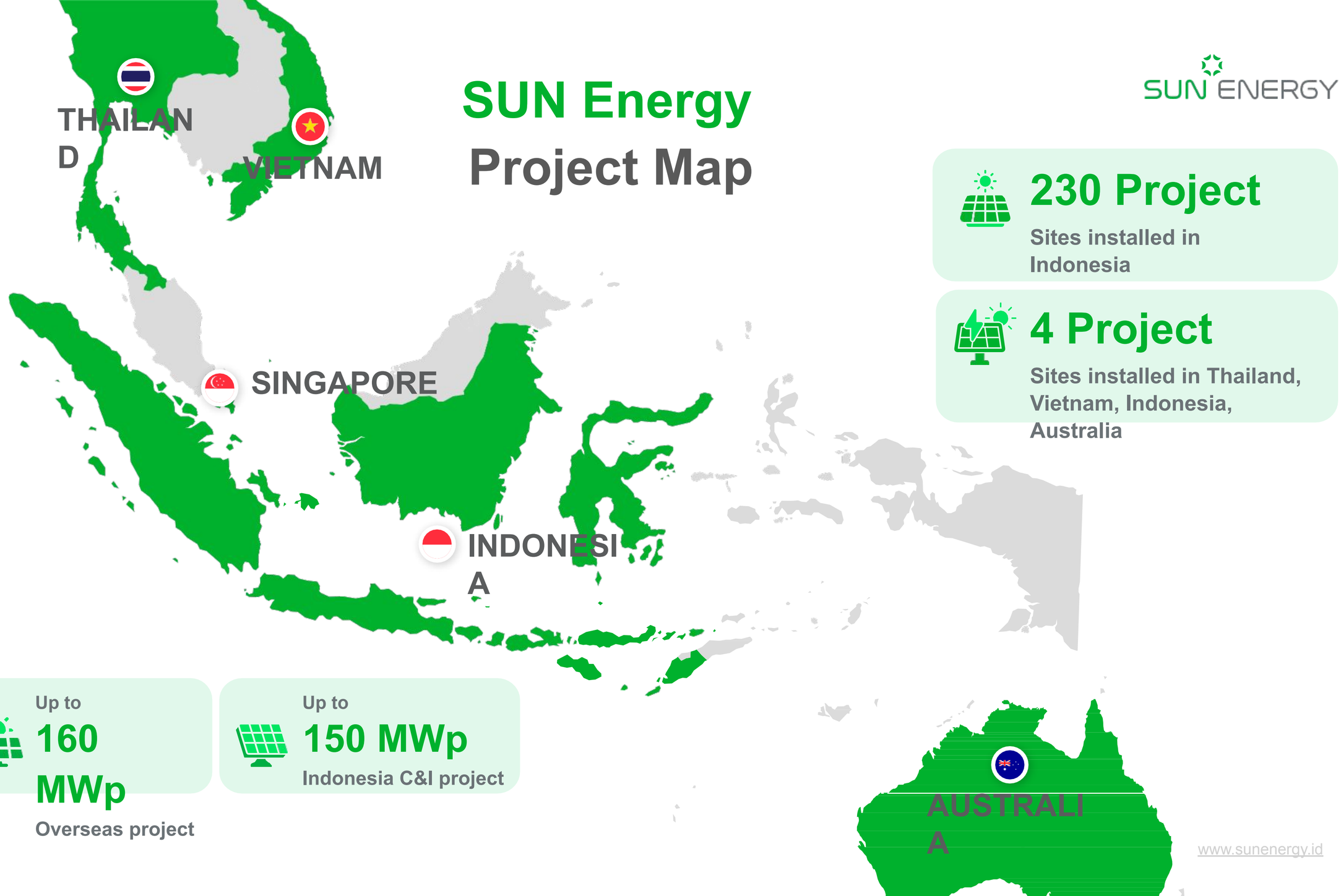
SUN Energy

Innovative Products





SUN Energy
Project Map



230 Project

Sites installed in Indonesia

4 Project

Sites installed in Thailand, Vietnam, Indonesia, Australia

Up to
160 MWp
Overseas project

Up to
150 MWp
Indonesia C&I project

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SUN Energy Notable Projects

Across Asia Pacific

Australia

Merredin Solar Farm, 132 MWp

SUN is proud being a part of the largest Western Australia's solar energy provider, Merredin Solar Farm project acquired in 2021. Currently Merredin Solar Farm powering approximately 42,000 homes with solar energy.

Thailand

Chiang Rai & Nakhon Ratchasima Solar Farm, with total 17 MWp

A couple projects in Thailand through acqusition symbolize how SUN oversee the advantage of Solar Energy utilization in Thailand.

Vietnam

Commercial & Industrial Solar Project, 26 MWp

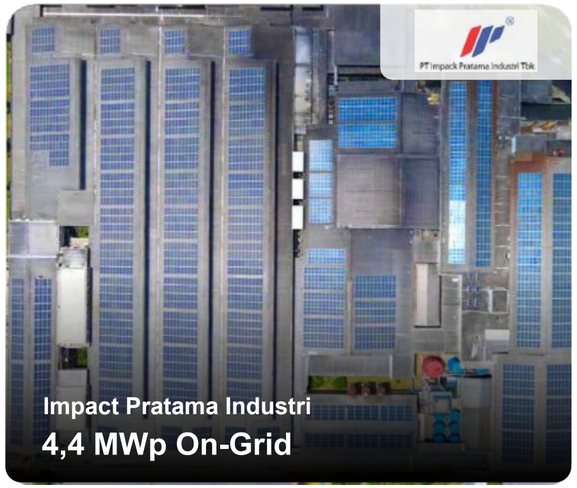
Aiming to take a key role in solar energy development in Vietnam, SUN began managing a solar facility in the C&I sector to support further expansion around Southeast Asia.

SUN Energy Notable Projects

in Sumatra

SUN Energy Notable Projects

in West Java



Impact Pratama Industri
4,4 MWp On-Grid

Bumi Mulia Indah Lestari
2,5 MWp On-Grid

KIA Keramik
3,137 MWp

Rusli Vinilon Cileungsi
1 MWp On-Grid

Pindo Deli 2
3,8 MWp On-Grid

Astra Daihatsu Motor
1,2 MWp
On-Grid

Uniplastindo Interbuana
758 kWp On-Grid

Astra Honda Motor
1,4 MWp
On-Grid

SUN Energy Notable Projects

in Central Java

SUN Energy Notable Projects

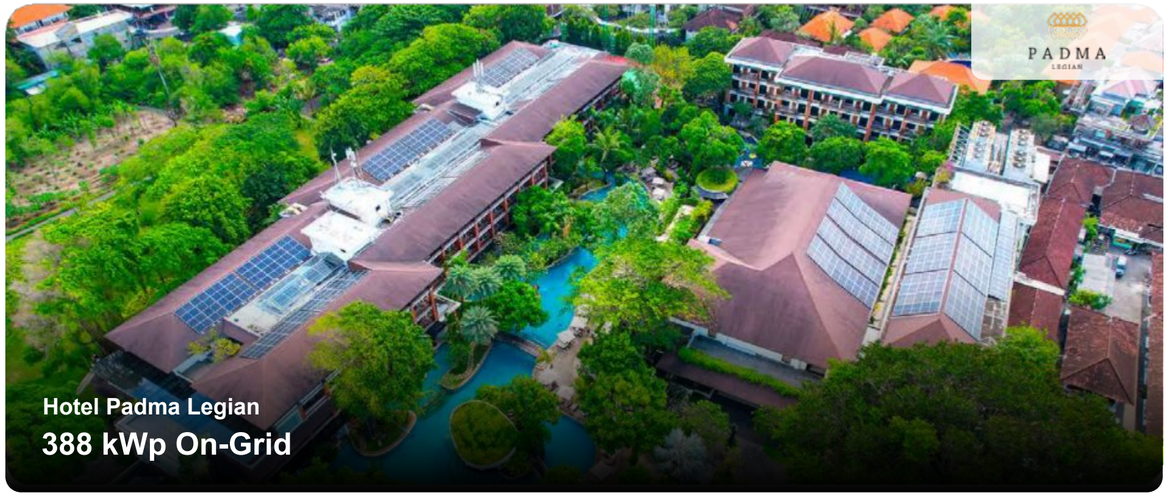
in East Java

SUN Energy Notable Projects

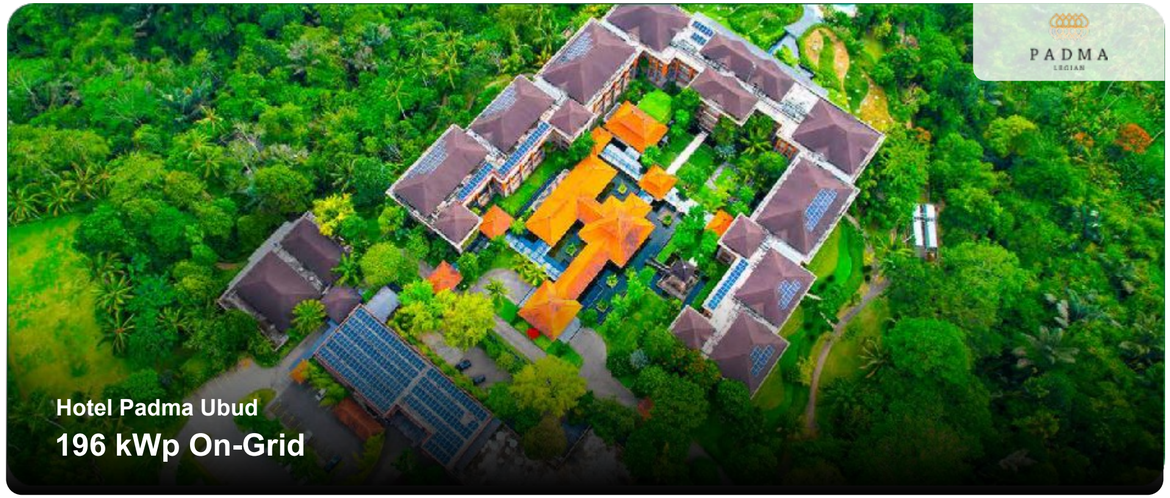
in Kalimantan

SUN Energy Notable Projects

in Bali & Nusa Tenggara



Hotel Padma Legian
388 kWp On-Grid



Hotel Padma Ubud
196 kWp On-Grid

ITDC Nusa Dua
97 kWp On-Grid

Desa Cancar
3 kWp

Supporting Latest Technology for Solar Energy Adoption

We always ensure to use the latest technology to optimize the utilization of solar energy. SUN Energy only uses the best quality products from the world’s leading manufacturers to maintain high performance of your solar energy system.

Advanced IoT Integration

Real-time monitoring and control of solar energy systems through seamless IoT connectivity.

Proactive Safety Features

Huawei-backed security measures and early issue detection for prompt resolution.

Advanced Technology

Cutting-edge developments using AI-powered insights and analytics.

Accessible Expertise & Support

By visiting SUN Energy Tech Space, you will get open access to our experts guidance on solar energy solutions.

'SUN Energy Tech Space,' a 24/7 real-time solar energy system, to provide continuous support and guidance to ensure smooth green energy production at every site.

Achieving Net Zero Emission

through Stakeholder Collaboration

SUN Energy encourages the adoption of solar energy technology in Indonesia by collaborating with multiple stakeholders. We aim to ensure we can achieve our shared long-term goal of Net Zero Emission in Indonesia.

**Collaboration with the national electricity provider,
ensuring regulatory adherence and promoting the integration of renewable energy solutions.**

Striving for a Sustainable Future in Every Way: ESG Excellence

SUN ENERGY

Environmental

Continuously reducing carbon emissions through solar energy system installations as our business core, and applying carbon offsetting to make our operations Net Zero.

UN GLOBAL COMPACT
WE SUPPORT

SUN Energy is aligning its business practices with the United Nations Global Compact (UNGC) for responsible and ethical operations. This alignment supports SUN Group's commitment to achieving the Sustainable Development Goals (SDGs) pillars.

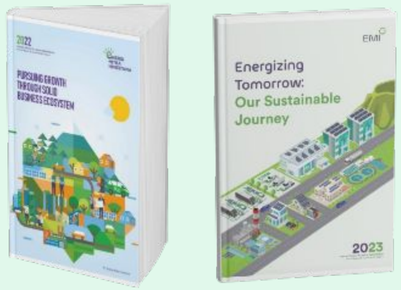
Social

Empowering Indonesians with renewable energy through various initiatives and consistently leading awareness about clean energy sources across generations.

SDGs Pillars

Governance

Aligning our business implementation with responsible and ethical operations, adhering to ISO standards, and publishing an annual report.



Standing as the Largest Indonesian Solar Developer with Proven Best Practices

SUN ENERGY

ISO 9001
Quality Management System

ISO 1400
Environmental Management System

ISO 4500
Occupational Health & Safety Management System

Top 100 Indo Pacific Climate Tech
HolonIQ | 2024

Pengembang Proyek Tenaga Surya Terkemuka
Anugerah Dewan Energi Nasional | 2023

Corporate Excellence Award for Energy Industry
Asia Pacific Excellence Award | 2023

Solar Company Of The Year (Developer C&I)
SolarQuarter | 2023

Largest Solar Developer Company in Indonesia
CNBC Award | 2023

Best Partner of the Year
TrinaSolar | 2022

Best Digital Transformation
Huawei | 2022

BESS Case Study

Operation Scheme Comparison

Option 1
Fully Manual

Pros

1. Cheaper price option for equipment.

Cons

1. Blackout will present when switching everyday which will alter the client existing electricity operation.
2. Need to have manpower standby to manually change switch everyday (increase O&M cost).

Option 2
Partially Automatic

Pros

1. No blackout will occur while switching.
2. Offers automatic switching everyday.
3. No-need manpower standby.

Cons

1. Need manual operation for change over from genset 1 to genset 2 every 200hours as per client operation scheme.

Option 3
Fully Automatic

Pros

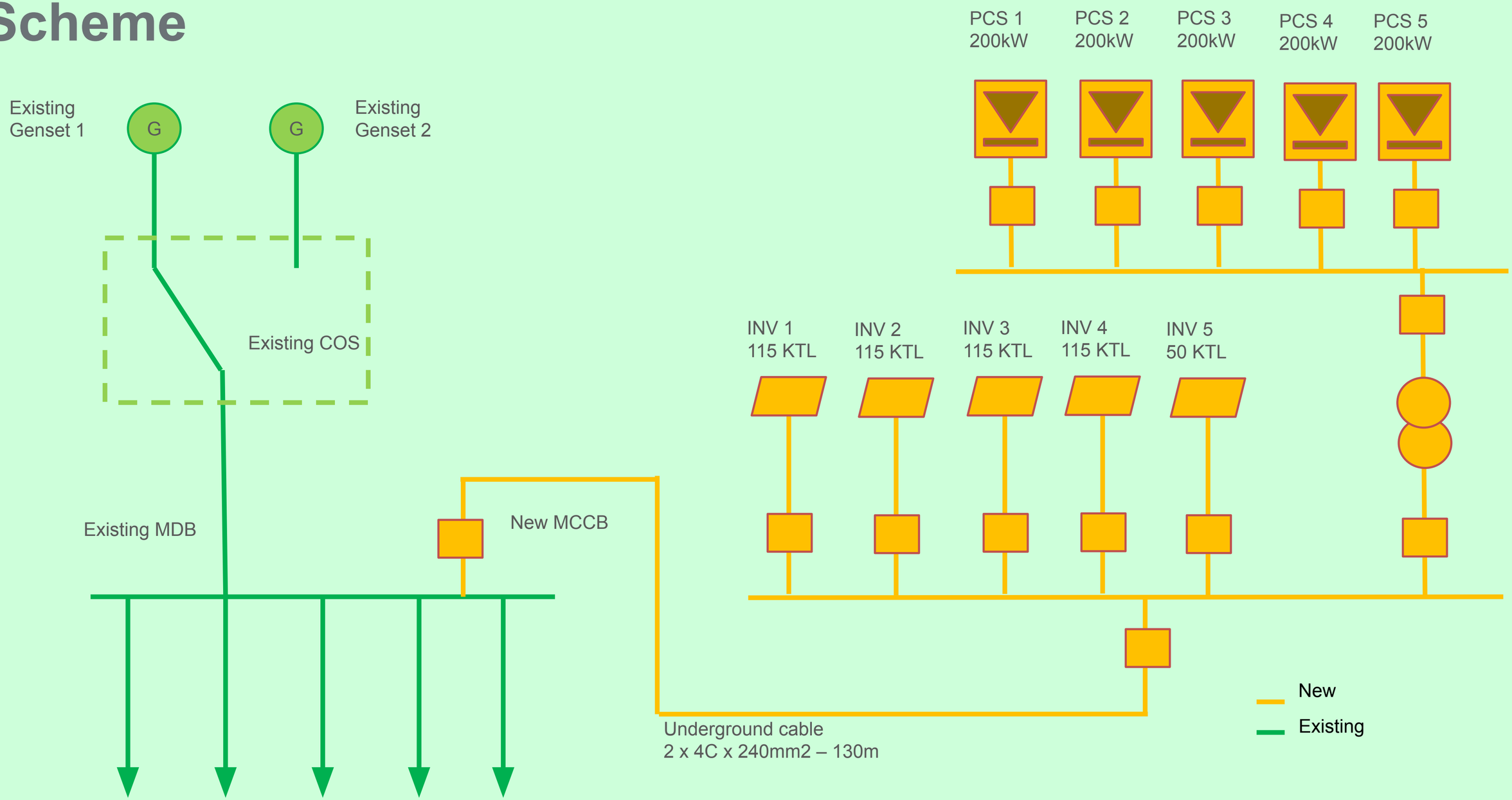
1. No blackout will occur while switching.
2. Offers automatic switching everyday.
3. No-need manpower standby.
4. Client is more satisfied because no manual operation is needed anymore.

Cons

1. More expensive price for equipment.

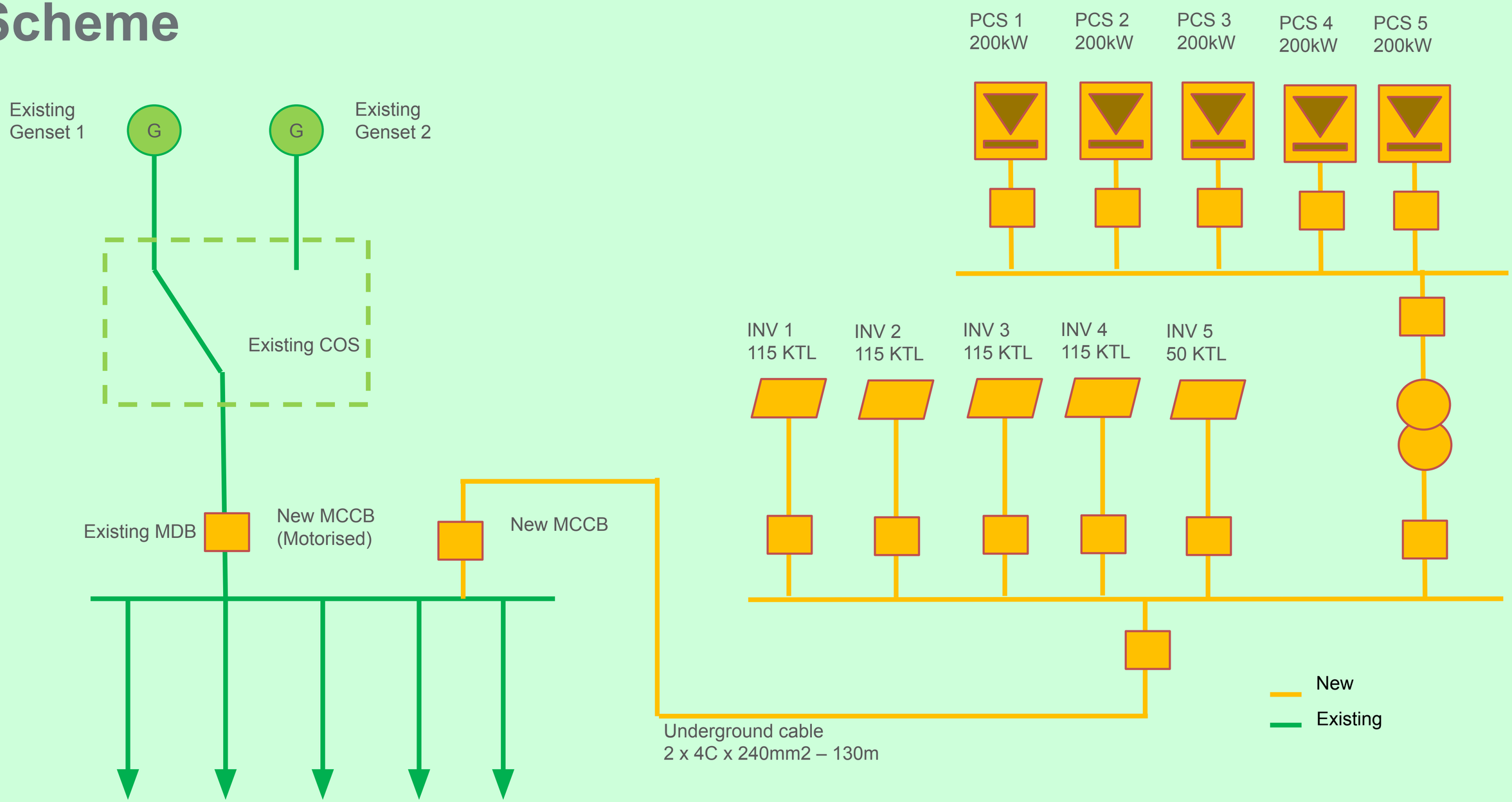
Fully Manual Operation

Scheme

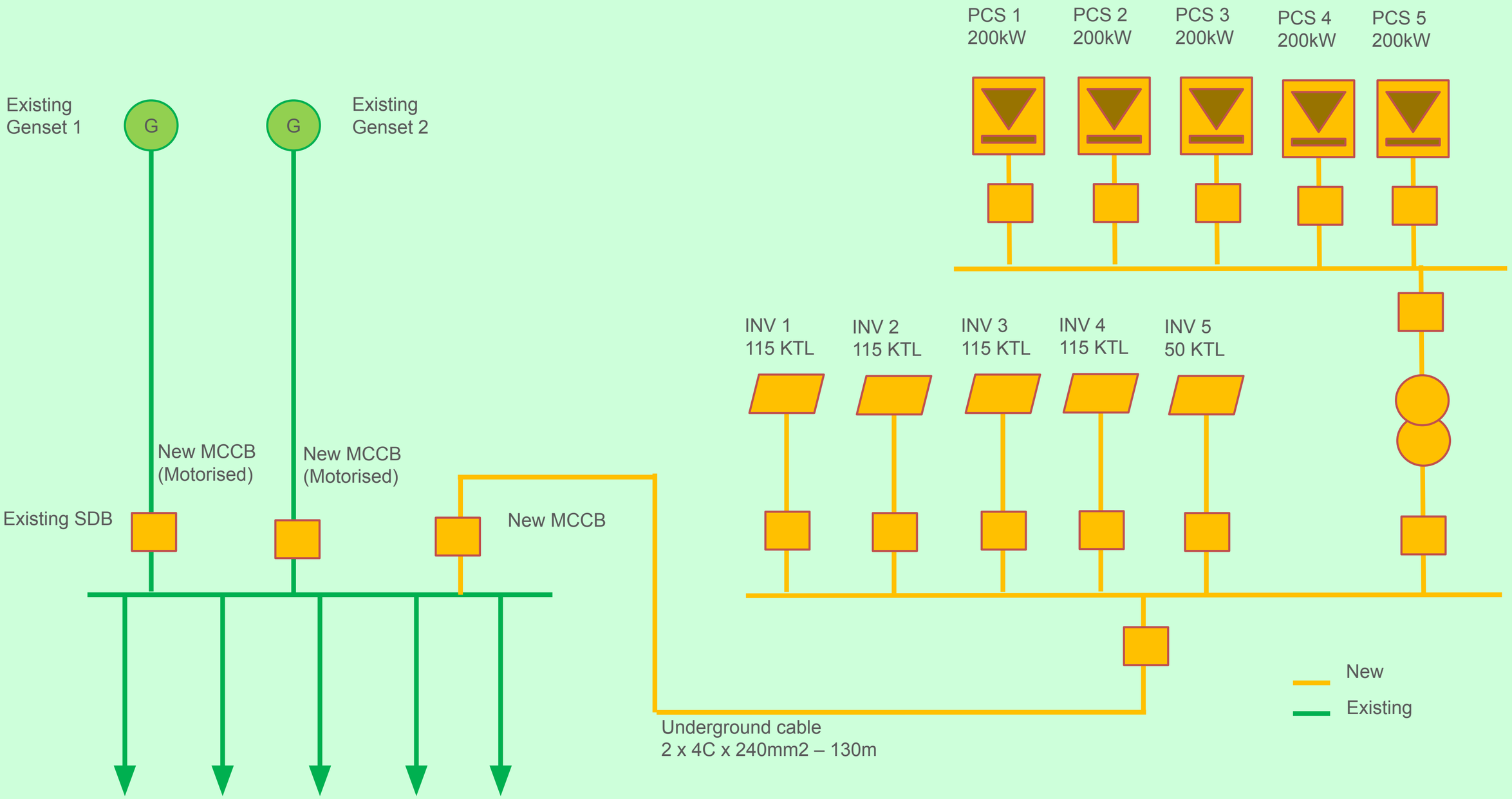


Partially Automatic Operation

Scheme

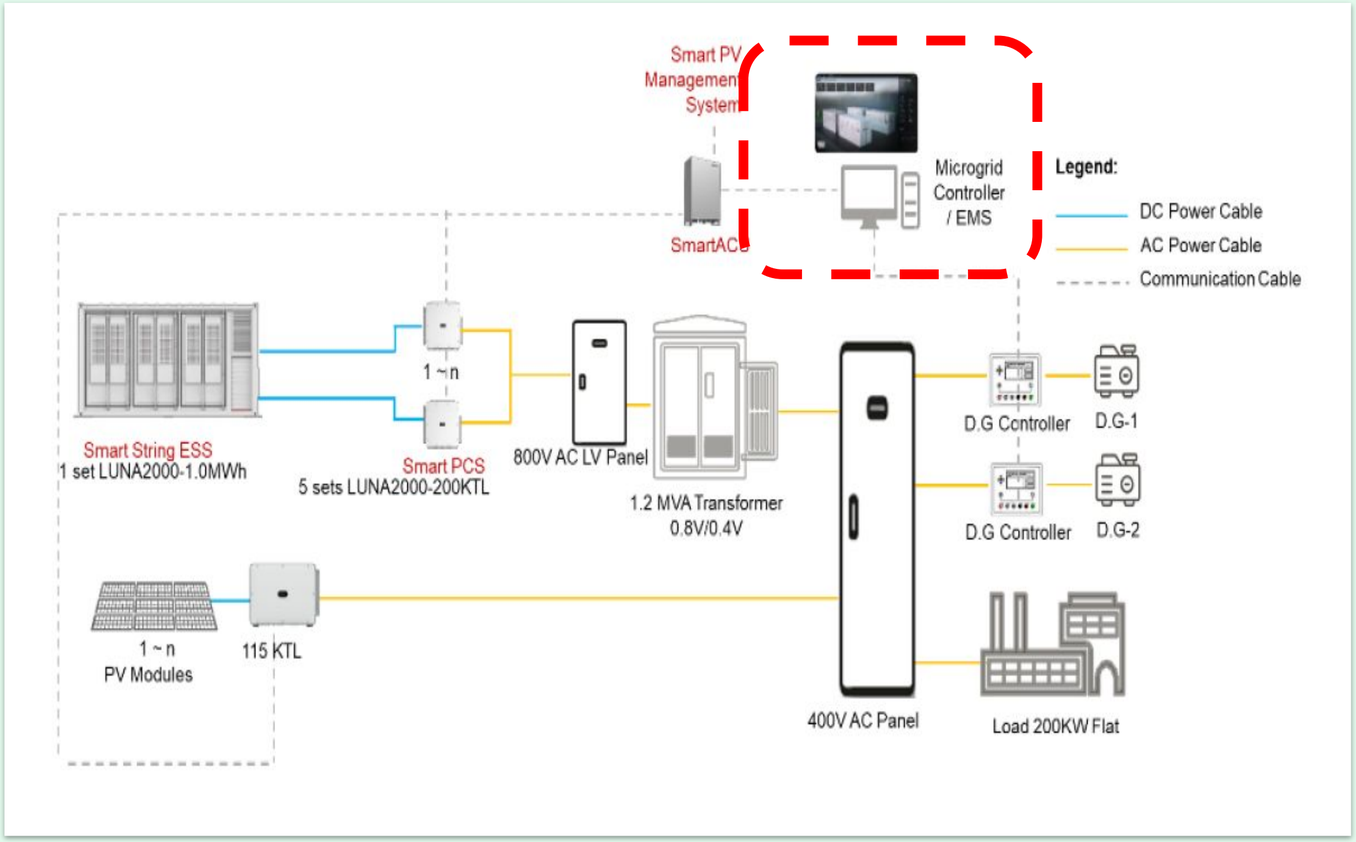


Fully Automatic Operation Scheme

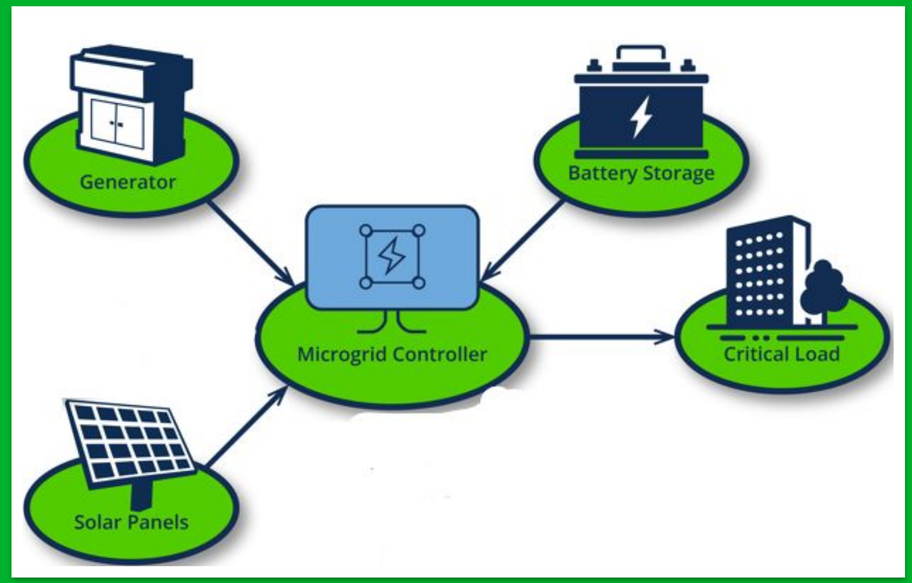


BESS Architecture &

EMS (Brain of Micro-Grid System)



EMS/Microgrid Controller Functions



- Ensuring system stability by balancing load and generation.
- Automatic grid operation; When to charge/discharge BESS, and when to turn on/off Gensets.
- Doing seamless transition of Power Source (BESS to Genset, & vice versa). So, customer won't experience unwanted blackouts.
- System monitoring and control function. Etc.

Shaping Future Energy

Leading Commercial & Industrial Solar Energy Developer

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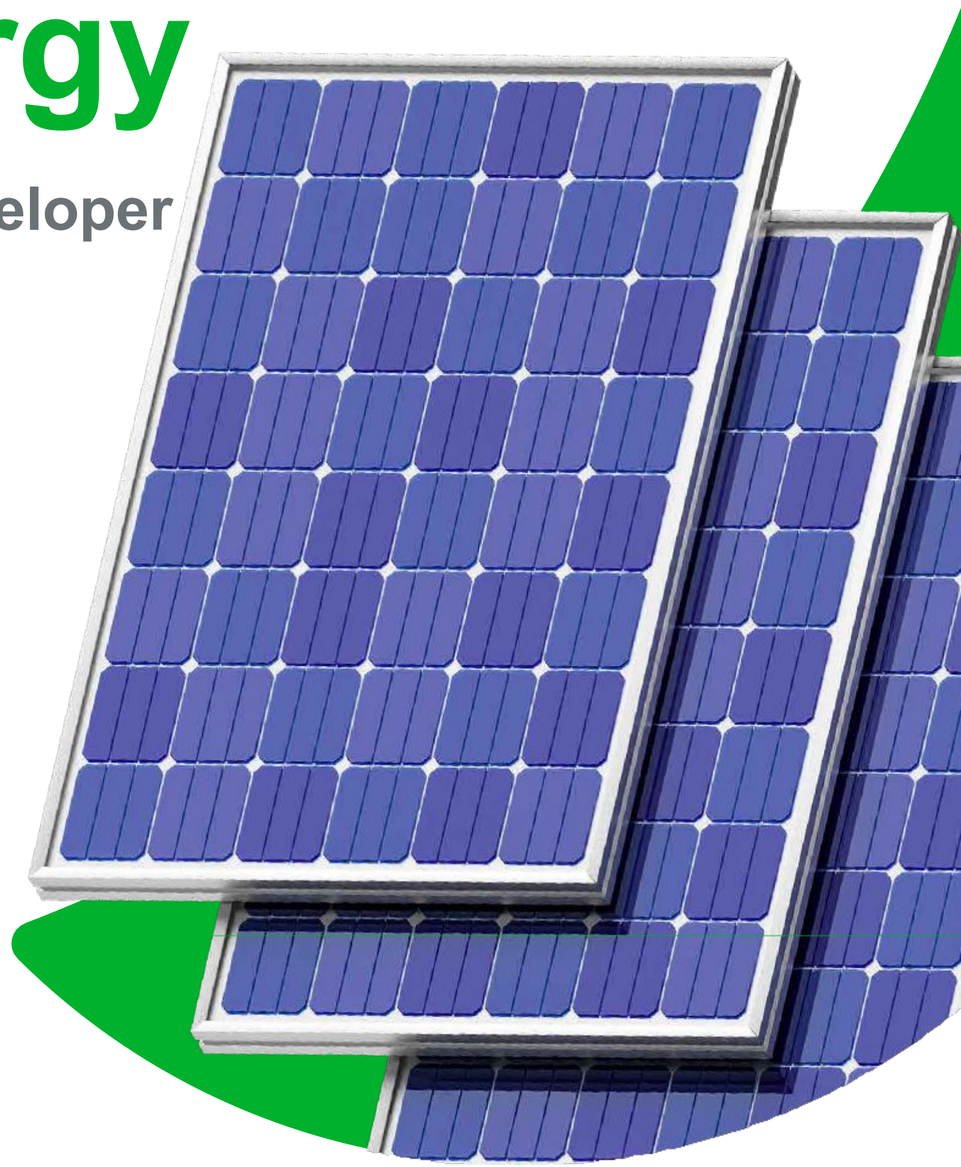

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Catch us on social media:

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