



# Go Green: Switch on the Power of Solar

ENGIE's approach to a more sustainable  
future with solar energy



ENGIE

## Understanding the importance of green energy for your business

Did you know solar energy systems can generate more than 20 times of the energy power the world needs? Sun, an unlimited source of energy, can provide competitive energy with high potential.

This has fueled Southeast Asia's energy demand boom – which is expected to double by 2040.

The region is striving to meet this surge in demand by expanding its share of renewable sources, so that it can provide reliable and affordable carbon-free electricity, while battling climate change.

## Southeast Asia's journey towards solar energy<sup>2</sup>



### SINGAPORE

Solar energy is currently its most viable form of renewable energy

**350MW**

solar capacity deployed, meeting 2020 target

Target:

**2030**

2GWp of solar capacity



### MALAYSIA

The government introduced a

**500MW**

net energy metering scheme to boost solar and renewable power generation in the commercial and industrial sector

Target:

**2025**

6% to 20% increase in electricity generation via renewable energy



### PHILIPPINES

Highest electricity cost in ASEAN

Rooftop solar panels deliver low-cost energy compared to coal-fired power plants

Target:

**2030**

15.2GW of renewable energy



### THAILAND

The first ASEAN state to institute the equivalent of a feed-in tariff

Most solar power capacity installed in ASEAN

Target:

**2036**

30% renewable energy in total energy consumption

1 - International Energy Agency

2 - All numbers and figures as of December 2019

# Switch on the power of solar energy with ENGIE



Enjoy long-term, sustainable rewards while our turn-key solutions do all the work.



## ZERO UPFRONT COSTS

Pay only for the power you use with zero CAPEX. ENGIE handles everything else, from financing, installation to operations.



## MORE COST SAVINGS

Enjoy competitive, fixed pricing on your electricity. ENGIE provides a medium to long-term hedge with price certainty, regardless of fluctuations in electricity prices.



## HANDS-FREE RELIABILITY

Get best-in class operations and maintenance of your solar installations. Our technical specialists have a high commitment on output and will manage the whole process end-to-end.



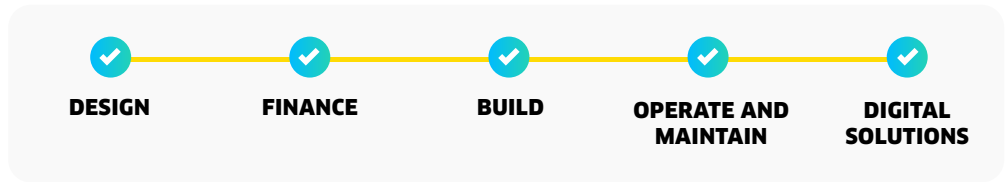
## LOWER CARBON FOOTPRINT

Be confident your carbon emissions will be reduced, and join the global network of sustainability and green commitment.

## Why businesses and governments choose ENGIE

We provide businesses with a sustainable way to meet their electricity needs. At a fixed rate, they can enjoy hassle-free, reliable certified green power with ENGIE's Green Corporate Power Purchasing Agreements (PPAs).

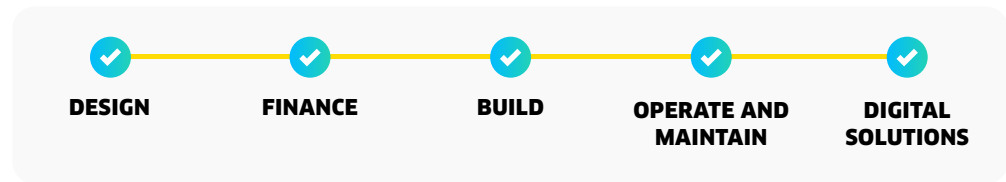
# Flexible services to address your solar needs



## Onsite Solar-as-a-Service

We provide you with hands-free, certified green power supply. From the comfort of your own site, you simply need to pay for what you use to enjoy immediate cost savings.

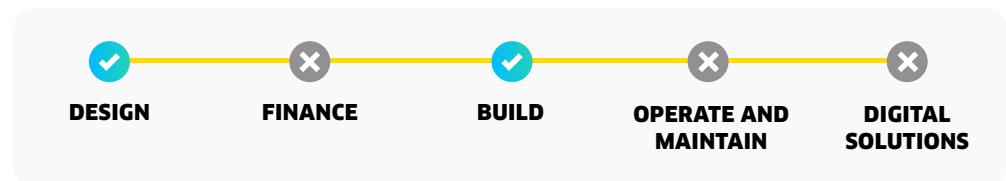
- Zero CAPEX and OPEX
- Long term service agreement for peace of mind
- Guaranteed energy output



## Offsite Solar-as-a-Service

We set up the financial structure for you to purchase offsite green energy and map your energy demand through a Renewable Energy Certificate.

- Go 100% green with one contract to cover all your sites across Southeast Asia
- Long term service agreement for peace of mind
- Certify and report carbon footprint via digital platform



## Design and Build

We will work closely together to provide best-in-class design and engineering, while you opt in for services to operate and maintain the solar installation.

- One-time installation fee
- Free electricity from day 1
- Get the option to engage our operations and maintenance services



## Customized Solar Energy Solution

We provide tailored solutions that are customized to fit your electricity needs and suit your business objectives.

Contact our solar energy specialists to find out more: [solar.seasg@engie.com](mailto:solar.seasg@engie.com)

# Digital enhancements for your solar energy solutions

## Darwin: ENGIE's renewable energy management system

Darwin, our unified digital solution, uses intelligent cloud technologies to host, analyze and render real-time data from your assets and third-party data – achieving operational excellence. To date, we have installed Darwin on more than 15,000MW of assets worldwide.



### OPERATE

24/7 real-time monitoring of renewable assets



### MANAGE

Unified reporting, easy-to-use dashboards, contract management



### ANALYZE

Real-time data and benchmark analysis with AI, enabling predictive maintenance



### EVALUATE

Easy access to data insights, improving operational performance

## The Energy Origin: ENGIE's green energy transparency blockchain

Our web platform, The Energy Origin or TEO, allows customers to know in real-time where their green energy comes from. Specifically designed for Offsite Solar-as-a-Service, TEO provides full transparency and tighter security. Our software is built on low energy blockchain technology, transforming your green certificates into secure digital assets.



### SECURE TRACKING

Records kWh generated and consumed in real time with highly secured sensors onsite

### FULL TRANSPARENCY AND MONITORING

Calculates energy between renewable asset and consumption site to show emission impact

### EASY ACCESS

Provides easy access to tamper-proof certificates and data on consumption and production

## More about ENGIE

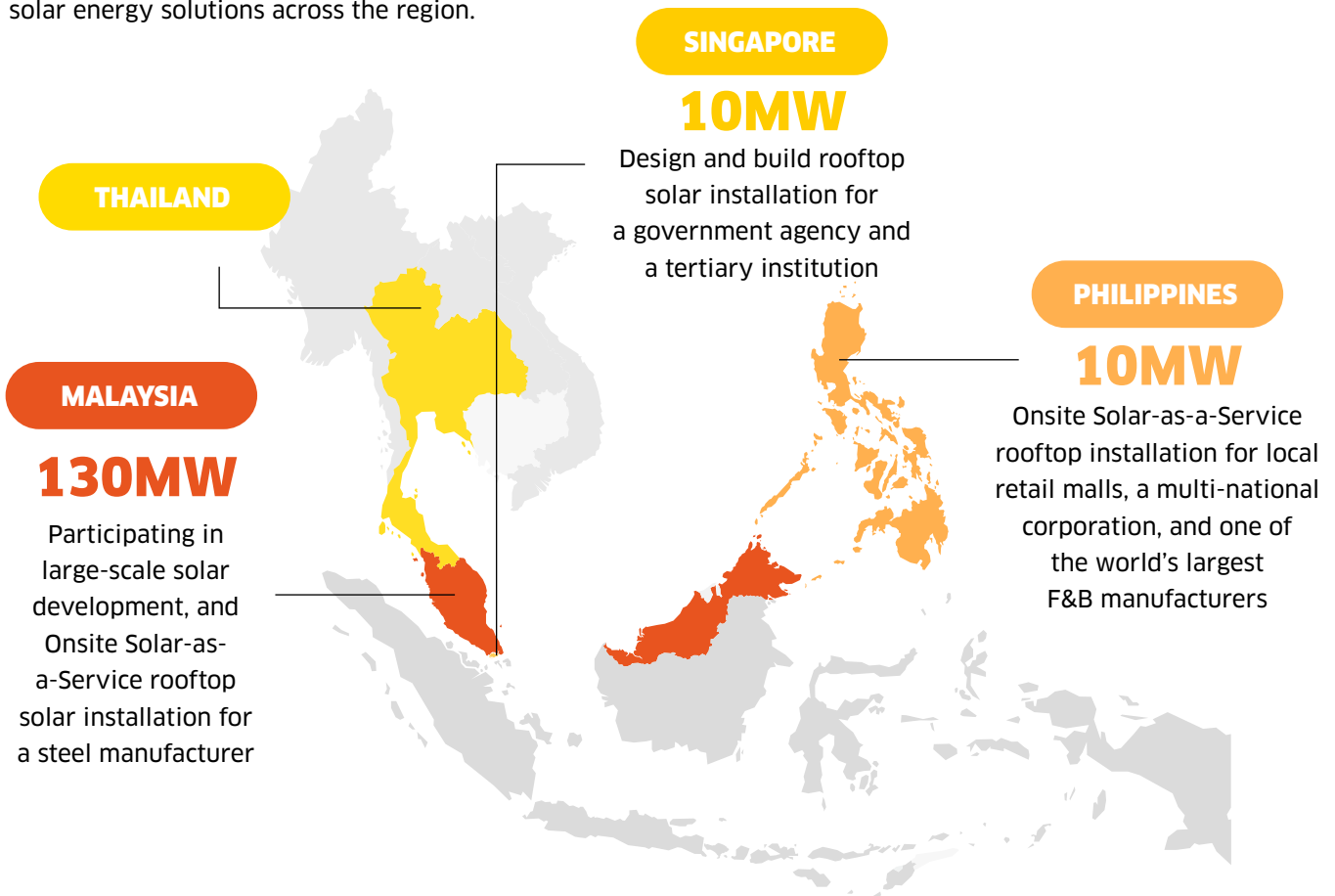
ENGIE group is a global reference in low-carbon energy and services. Our purpose is to act to accelerate the transition towards a carbon-neutral world, through reduced energy consumption and more environmentally-friendly solutions, reconciling economic performance with a positive impact on people and the planet. We rely on our key businesses (gas, renewable energy, services) to offer competitive solutions to our customers.

At ENGIE Southeast Asia (SEA), a cluster under ENGIE Asia-Pacific, we are a fast-growing team of over 2,000 employees with presence in Singapore, Malaysia, Thailand and the Philippines to provide tailor-made integrated solutions for our customers in commercial buildings, industries, and cities.

## Our green energy footprint in Southeast Asia

We are committed to providing clean, affordable electricity - which is why we invest heavily in developing and deploying solar energy solutions across the region.

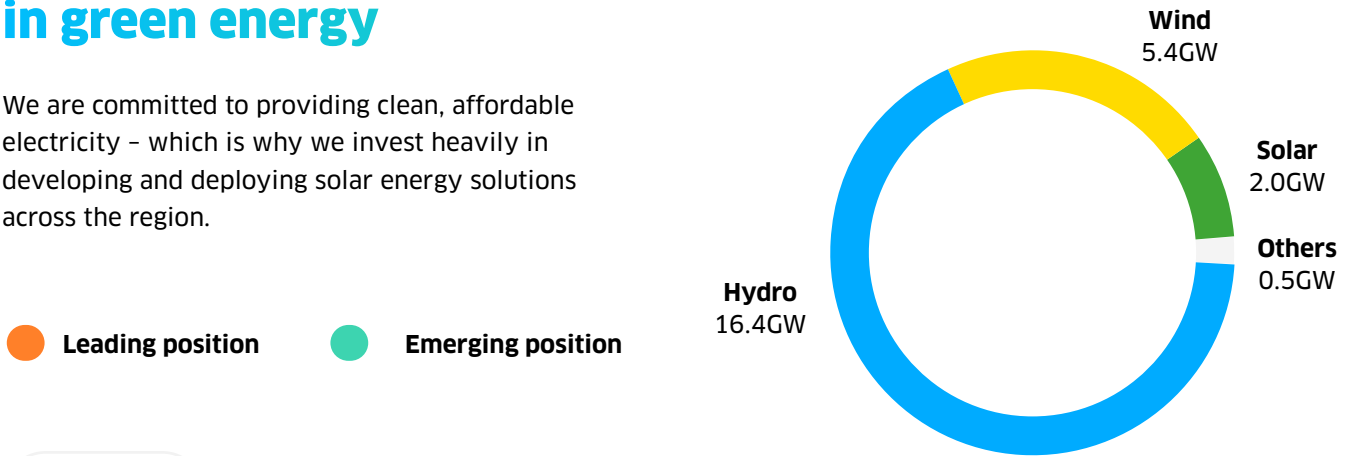
**100+MW**  
Solar PV solutions  
in operation and  
under construction  
across SEA



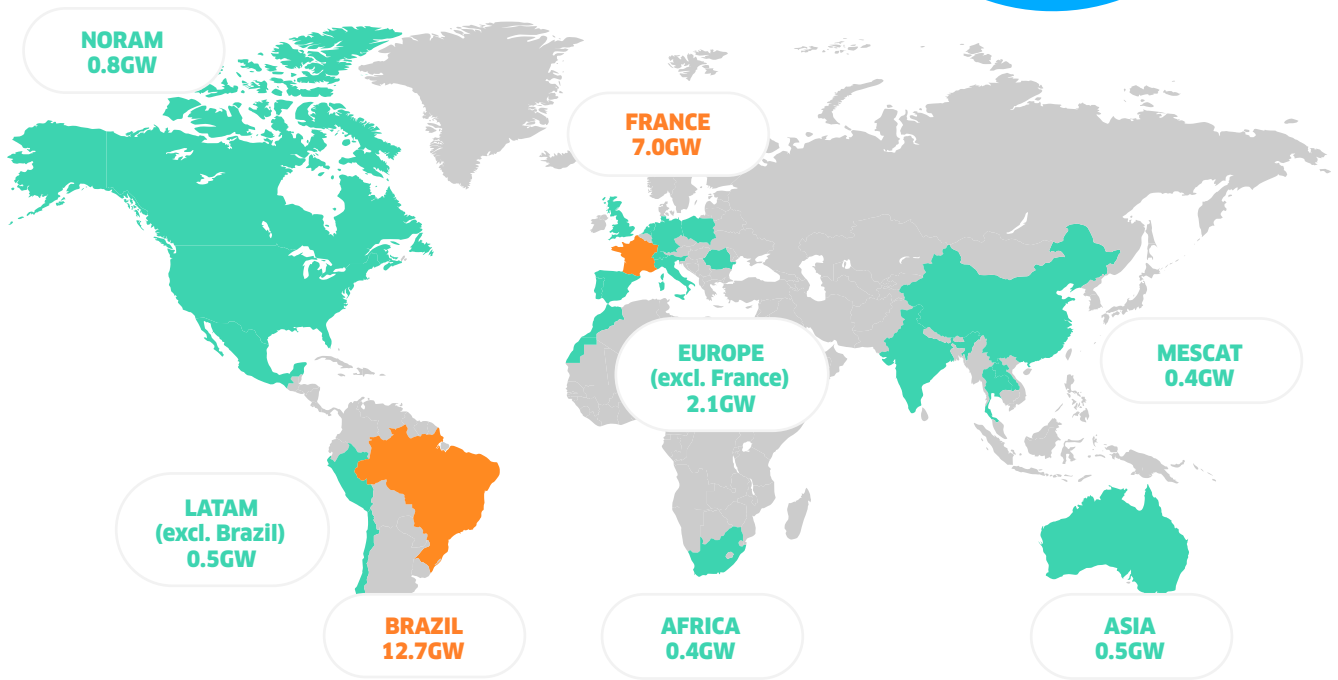
# Our worldwide footprint in green energy

We are committed to providing clean, affordable electricity – which is why we invest heavily in developing and deploying solar energy solutions across the region.

Capacities: 24.4GW @ 100%



● Leading position    ● Emerging position



~500MW under Corporate PPA

Biomethane installation

Pilot projects on Hydrogen

## Want to know how much cost-savings you can enjoy by switching to green energy?

Take our free solar assessment at <https://www.engie-sea.com/solar-solutions>

Or if you're ready to switch, get in touch at [solar.seasg@engie.com](mailto:solar.seasg@engie.com)

## You can also find us at:

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