



# ***How Do Renewable Energy Certificates (RECs) Work?***



***Reduce Your Scope 2 Carbon Emissions***



***Reach Your Renewable Energy Goals!***



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# The Energy Problem

Electricity is produced from both green & grey sources.  
When it is fed into the grid & distributed, each electron is indistinguishable.

## Fossil Energy

(Grey Energy)

- ▀ Fossil    ▀ Oil
- ▀ Gas     ▀ Coal



$e^-$

$e^-$

$e^-$

$e^-$

$e^-$

## Renewable Energy

(Green Energy)

- ▀ Solar    ▀ Hydropower
- ▀ Wind    ▀ Biomass



$e^-$

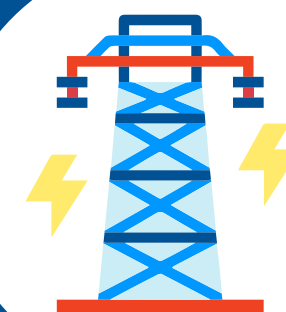
$e^-$

$e^-$

$e^-$

$e^-$

Central Grid



$e^-$

$e^-$

$e^-$

$e^-$

$e^-$

$e^-$

?

?



There is no way for electricity consumers  
to track 'green' or 'grey' electrons  
through the central grid.

# Clean Your Energy Source with REC

Renewable Energy

+

Certificate

=

RECs



This Redemption Statement has been produced for

[Your company name]

by

GMS SOLAR COMPANY LIMITED

confirming the Redemption of

[Volume of REC in MWh]

I-REC Certificates, representing [volume] MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

[Your address of REC consumption]

in respect of the reporting period

[Consumption period]

The stated Redemption Purpose is

Scope 2 Reporting



While electron source cannot be backtracked, your company can purchase a REC (Renewable Energy Certificate) to track the green attributes of renewable energy.

Fossil Energy



e<sup>-</sup>

e<sup>-</sup>

e<sup>-</sup>

e<sup>-</sup>

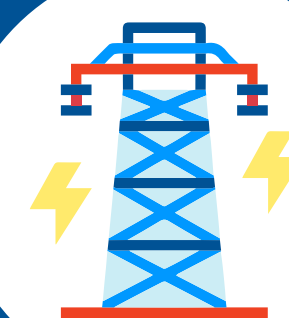
e<sup>-</sup>

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Central Grid



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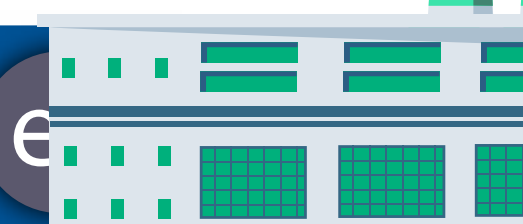
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Factory A



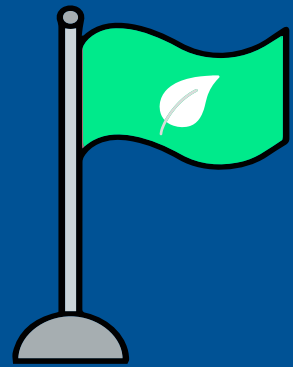
Factory B

Renewable Energy





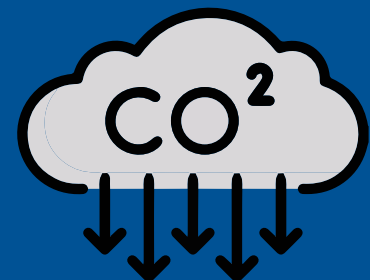
# **The Benefits from REC**



**Accredited by International REC Standard, acknowledged by Greenhouse Gas Protocol, SBT, ISO and RE100**



**Official legal instrument, sold by authorized REC broker.**

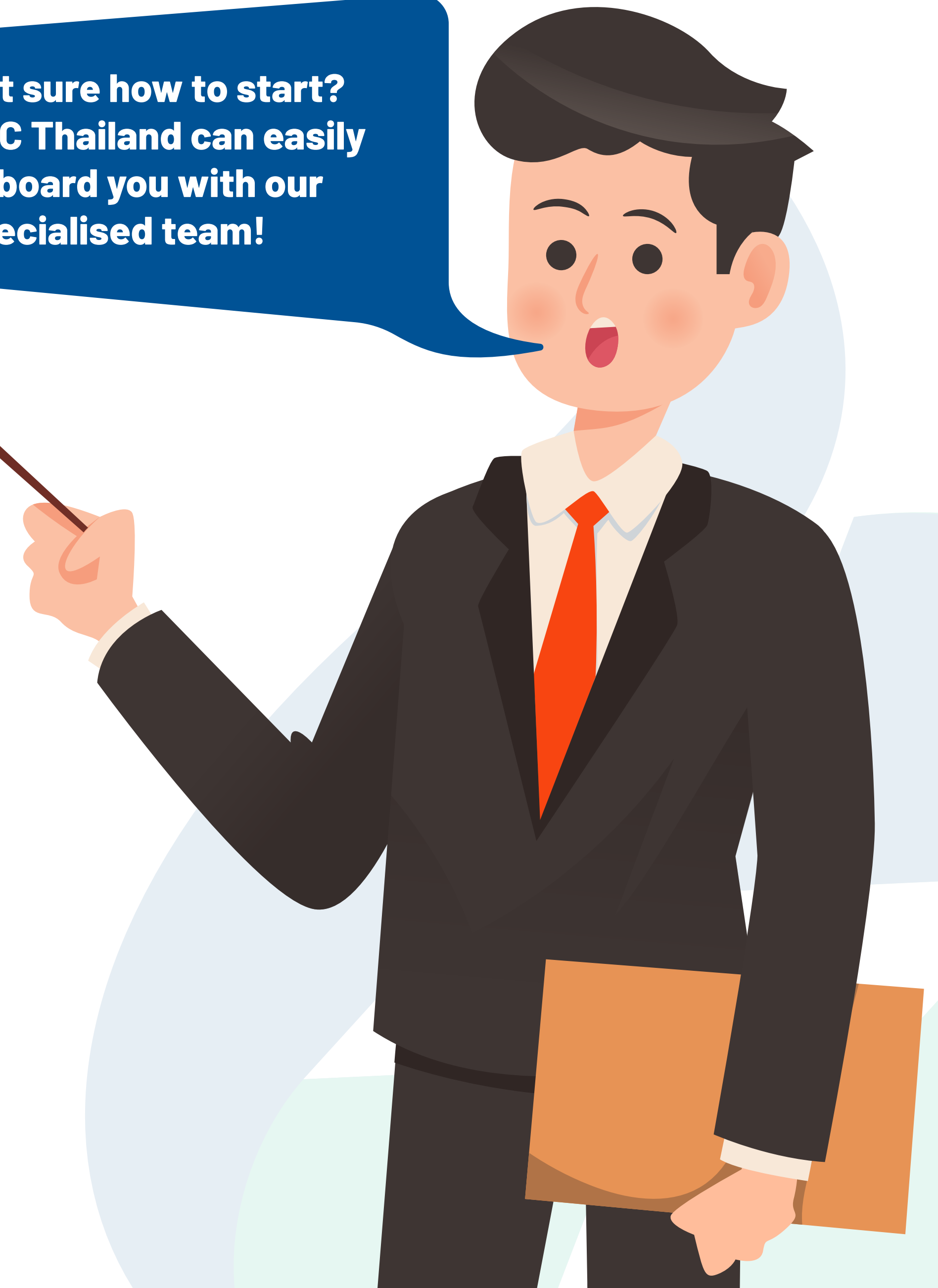


**Reduces your greenhouse gas emissions from electricity.**

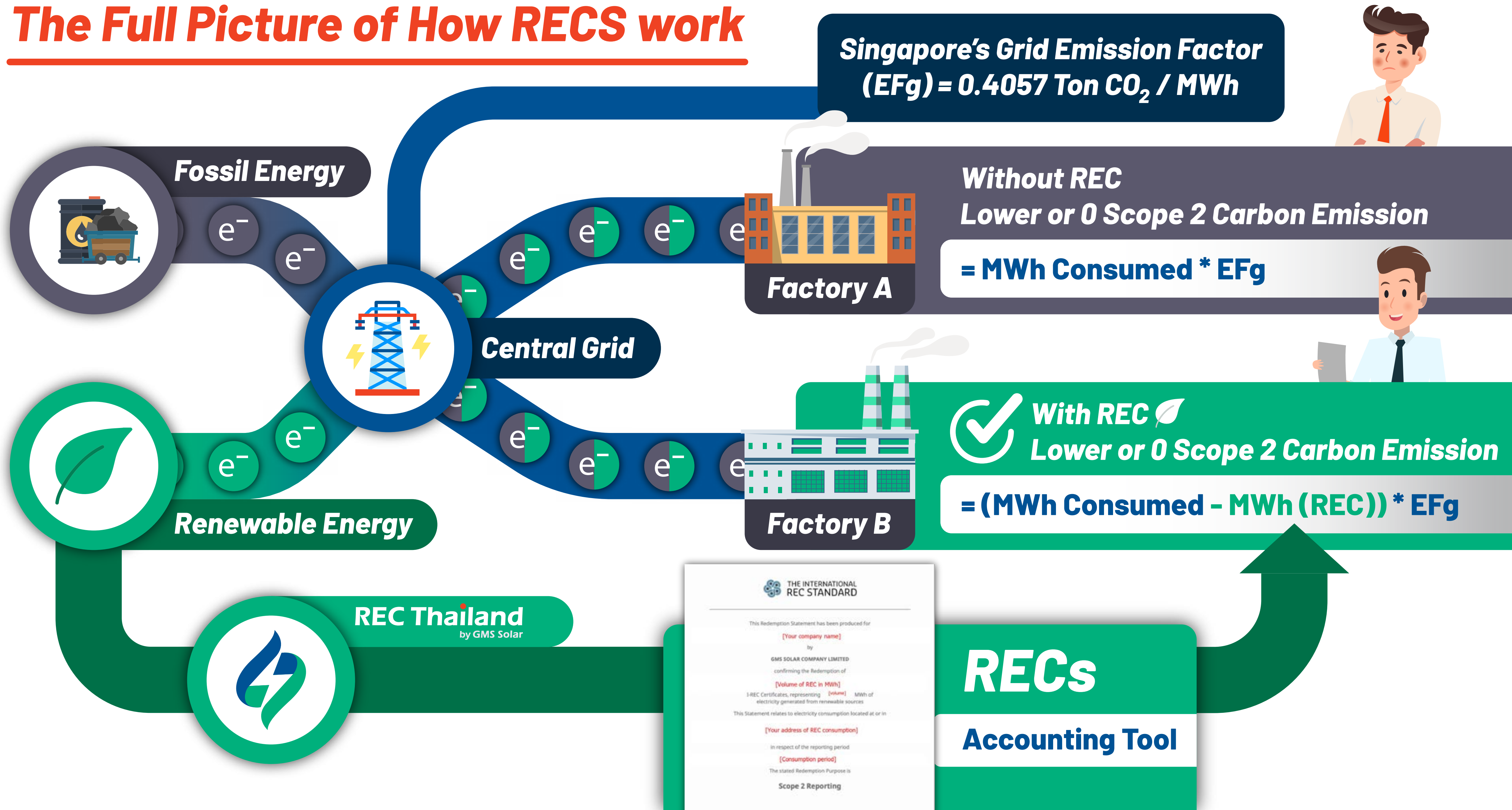


**No additional equipment or installation required**

**Not sure how to start?  
REC Thailand can easily  
onboard you with our  
specialised team!**



# The Full Picture of How RECS work



# A Very Simple Summary on RECs

Renewable electricity generation produces 2 distinct market commodities:

e<sup>-</sup>

Electricity

physical asset sold through grid

1

For 100% renewable energy,  
purchase REC equivalent to  
MWH consumed.



2

RECs

intangible assets sold through certificates



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Scope 2 Reporting



# **So How Do I Claim the REC?**

**REC allows your company to make claim about your electricity usage, and reduction in greenhouse gas emissions from electricity. This can be in your:**

**ESG  
Report**

**Sustainability  
Report**

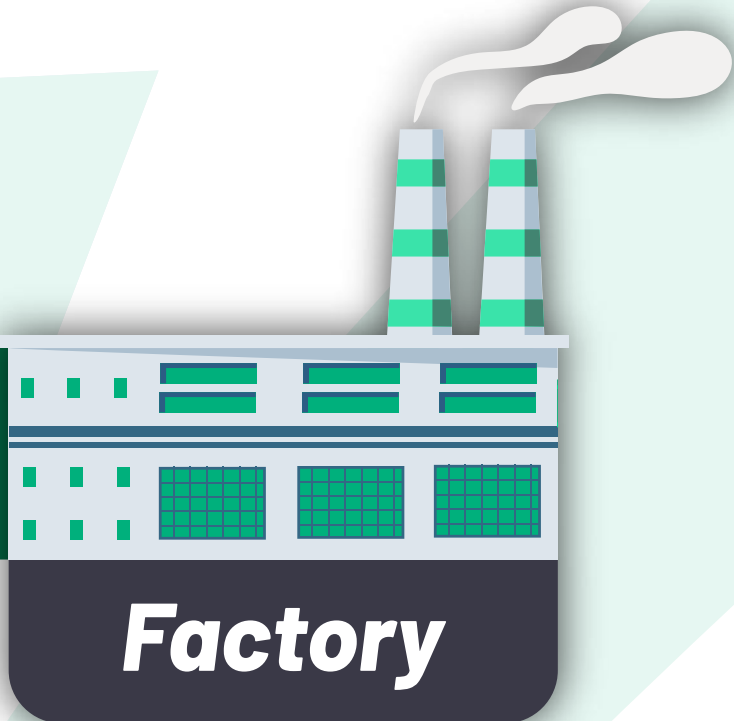
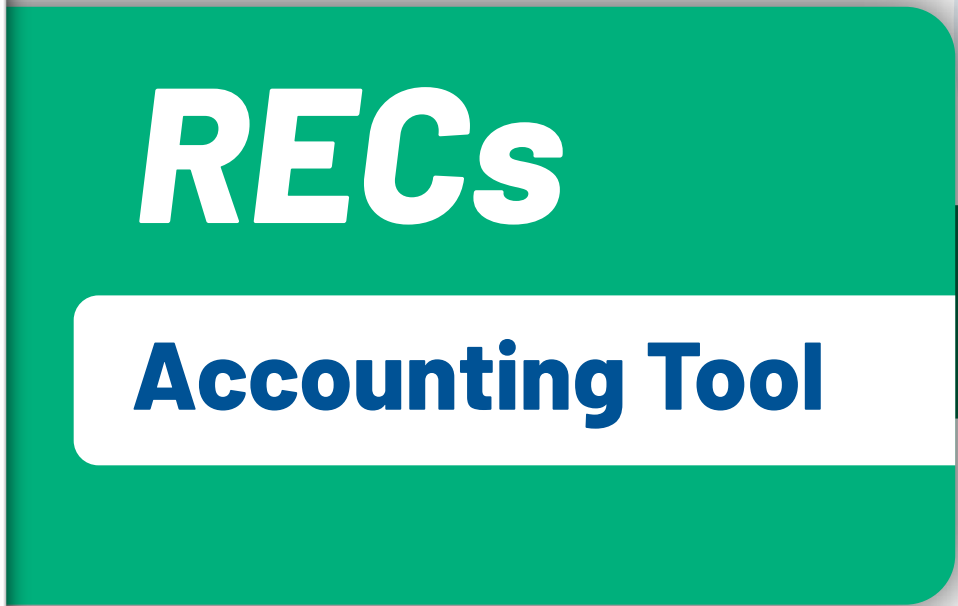
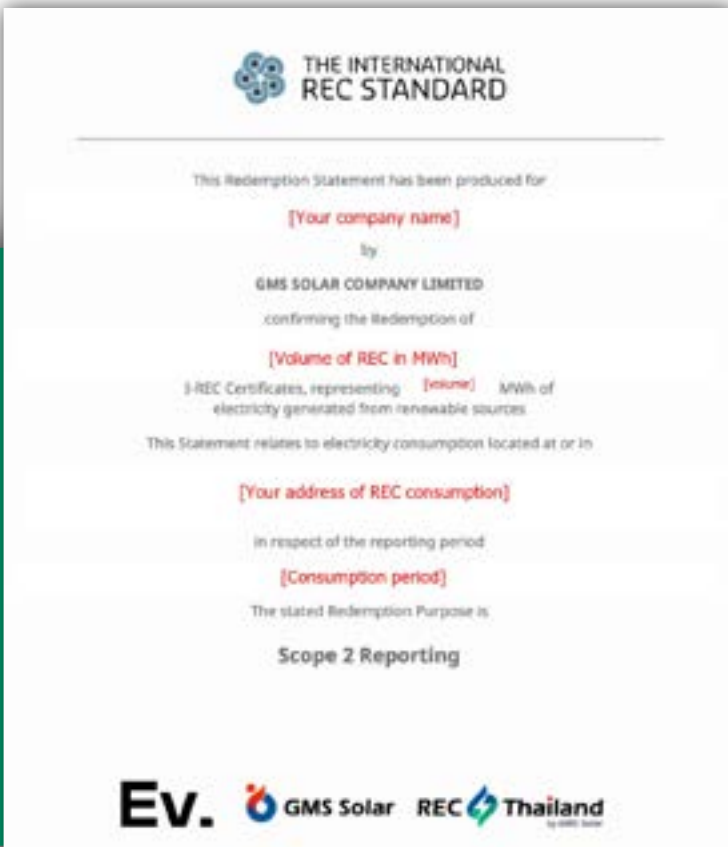
**Publication &  
Press**

**Sales  
Material**



**Guide to  
Sustainability Reporting  
for Listed Companies**

# Sample claims of Using REC



## Example of Claims



Our data center  
is powered by

**100%**  
Solar Power



Our products  
are made with

**80%**  
Wind Energy



Our global  
electricity  
usage causes

**0** Scope 2  
Emission



# **Which Technology is Best For My Company?**

## **Solar & Wind**



For companies who are aligned with RE100 or aim to meet the highest benchmark

GMS advise exploring due to thier endorsement by RE100

Relatively higher cost

## **Biomass & Hydropower**



For companies seeking REC but aren't presently following RE100 guidelines














GMS recommends exploring due to sustainability benefits that are cost-effective

Relatively lower cost



# What are Our Available RECs?

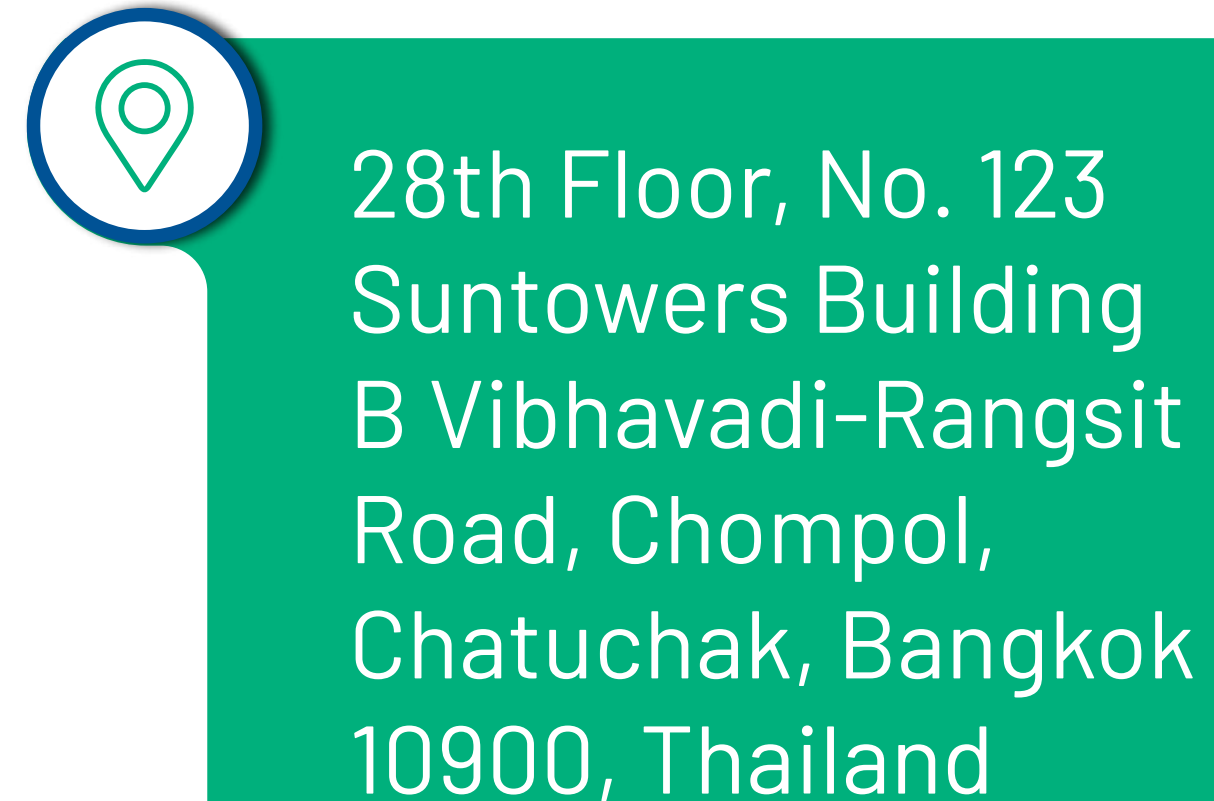
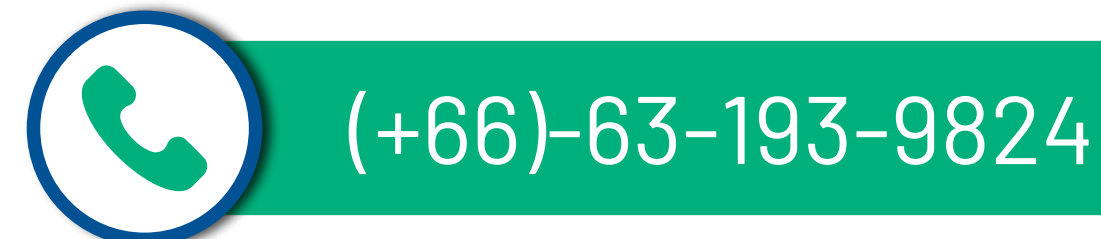


Technology	Location	Vintage
 Solar	Thailand	2022
 Solar	Thailand	2023
 Solar	Thailand	2024
 Wind	Thailand	2023
 Hydropower	Thailand	2022
 Hydropower	Thailand	2023
 Hydropower	Thailand	2024
 Biomass / Waste to Energy	Thailand	2022
 Biomass / Waste to Energy	Thailand	2023
 Biomass / Waste to Energy	Thailand	2024
 Solar	Vietnam	2021
 Solar	Vietnam	2022
 Solar	Vietnam	2023

## For Inquiries, Reach Out to Us:



REC Thailand, a service brand under GMS Solar, is a trusted broker, trader, and aggregator of Renewable Energy Certificates (RECs) in Thailand.



**Somkiat  
Chaisrirattanakul**  
Managing Director



**Karnsiree  
Chaisrirattanakul**  
Business Development  
Director



THE INTERNATIONAL  
REC STANDARD

**Authorized  
I-REC  
in Thailand**

**Professional &  
Dependable  
Service**

**Realtime Industry  
Expert Consulting**