

# RENEWABLE ENERGY 101



**Gabby Easthouse**  
Manager, International  
Certification Programs  
Center for Resource Solutions



**Hannah Broman**  
RE100 Senior Policy Manager  
The Climate Group

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**Renewable Energy  
Markets™ Asia 2025**

# RENEWABLE ENERGY 101

An introduction to EACs,  
procurement methods,  
and impacts in the market

**Gabby Easthouse**

Center for Resource Solutions  
Manager, International Certification

**Hannah Broman**

Climate Group  
RE100 Senior Policy Manager

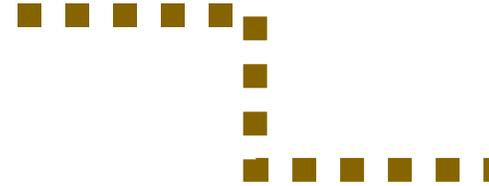
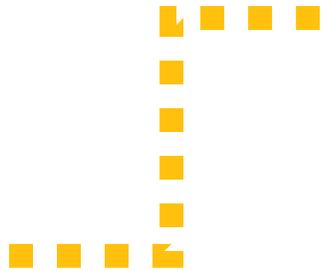
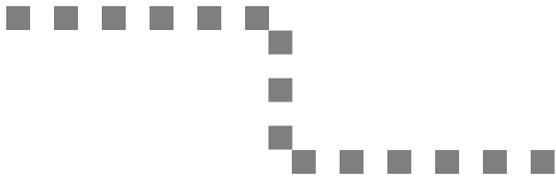
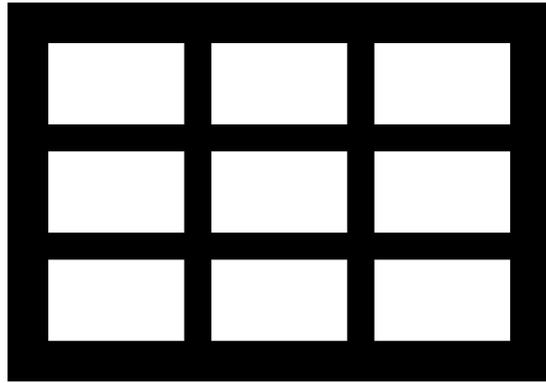
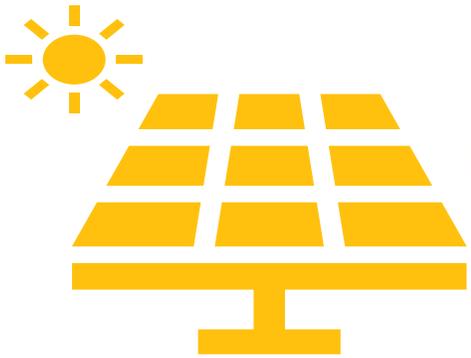
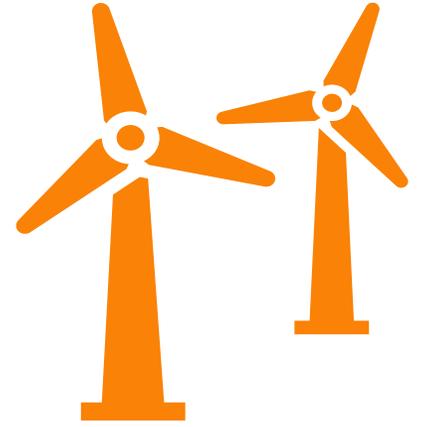
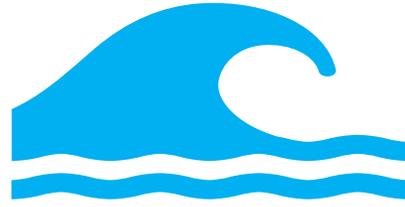
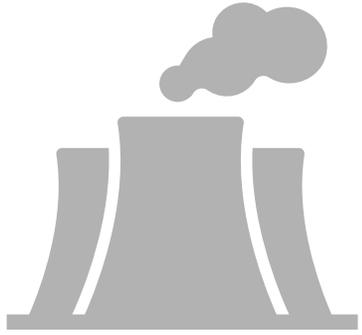




# Renewable Resource Types

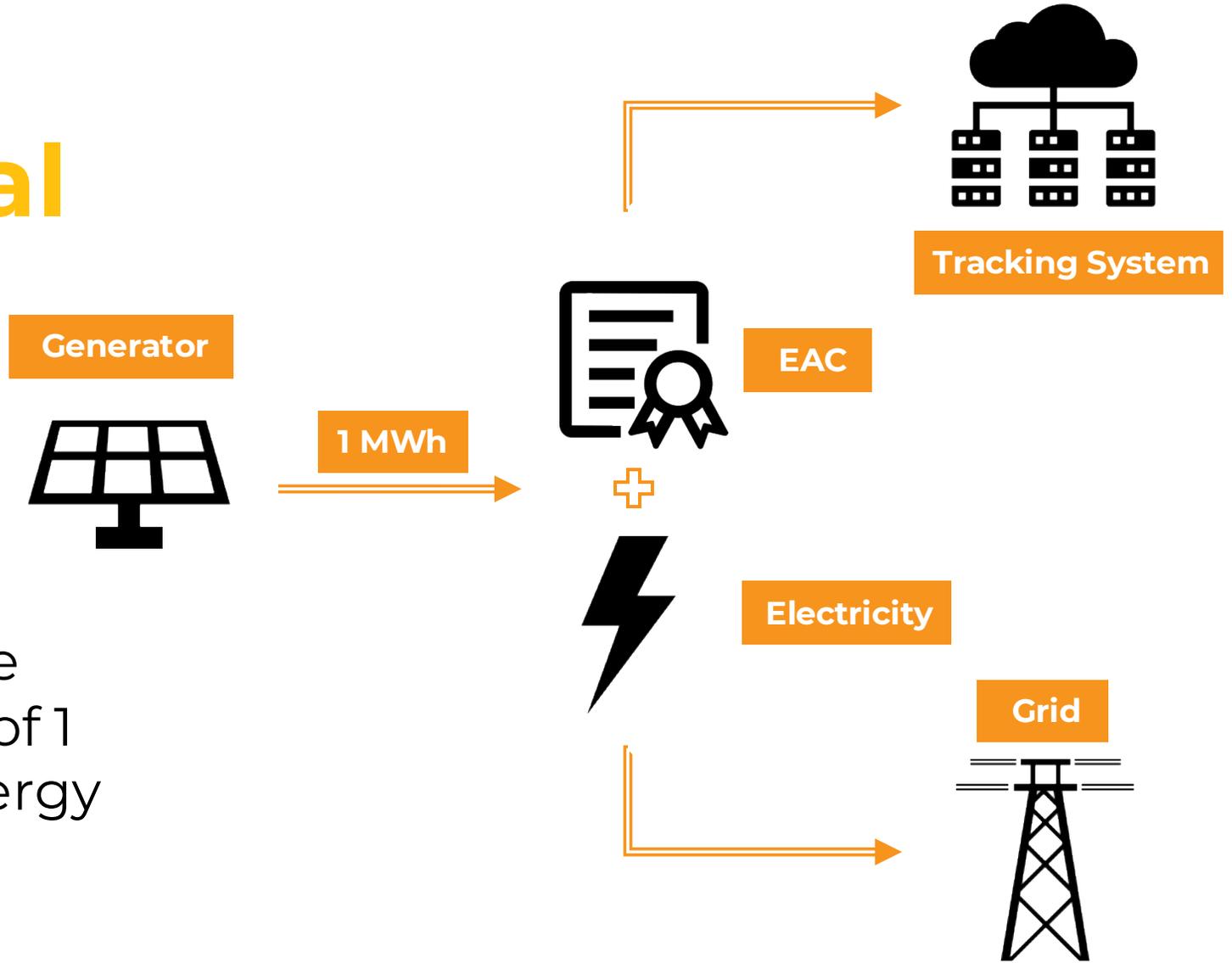
- Solar
- Wind
- Geothermal
- Biomass
- Hydroelectric
- Tidal

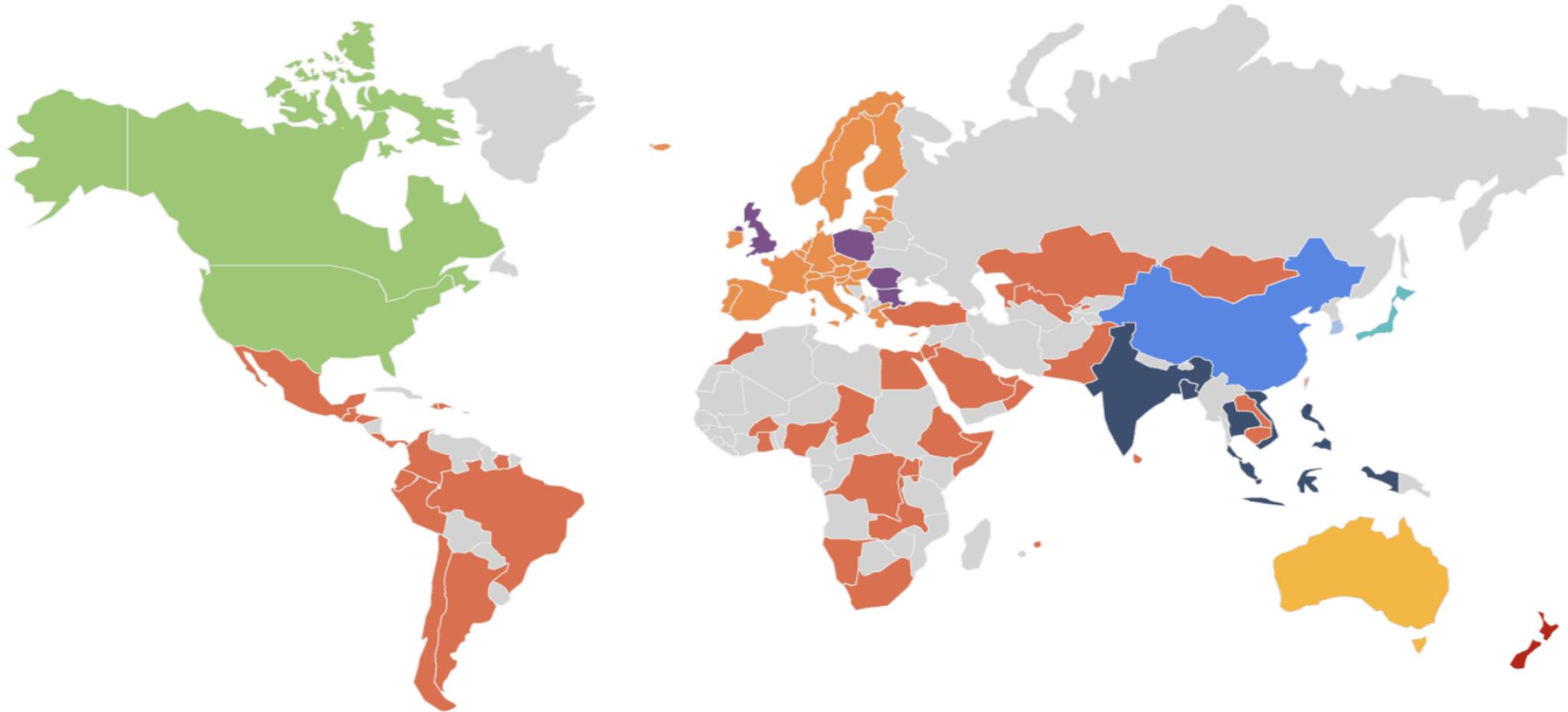




# Environmental Attribute Certificates (EACs)

1 EAC represents the renewable attributes of 1 MWh of renewable energy generation



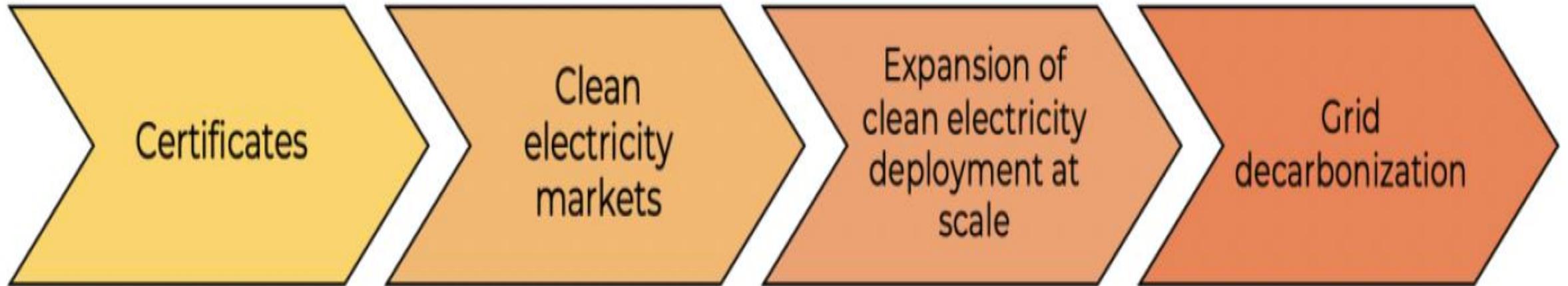


- **RECs** (Renewable Energy Certificates)
- **I-REC** (I-REC standard certificate)
- **AIB GO** (AIB Guarantee of Origin)
- **Non-AIB GO or REGO** (Non-AIB Guarantee of Origin or Renewable Energy Guarantee of Origin)
- **NZECS** (New Zealand Energy Certificate System)

- **I-REC & LGCs** (Large-scale Generation Certificates)
- **TIGRs & I-REC**
- **T-RECs & TIGRs & I-REC**
- **J-Credit & I-REC & NFCs** (Non-Fossil Value Certificates)
- **TIGRS & GECs** (Green Electricity Certificates)
- **TIGRS & Korea RE100 Certificates (REC)**

# EACs Purpose & Values

1. Provide proof and verification of renewable generation on a shared grid
1. Contractual legal claim to generation
2. Hold associated environmental attribute
  - a) Avoided GHG emissions
  - b) Social and environmental impacts
3. Avoid double counting and low grid additionality
4. Create a national market for renewable energy



# Procurement and Product Types

## Bundled

Utility Green Tariff  
Utility Green Pricing  
Power Purchase Agreements  
(PPA)  
On-site  
3rd party



VS

## Unbundled

Electricity Service Provider  
3<sup>rd</sup> party  
Virtual PPA  
Broker



# EACs VS Carbon Offsets



a global emissions reduction beyond a baseline level of emissions from a project activity



Instrument that represents reduced / removed GHG emissions in **CO<sub>2</sub>e**



Contribute to Scope /footprint

**CLIMATE GROUP**  
**RE100**

# Impactful procurement

30 April 2025, Singapore  
Hannah Broman, RE100 Senior Policy Manager

Visit [RE100.org](https://www.re100.org) follow [@theRE100](https://twitter.com/theRE100) on Twitter



# The mission

## Vision

Accelerate change towards zero carbon electricity grids globally

## How?

Mobilise corporations to influence policy makers and address policy and market barriers, enabling corporate buyers to source renewable electricity at reasonable cost



# Why corporates act

- Business case
- Cost competitiveness of renewables
- Energy security
- Climate risk
- Reputational risk
- Leadership
- Credibility

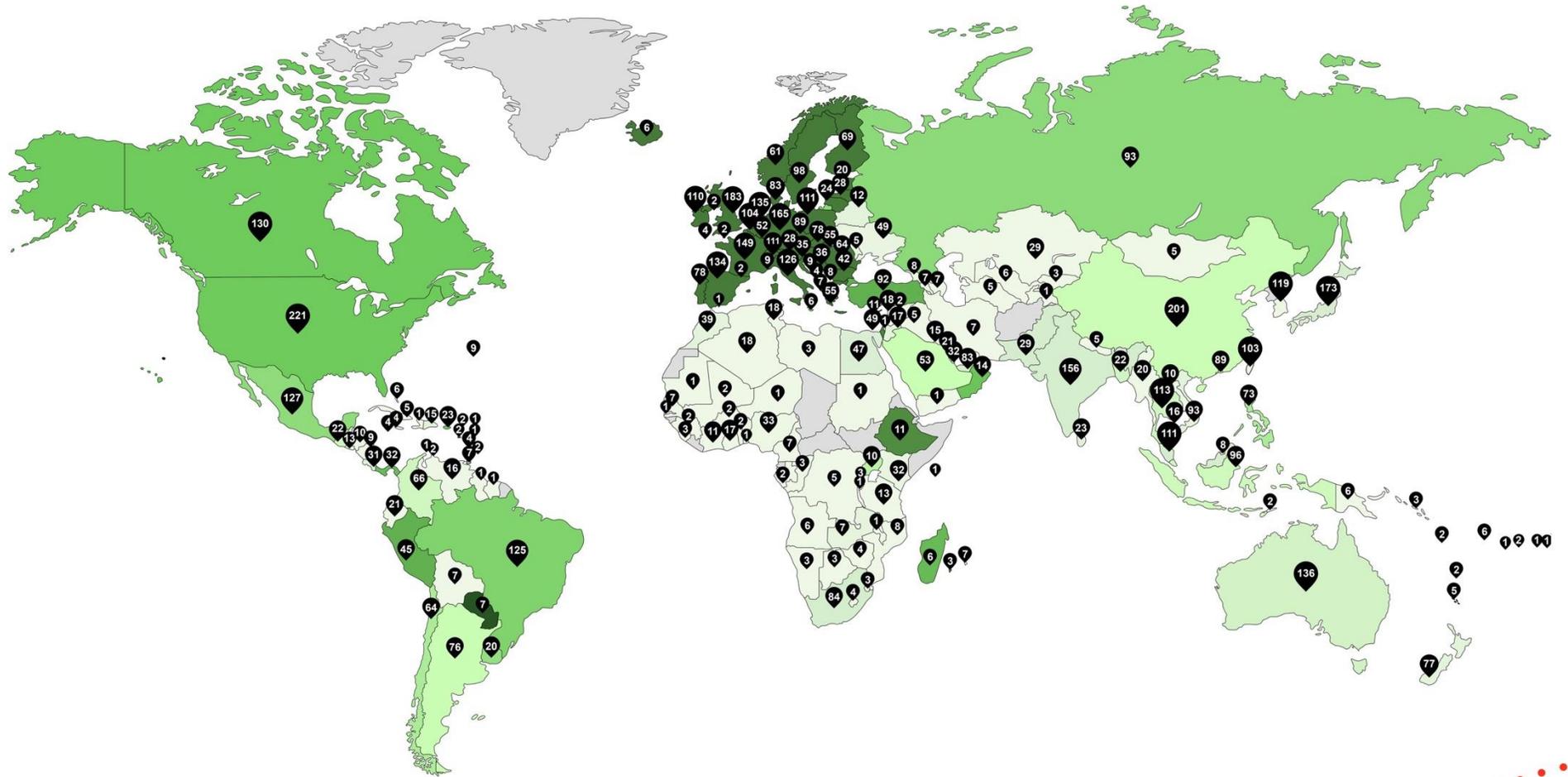


# Global footprint of RE100 members

# Number of members reporting operations

Share of renewable electricity

0% 100%



**430+**

companies  
committed to RE100

With an aggregated  
electricity demand of over

**570** TWh/year

**Two mutually reinforcing workstreams**

- Ambition and accountability
- Influential collective demand side voice

## RE100 Technical Criteria

### Market Boundaries

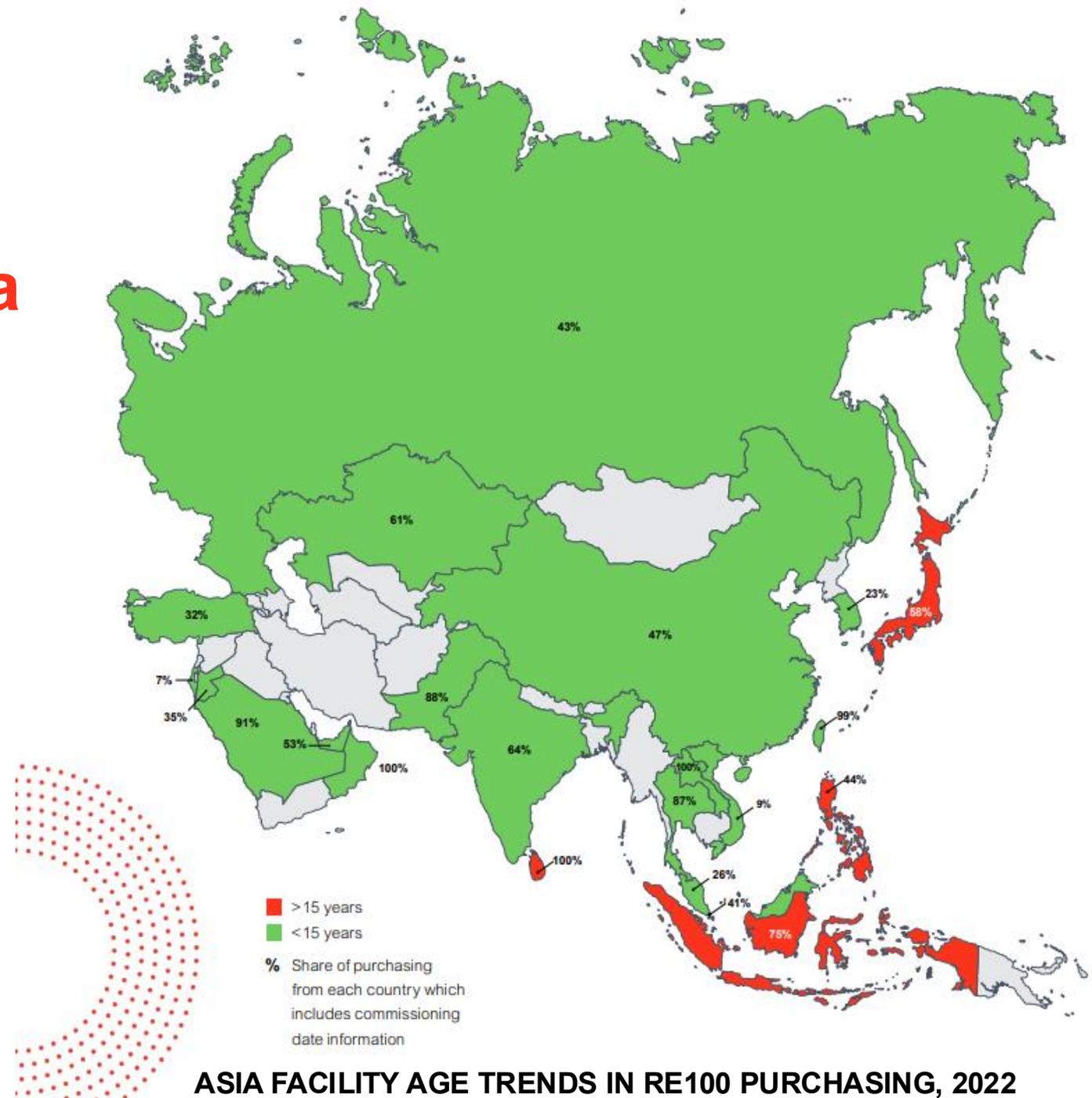
- Companies must procure renewables in the same market as where they consume

### 15-year commissioning date

- No more than 15% of a company's total procurement can be from renewables projects that are over 15 years

### No co-firing renewable fuels with coal

- No longer recognised since March 2025
- Co-firing may extend life of coal fired power plants
- Can result on worse lifetime emissions than coal alone
- Diverts investment away from renewables



ASIA FACILITY AGE TRENDS IN RE100 PURCHASING, 2022

# What do you need?

## RE100 Global Policy Priorities

Affordability

Ensure electricity sources compete fairly to reflect the cost competitiveness of renewable electricity and the true cost of fossil fuels.

Ambition

Set ambitious renewables targets in nationally determined contributions and national energy plans, supported by requisite public investment and infrastructure development.

**PPA**

Create an electricity market structure that supports private investment in new generation and allows for direct trade between corporate buyers of all sizes and renewable electricity suppliers.

**Green Tariffs**

Work with utilities or electricity suppliers to provide options for corporate renewable electricity sourcing

**Self-generation**

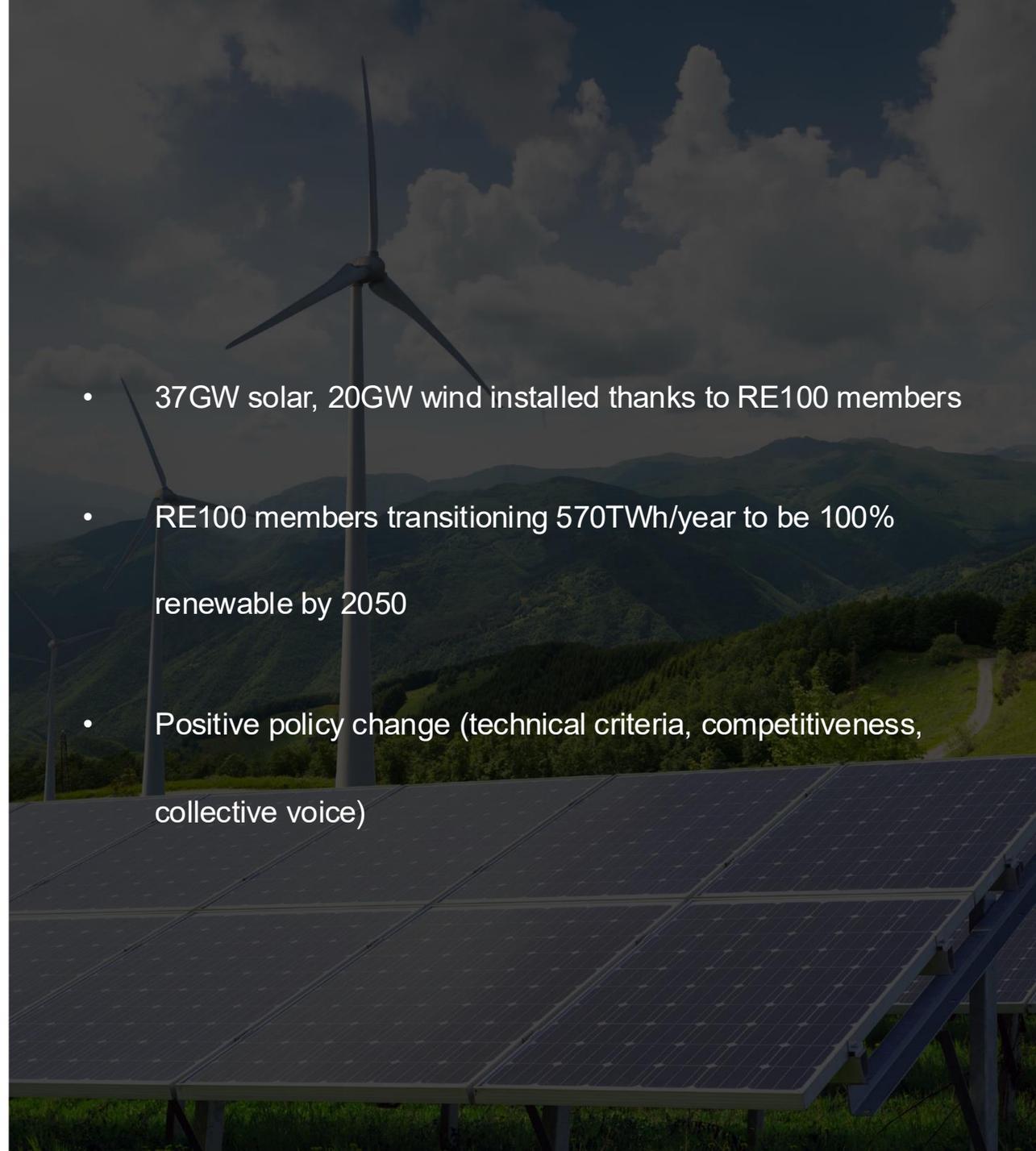
Promote direct private investments in on-site and off-site renewable electricity projects.

**Credible Claims**

Support a credible and transparent system for unique claims by issuing, tracking, and certifying electricity procurement via Energy Attribute Certificates.

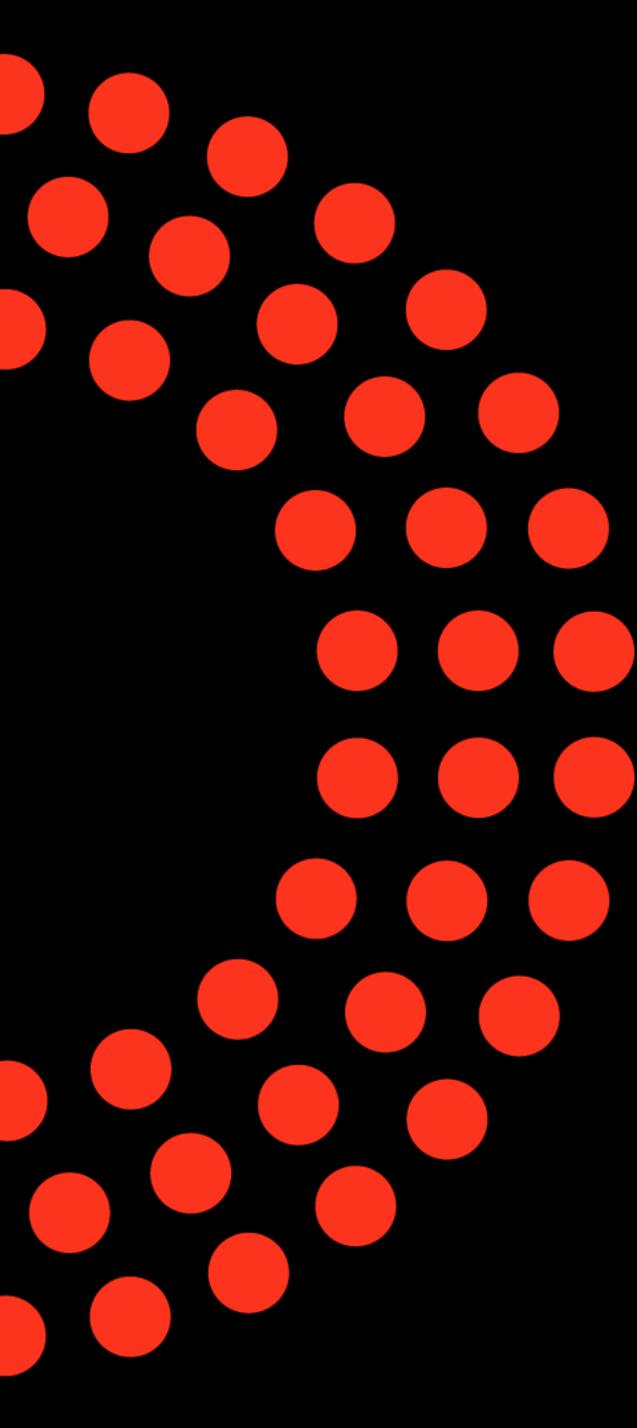
# Corporates make a difference

- 37GW solar, 20GW wind installed thanks to RE100 members
- RE100 members transitioning 570TWh/year to be 100% renewable by 2050
- Positive policy change (technical criteria, competitiveness, collective voice)



## In summary...

- Renewables make business sense
- Corporate procurement of renewables should be impactful
- Leading companies are helping their bottom line and the energy transition at the same time



# Thank you

Please get in touch with any questions you might have:

**Hannah Broman, RE100 Senior Policy Manager**

**[HBroman@climategroup.org](mailto:HBroman@climategroup.org)**

Visit **[RE100.org](https://RE100.org)**

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Q & A