



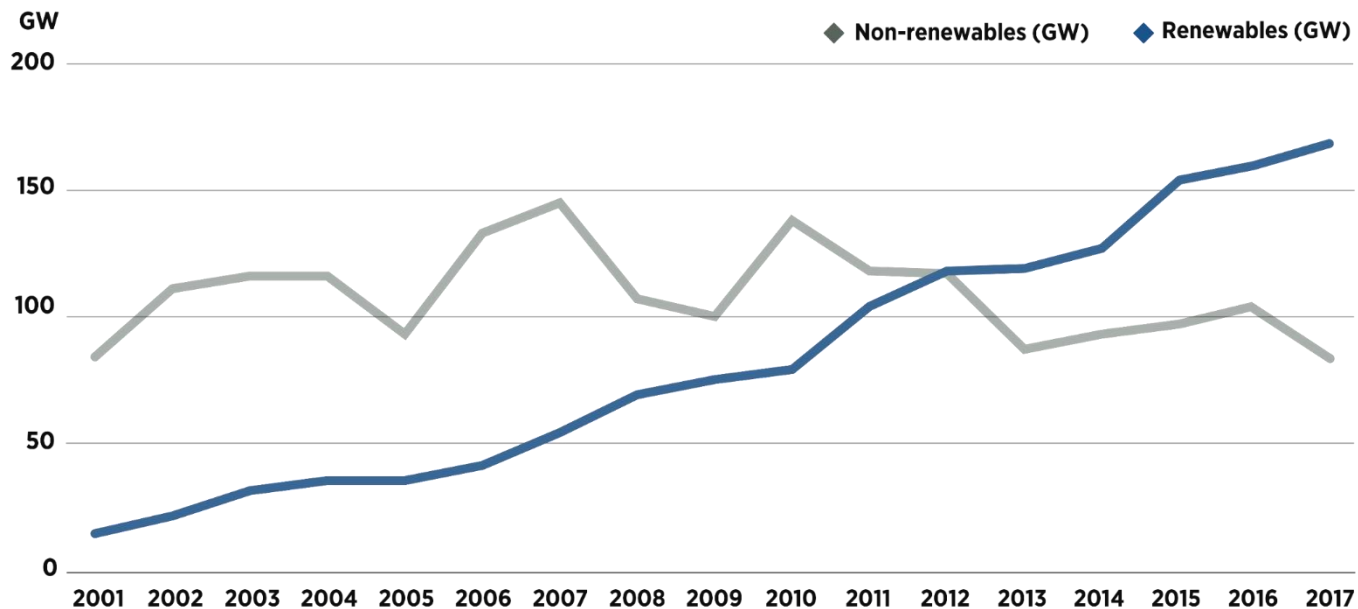
Global Renewable Energy Trends and the Role of IRENA

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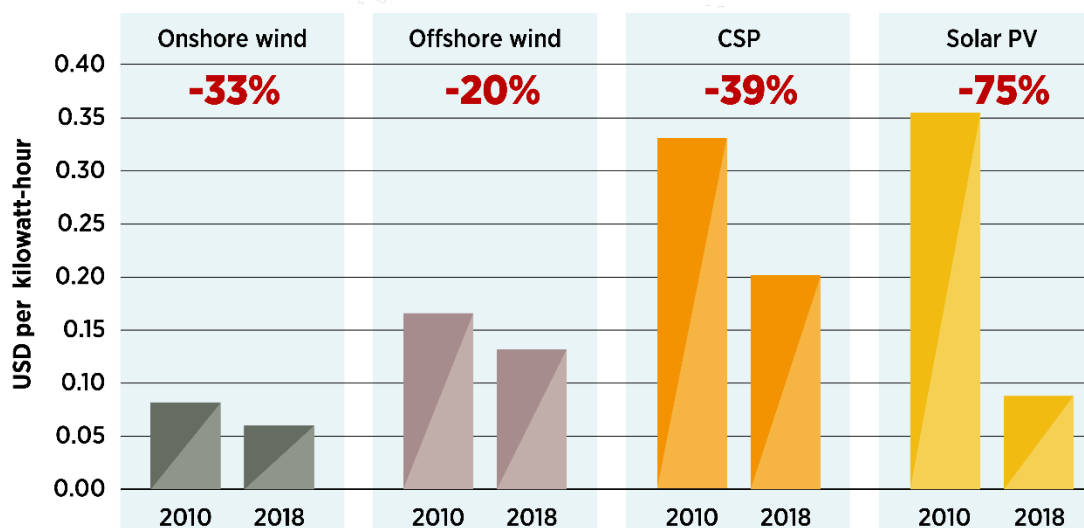
Key trends: RE Power Generation

- Nearly two-thirds of all new power generation capacity added in 2018 was from renewables (171 GW)
- Wind and solar PV accounted for 84% of new power capacity in 2018
- Economies are increasingly RE-powered: 33% of generation in the UK & 40% in Germany and Spain in 2018
- Expanding electricity use is a key driver for energy transformation: EV sales surpassed 2 M units in 2018



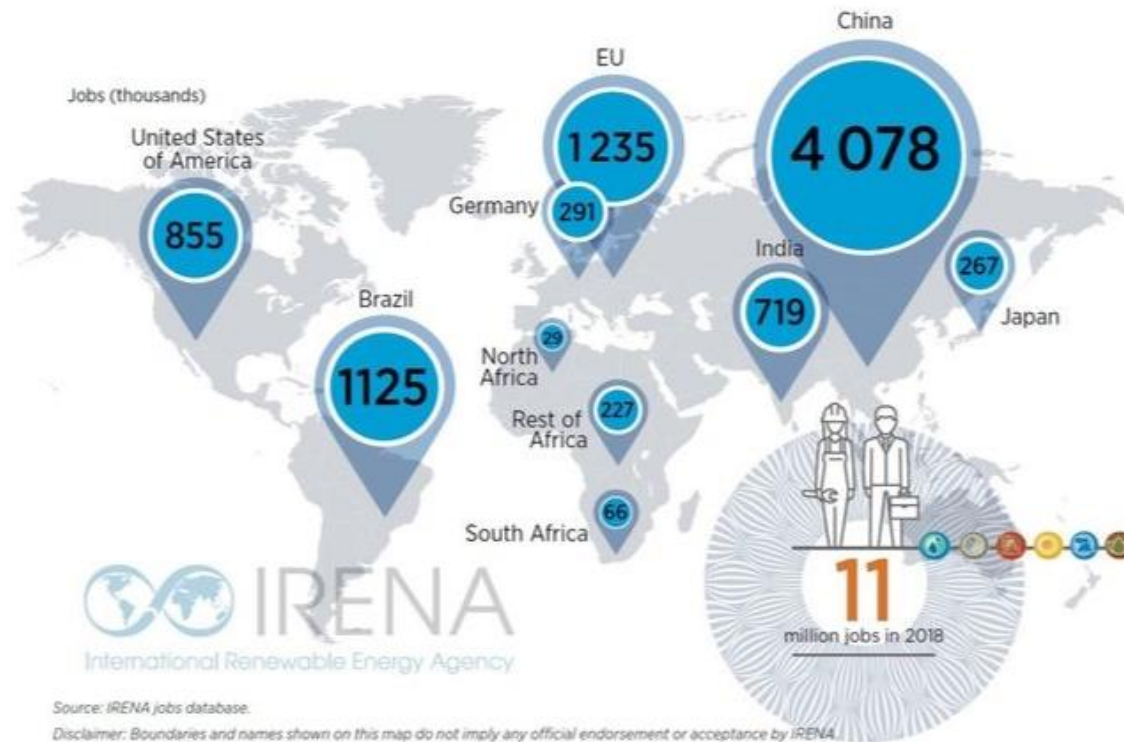
Key trends: RE Costs

- Costs from all commercially available RE technologies declined in 2018.
 - Leaders are CSP (-26%) and Bioenergy (-14%)
 - Solar photovoltaic (PV) and onshore wind (both -13%),
 - Hydropower (-12%).
- Onshore wind and solar PV power are now, frequently, less expensive than any fossil-fuel option, without financial assistance.
- Low and falling technology costs make renewables the competitive backbone of energy decarbonisation – a crucial climate goal.



Drivers for development of renewables

- Together, renewable energy and deep electrification can deliver more than 75% of the emission reductions that are needed in the energy sector.
- If energy efficiency is added these measures together make up over 90% of emission reductions needed.
- Already today, 11 million are employed in the renewable energy sector



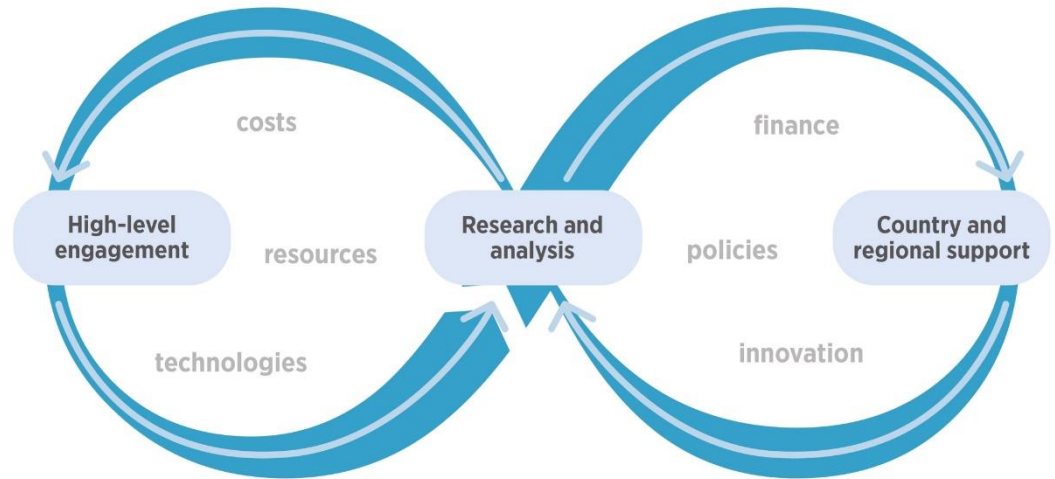
About IRENA



Established in 2011.

Headquartered in
Abu Dhabi, UAE.

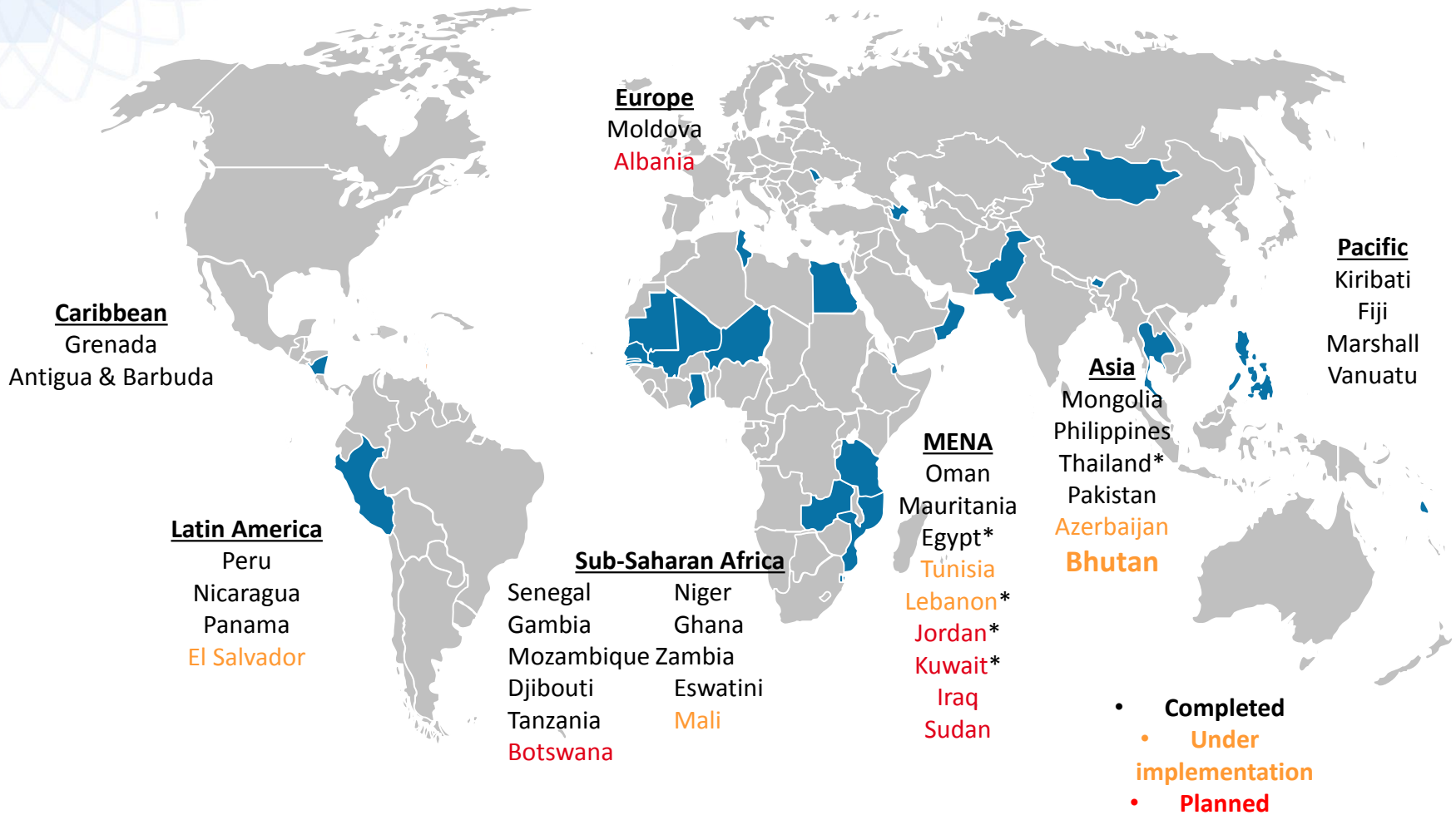
160 Members and
23 States in accession.



Promote the **widespread adoption and sustainable use** of all forms of **renewable energy** worldwide



30+ Country Assessments



RRA - Approach

What it is?

- It is the backbone of IRENA's country level engagement
- Country-initiated, country-led process facilitated by IRENA
- Inclusive and multi-stakeholder process promoting consensus
- Process establishing a basis for future collaboration

How is it done?

- Comprehensive assessment of the on-ground situation for RE deployment
- Identification of obstacles hindering accelerated deployment
- Recommendation of short / medium-term actions

Impacts of RRA recommendations

SENEGAL

Application Decree for the RE law on:

- Electricity generated by RE and their grid connection
- Purchase of surplus RE-based electricity from self-producers

VANUATU

- Standards for grid-connected systems
- National Green Energy Fund
- Ongoing reviews and amendments to various energy acts

PERU

- Renewable Energy Law
- Auction Reforms

MOZAMBIQUE

- RE resources mapping for the whole country done
- RE feed-in-tariffs adopted
- Rural Electrification Strategy

Post-RRA support from other Partners

Country	Partner	Area of Support
Mongolia	Asian Development Bank	Feasibility study on the Asian Super Grid
Djibouti	USAID	RRA as basis for Geothermal intervention
Senegal	World Bank	Strategy and action plan for renewables
	European Union	Certification
Vanuatu	The World Bank and GGGI	Access
	GGGI	Off-Grid for tourism
Niger	World Bank, AfDB and Power Africa	Mini-grid concessions

Key Factors for a successful RRA

RRA INITIATION

- Early discussions with national stakeholders
- Country preparedness to conduct a multi-stakeholder and inclusive RRA process
- Coordination with development partners to avoid duplication of efforts and to reinforce synergies

RRA IMPLEMENTATION

- Level of engagement of development partners from the early design phase to the finalization of the RRA
- Prioritization (and limitation) of actionable and feasible recommendations taking into account the country's broader economic and energy context

POST-RRA

- Country commitment and ownership of the RRA process and the outcomes to mobilize funding for implementation
- IRENA for post-RRA advisory and capacity building support

4 phases of the RRA process

Phase
1

Demonstration of
intent by the
government

Phase
2

Detailed country
assessment and
consultation

Phase
3

Validation

Phase
4

Implementation of
recommendations
and follow up



IRENA

International Renewable Energy Agency



Thank you

