

Renewables Outlook for the Eastern Partnership

1st Workshop of the Regional sub-sectoral network
on renewable energy



27 May 2021

About IRENA

Established in 2011.

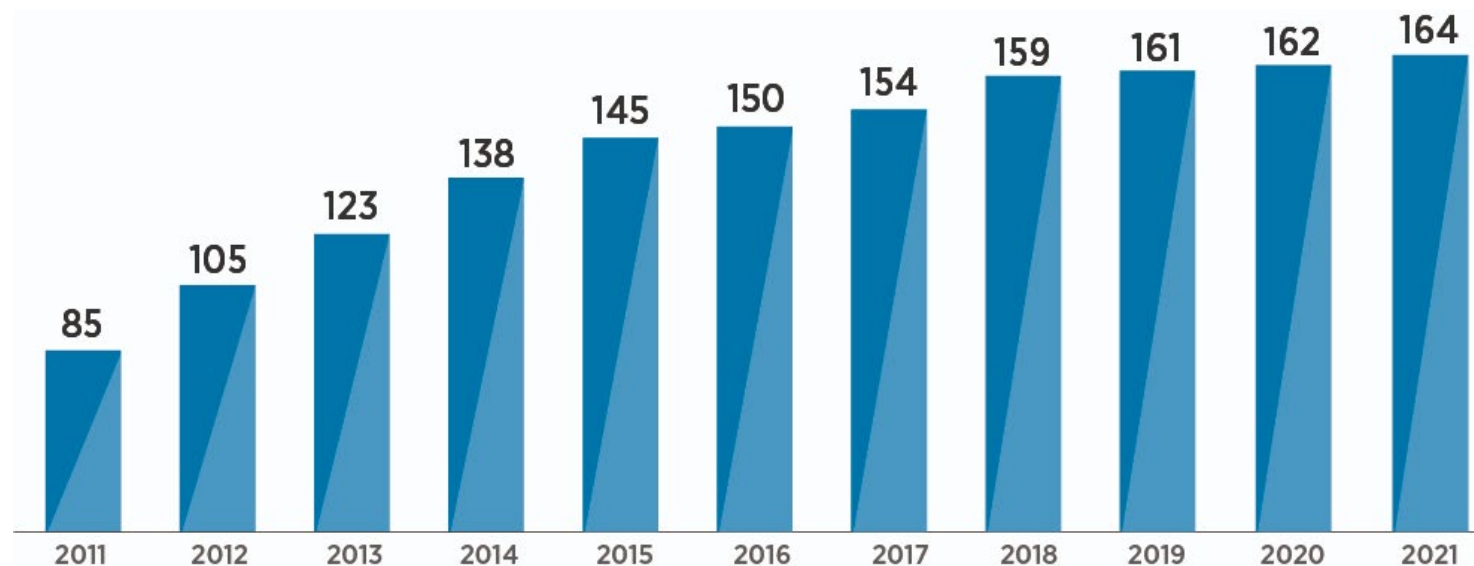
164 Members; 20 States in accession.

Mandate: to promote the **widespread adoption and sustainable use of all forms of renewable energy**

Scope: All renewable energy sources produced in a **sustainable manner**

IRENA serves as:

- Centre of excellence for knowledge and innovation
- Global voice of renewables
- Network hub
- Source of advice and support



IRENA Offices



IRENA Headquarters
Masdar City



IRENA Innovation and Technology
Center



IRENA - Office of the Permanent
Observer to the United Nations

IRENA's Renewable Energy Roadmap – explores feasible, cost-effective ways to **increase renewable energy deployment** in the energy mix in the long-term.

- Identifies concrete **technology options** by sector:
 - Power, heat, industry, transport and buildings
 - Sector coupling, VRE integration and energy efficiency
- Assesses investment **implications**
- Estimates economic and environmental **benefits**





Global

- Status of the energy transition
- Perspective for the global energy system to 2050 based on current and planned policies (the Reference Case).
- Detailed REmap transition pathway to 2050 – an energy pathway aligned with the well-below 2oC target of the Paris climate goals.
- **7 global reports ('14, '16, '17, '18, '19, '20, '21)**



Regional

- Assessment of technology options and regional disaggregation
- Identification of key technologies and trends, and cross-country opportunities
- 4 regional reports (EU, Africa, ASEAN, CESEC)
- **2 in progress (Central America, ASEAN 2.0)**



Country

- Insights for policy and decision makers for areas in which action is needed at a country level
- 13 country reports for major economies
- **3 near finalization, 2 more in pipeline**

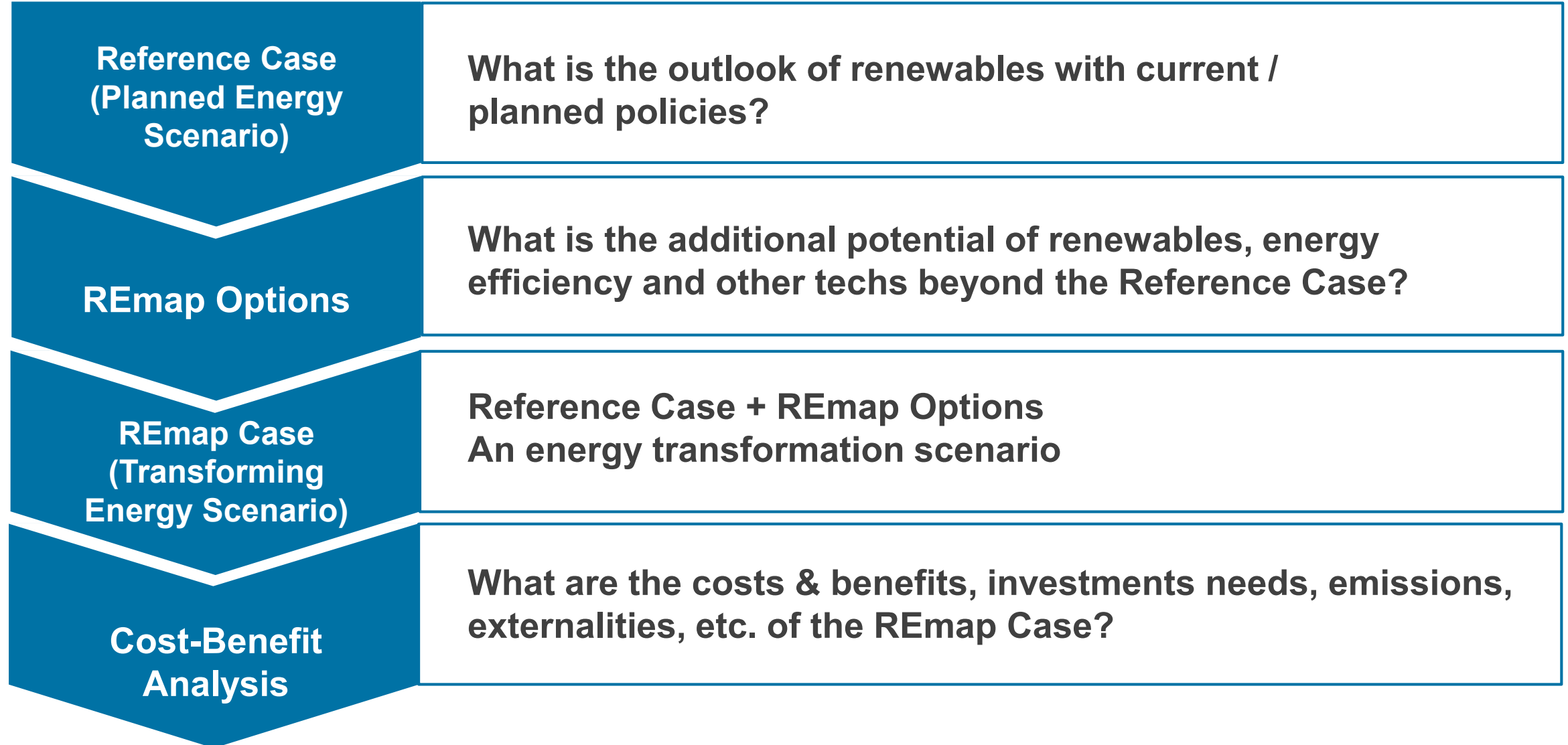


Thematic

- Provide detailed technical and economic analysis on specific topics (i.e. Future of Wind/Solar PV, RE investments, stranded assets, district heating and cooling etc.)
- **9 thematic studies**



The REmap approach



- Energy transition roadmap to 2030 and 2050 analyzing renewables and energy efficiency potential, required investments, key technologies, energy costs, externalities, emissions. Identification of regional implications and cooperation opportunities.
- Full energy system analysis: energy demand sectors (buildings, industry, transport) and energy supply (power and heat). Additional analysis of power systems operation with high shares of renewables.
- Two main pathways:
 - *Planned Energy Scenario (PES)* – current and planned policies (Reference Case)
 - *Transforming Energy Scenario (TES)* – emphasis on RE and EE, but not limited to these technologies. Alignment with Paris Agreement (REmap Case)
- Alignment with upcoming REmap analysis for the EU-27 Member States.

Process outline

