

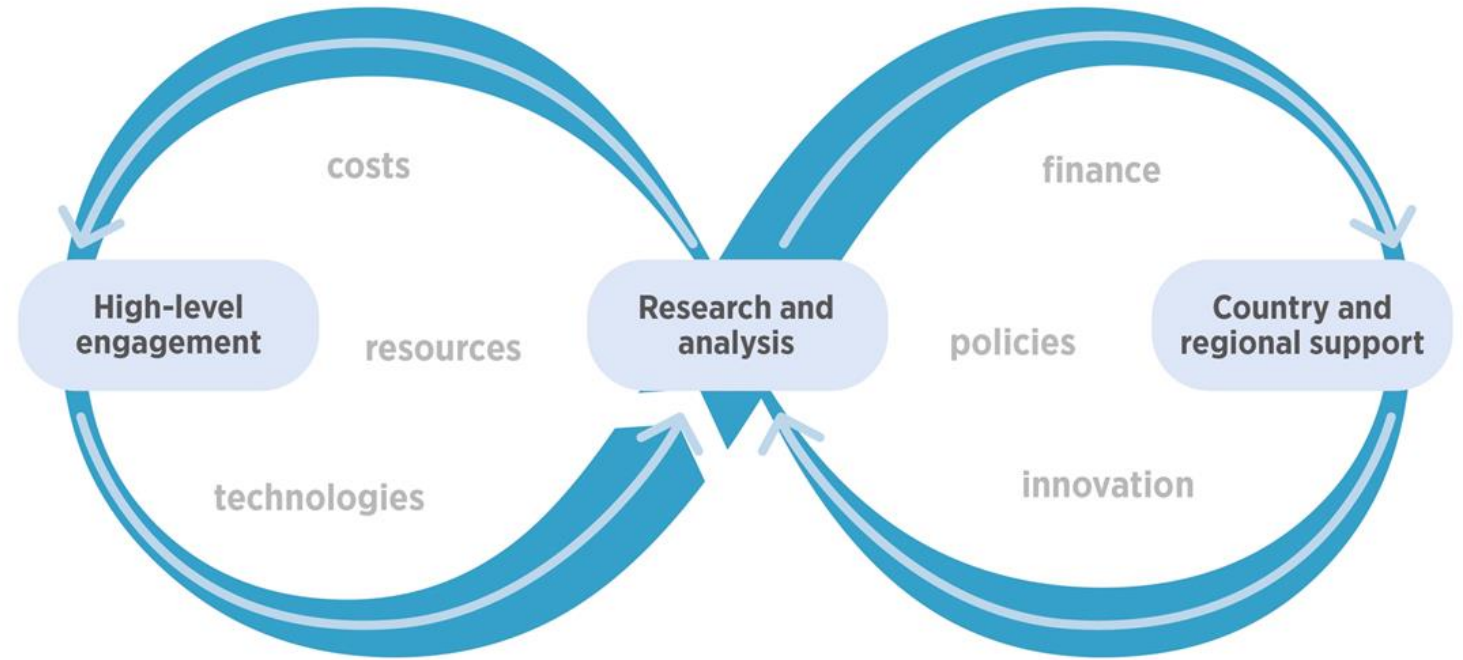


Cost Competitive Renewables in South East Europe

Luis Janeiro – Programme Officer, Renewable Energy Roadmaps

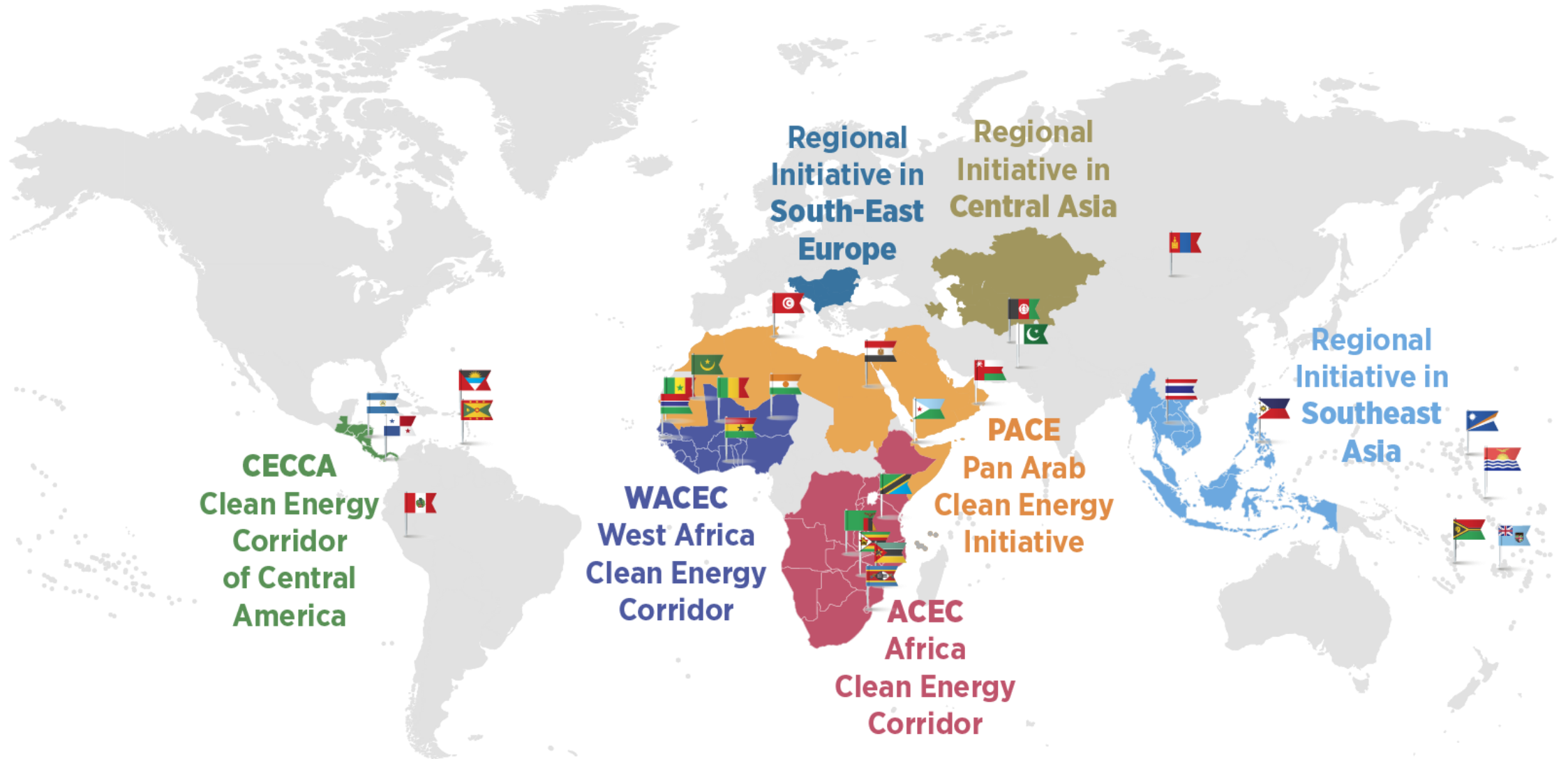
9th International Forum on Energy for Sustainable Development
Kiev, November 14, 2018

- Established in 2011
- 158 Members, 24 States in ascension
- Headquarters in Masdar City, Abu Dhabi, UAE
- IRENA Innovation and Technology Centre – Bonn, Germany
- Permanent Observer to the United Nations – New York

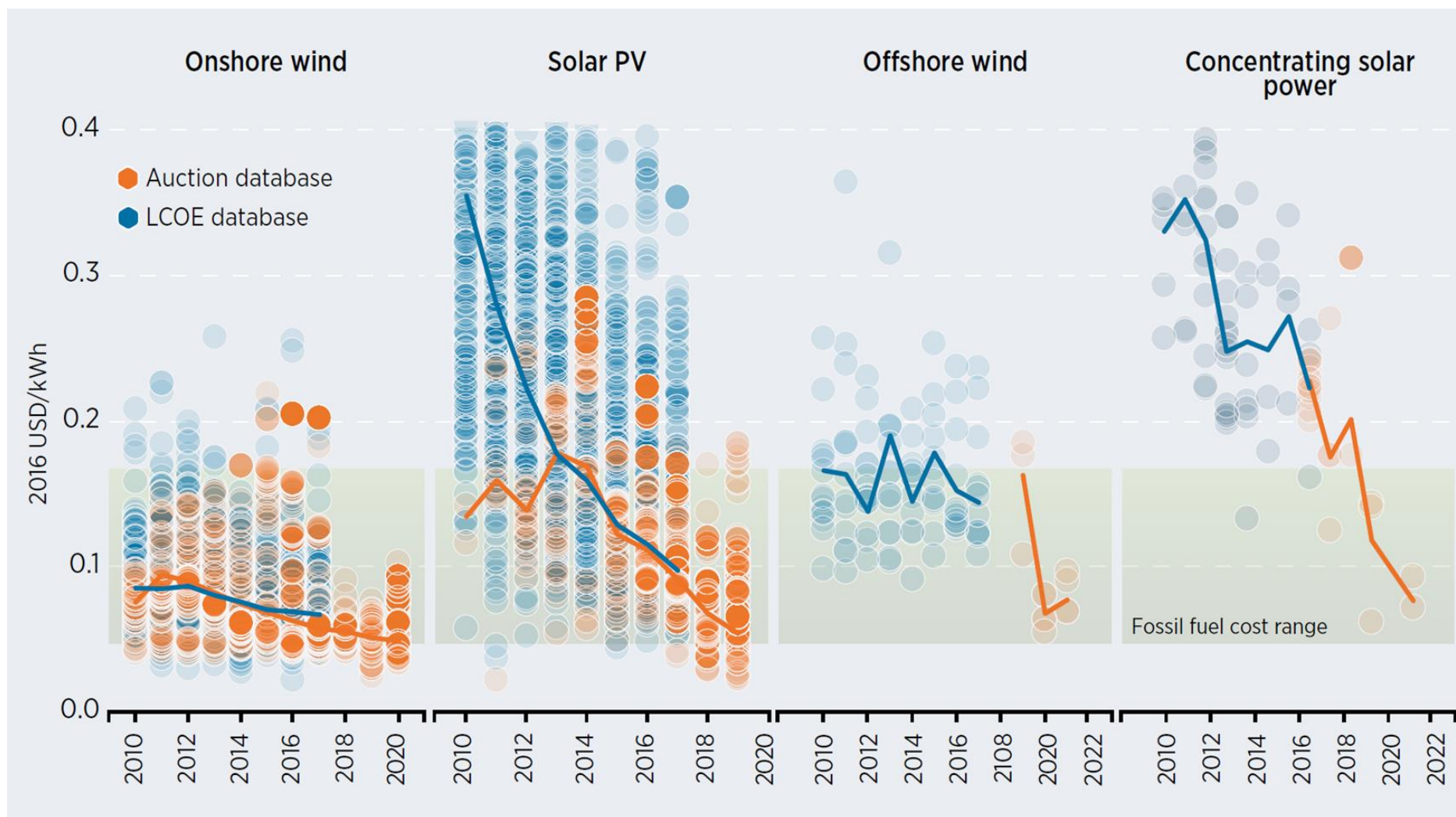


*The International Renewable Energy Agency (IRENA) is an **intergovernmental organisation that supports countries in their transition to a sustainable energy future**, and serves as the principal platform for international co-operation, a centre of excellence, and a repository of policy, technology, resource and financial knowledge on renewable energy.*

IRENA's regional engagement



Renewables are becoming competitive in a broader set of conditions. Cost improvements expected to continue...



IRENA costing database of 15,000 large scale RE power projects and 1.5 million rooftop PV systems

Covering half of all existing and planned RE capacity

Cost-competitive Renewable Potential of SEE



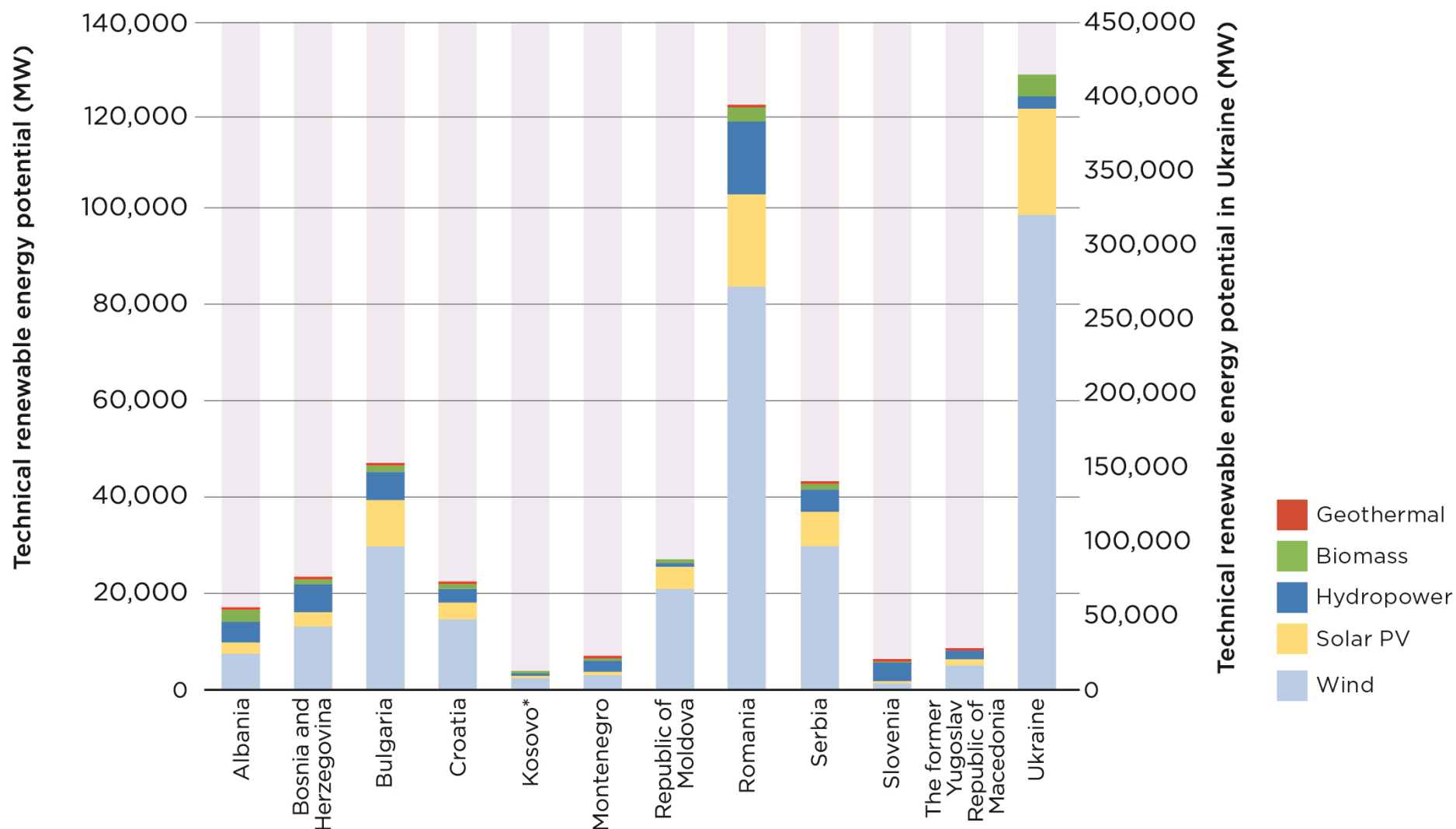
Assessment of the overall renewable electricity potential

Identification of cost-competitive RE potential – focus on wind & solar PV

Inform policy makers for the upcoming process of undertaking new commitments and developing long-term strategies for RE

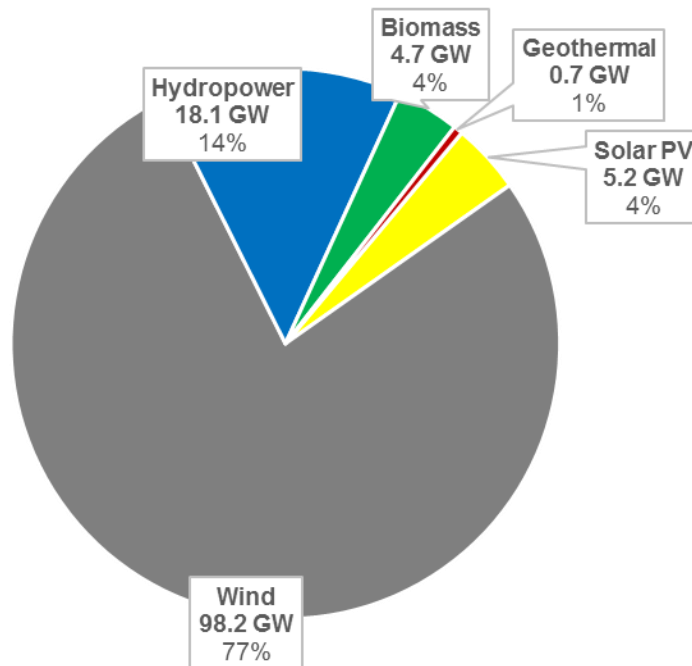
- ✓ LCOE within the ranges of the fossil-fuel supply options
- ✓ Level of cost-competitive potential today, 2030 and 2050
- ✓ Sensitivity analysis for cost of capital

740 GW Technical renewable electricity potential suitable for development

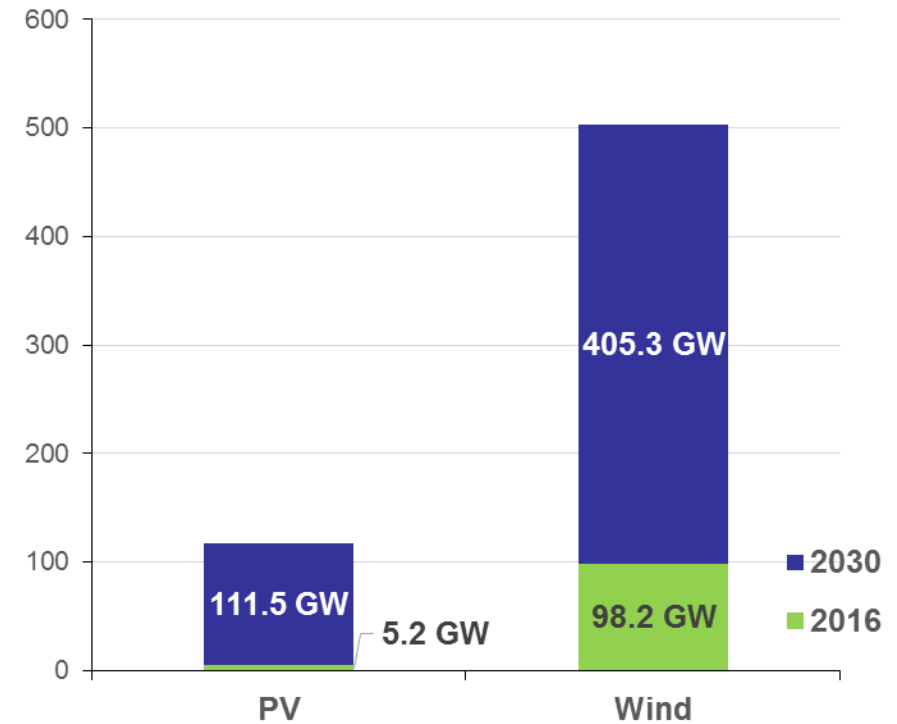


Additional cost-competitive potential

127 GW
Renewable Energy today



620 GW
Wind and Solar PV by 2030



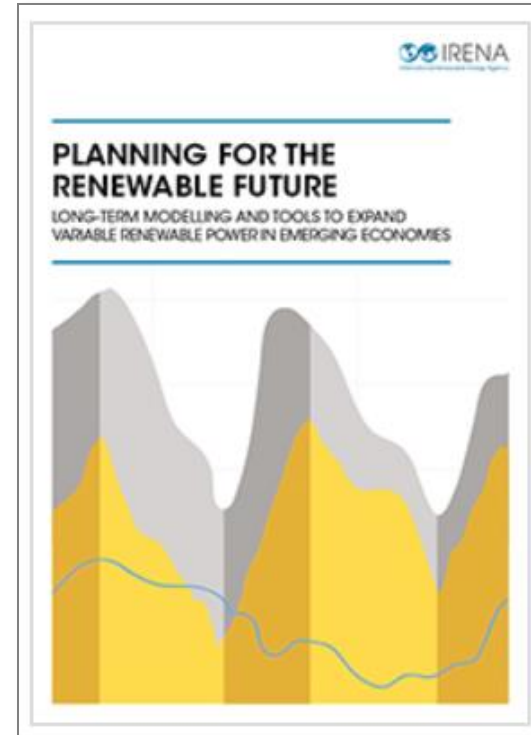
Ongoing work (I): VRE integration

SEE Regional Workshop

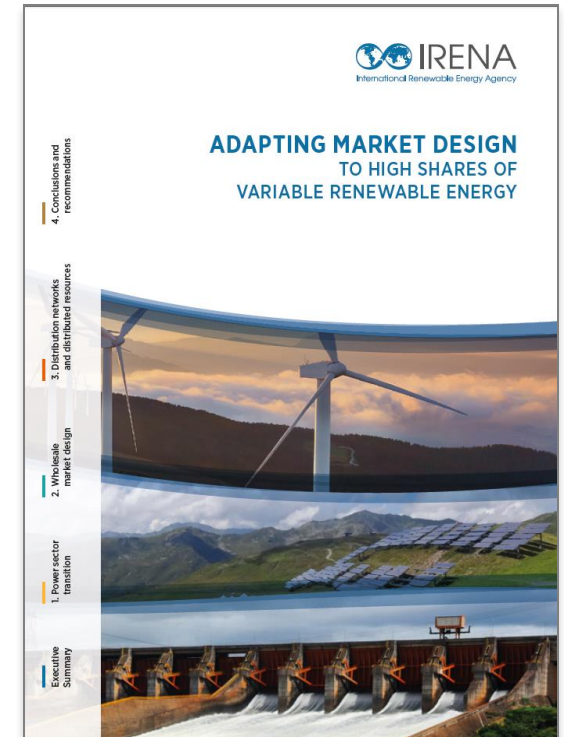
*With the Energy Community Secretariat
7 November 2018*

- Targeted at ministries, TSOs, DSOs, and regulatory body representatives
- Topics covered
 - Long-term planning for energy systems
 - Market design
 - Power system flexibility
 - Grid integration of VRE

January 2017



June 2017



Ongoing work (II): Regional Market Analysis

- ✓ Analyze **opportunities and constraints** of RE markets development
 - ✓ Identify **emerging trends** at the intersection of public policy and market development
 - ✓ Help raise awareness of **socio-economic benefits** of RE deployment, incl. jobs, industrial development & human welfare improvements.
 - ✓ Analyze the impact of RE on **end-user prices and affordability**.
- Bring together outcomes from different IRENA activities in the region



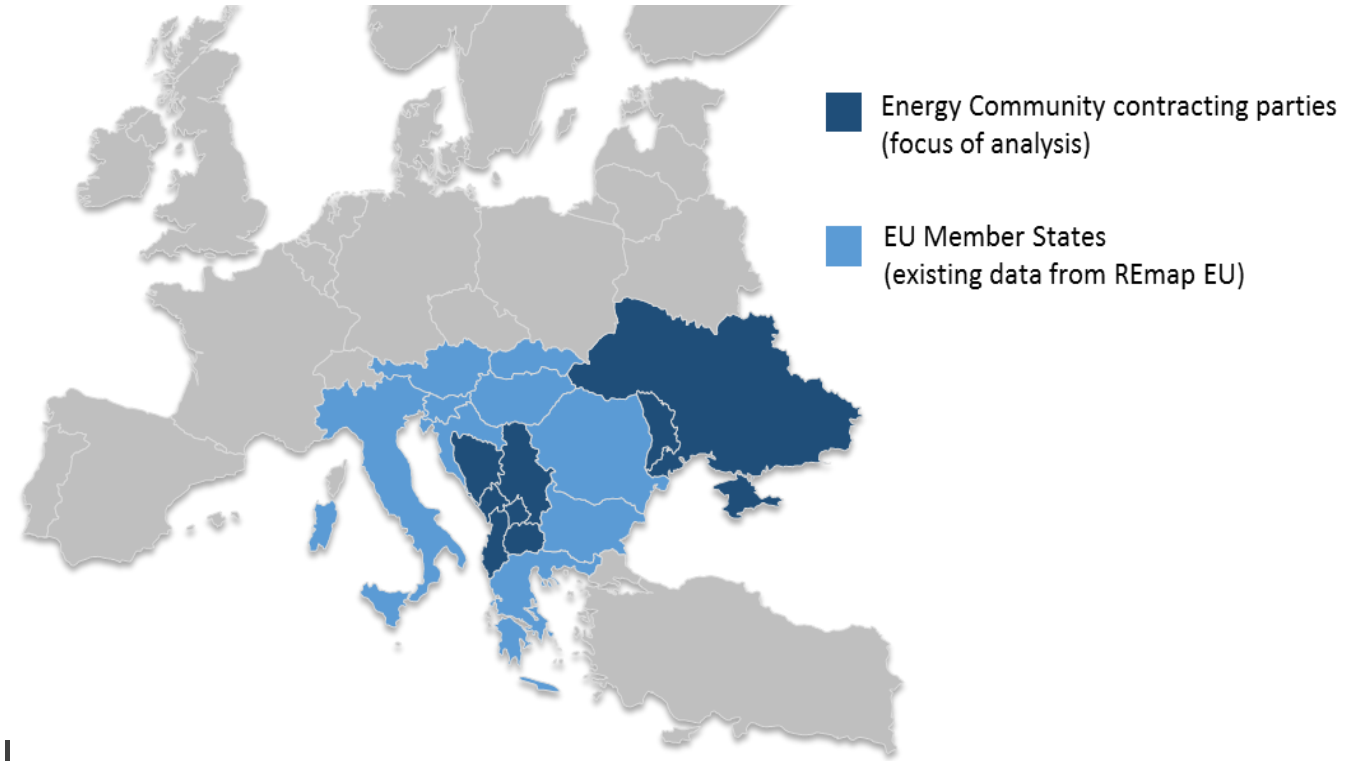
Ongoing work (III): REmap for CESEC countries

- **Sectors**

- Power and heat supply
- End-use sectors: buildings, industry, transport.

- **Time horizon**

- Detailed analysis to 2030
- Aggregated assessment of RE potential to 2050



The boundaries and names shown on this map do not imply any official endorsement or acceptance by IRENA.

