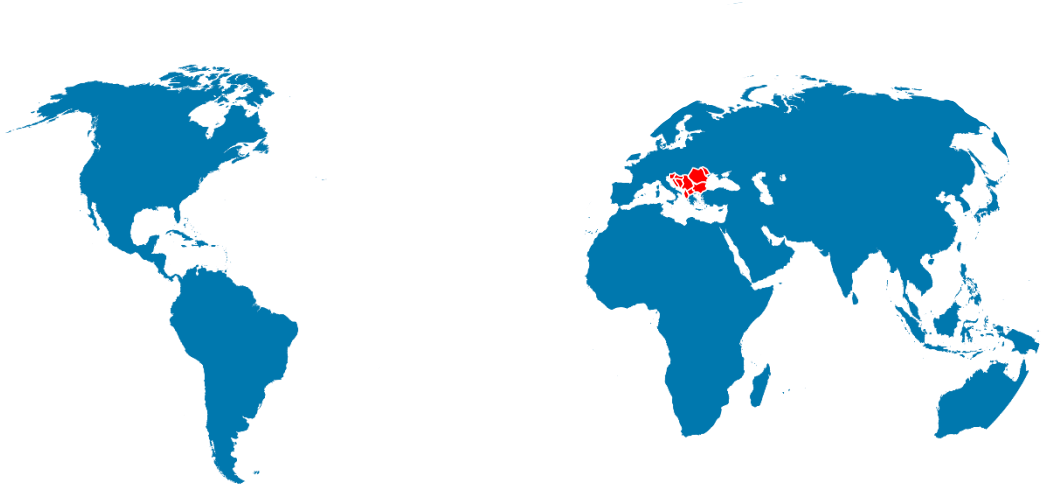
IRENA
International Renewable Energy Agency

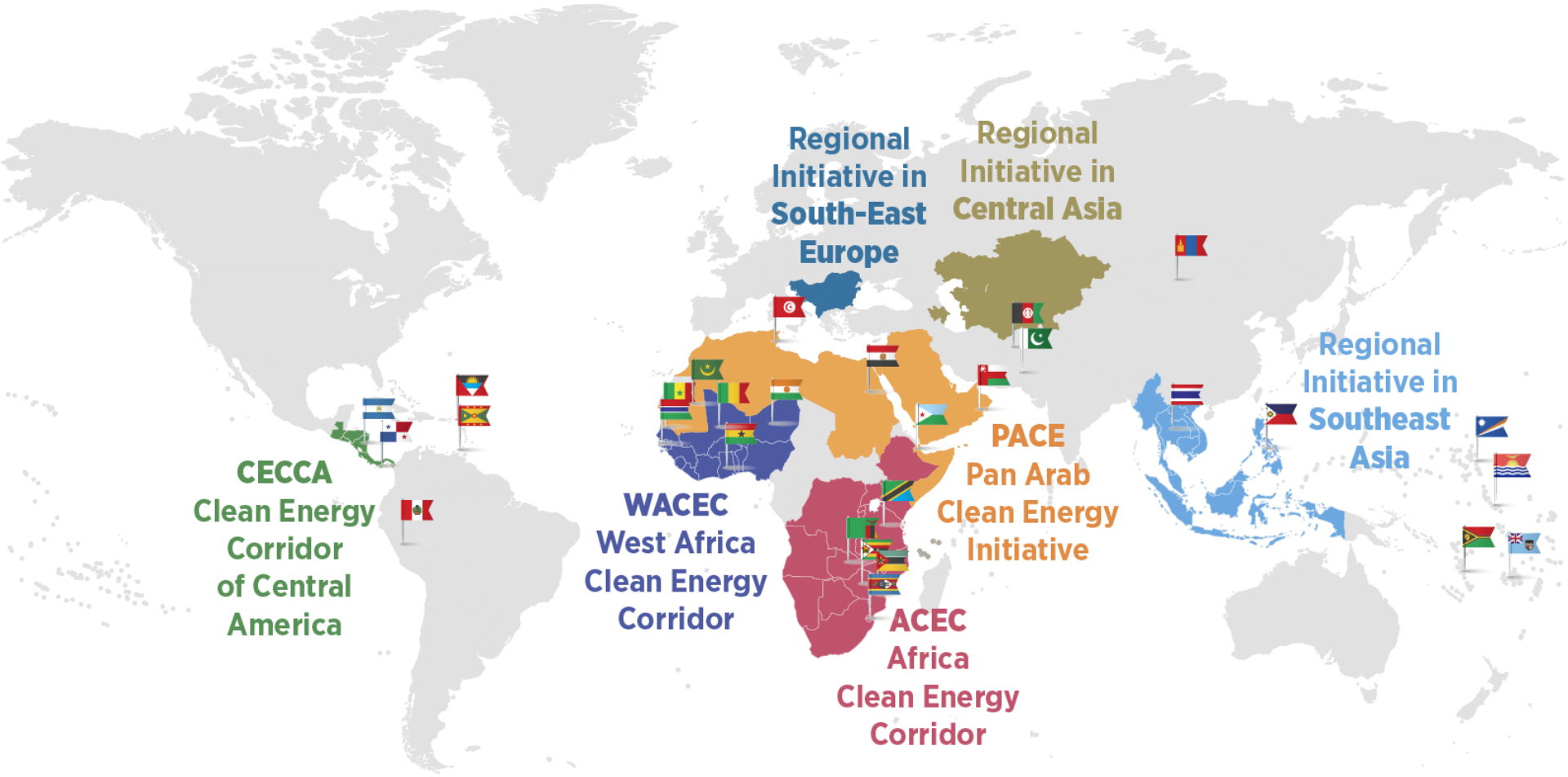


Supporting Renewable Energy Development in South East Europe

Brussels – 9 March 2018

Energy Market Integration and Transition in South East Europe

IRENA's Regional Engagement



South East Europe Regional Initiative

IRENA
International Renewable Energy Agency

Abu Dhabi **Communiqué** on Accelerating the Uptake of Renewables in South East Europe

Abu Dhabi, 13 January 2017

Action Areas

- Resource assessment
- Long-term planning for RE deployment
- Enabling frameworks: technical, policy, regulatory, institutional
- Market based RE support schemes
- Socio-economic benefits vs. affordability
- Access to financing for RE projects

European Commission

Energy Community

European Bank for Reconstruction and Development

UNECE

European Investment Bank

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

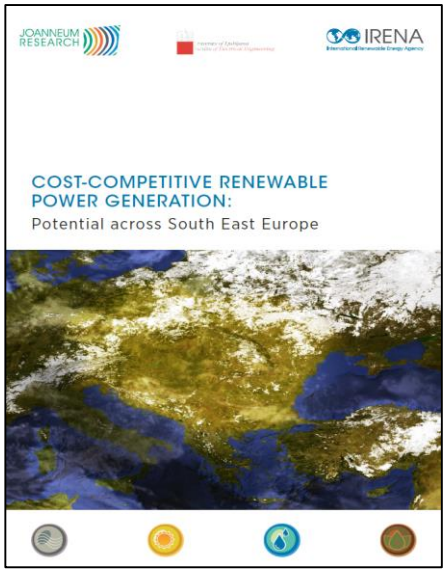
KFW

International Energy Charter

CEER Council of European Energy Regulators

Cost-Competitive Renewable Power Generation

Potential across South East Europe



Assessment of the overall renewable electricity potential in the region

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

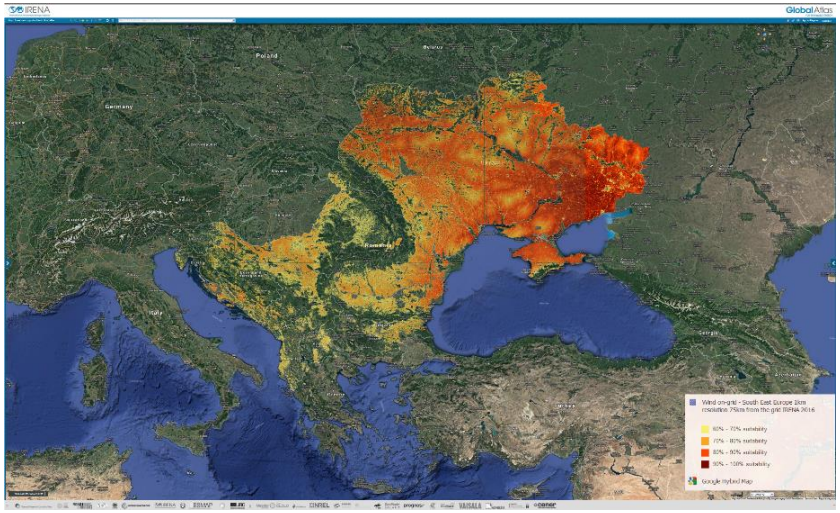
Inform policy makers for the upcoming process of undertaking new commitments and developing long-term strategies for renewables

On behalf of:
Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
of the Federal Republic of Germany

* This designation is without prejudice to positions on status and in line with the United Nations Security Council Resolution 1244 (1999).

Resource Assessment and cost analysis

Suitable locations
for **Wind** investments in SEE



Global Atlas
FOR RENEWABLE ENERGY

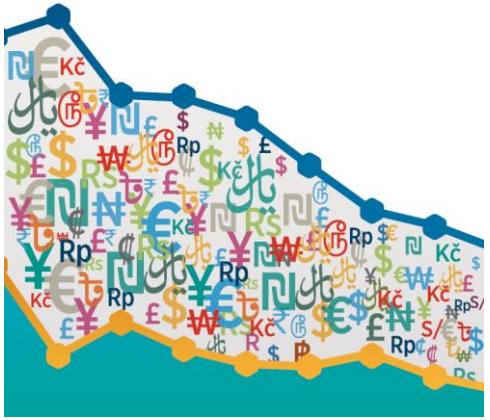
What is a good site?

- Renewable energy resource intensity
- Topography
- Population density
- Distance to the grid
- Land cover
- Protected areas

IRENA COSTS
Renewable Energy Costs, Technologies and Markets

Renewable Power Generation Costs in 2017

IRENA



IRENA Renewable Costing Alliance
IRENA Renewable Cost Database
based on data from
over 10,000+ utility-scale RE projects

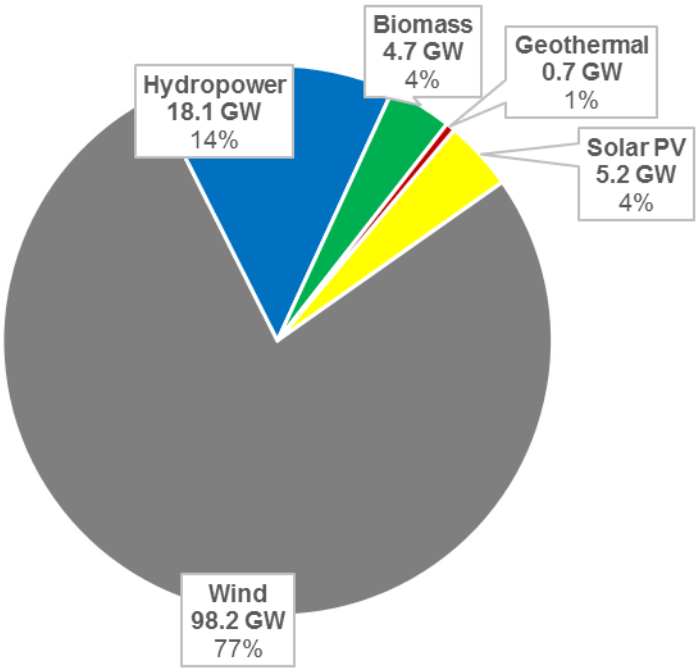
NREAP Targets vs. Cost-competitive additional potential

IRENA
International Renewable Energy Agency

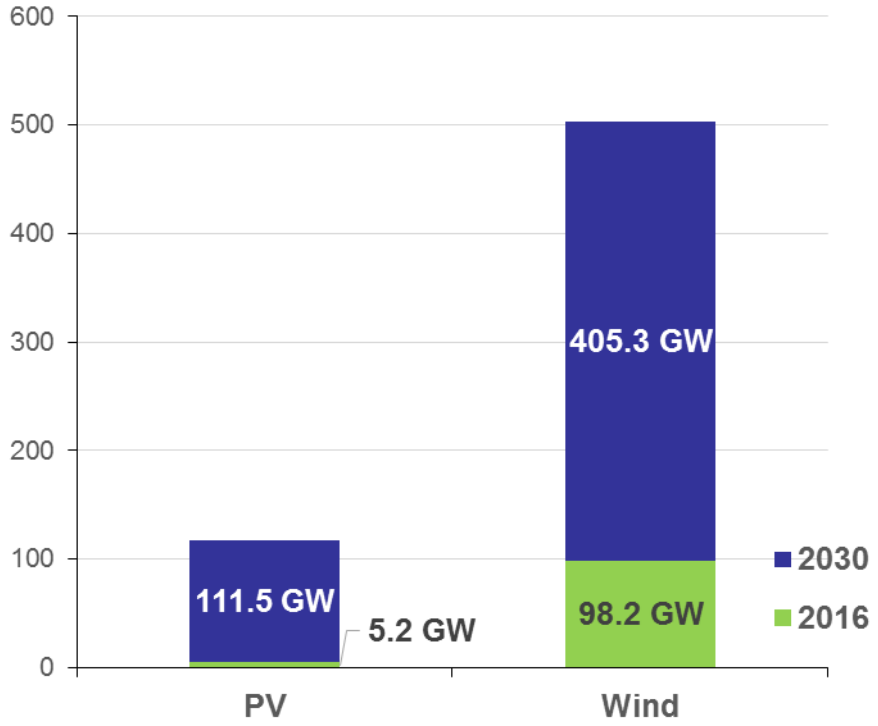
8.2 GW

Gap to achieve cumulative RE deployment target for 2020 (based on NREAPs)

127 GW
Renewable Energy today



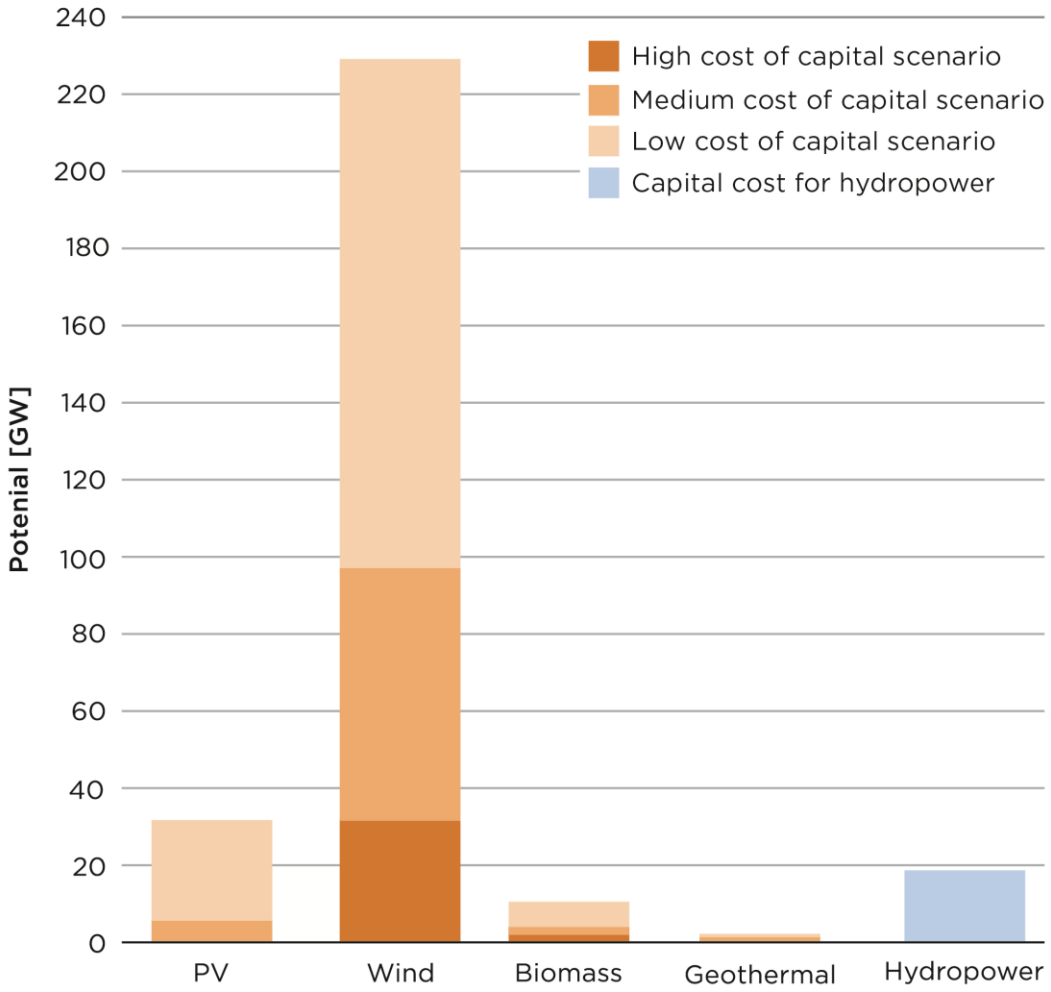
620 GW
Wind and Solar PV by 2030



Based on: Medium cost of capital scenario

Impact of cost of capital

Additional cost-competitive renewable energy potential in 2016



How to improve the risk perception of the region?

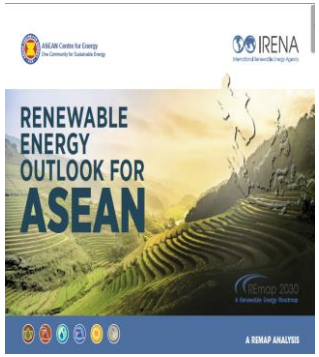
- ✓ Eliminate administrative barriers and improve market access
- ✓ Create attractive and consistent RE support schemes
- ✓ Improve PPA structure
- ✓ Address grid integration challenges
- ✓ Enhance skills and capacities
- ✓ Facilitate access to finance

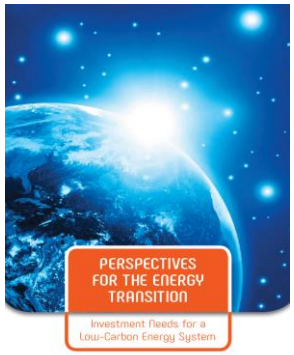
Post-2020 Renewable Energy Framework

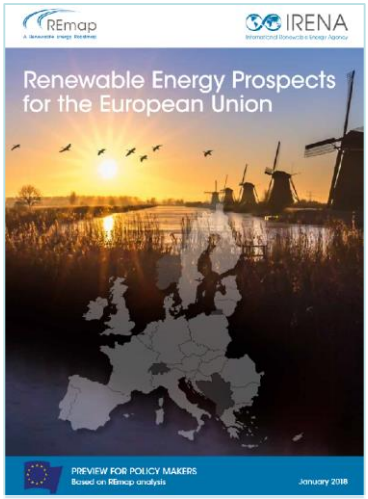
REmap CESEC

Identification of **feasible options for scaling up RE deployment** in power generation and end-use sectors

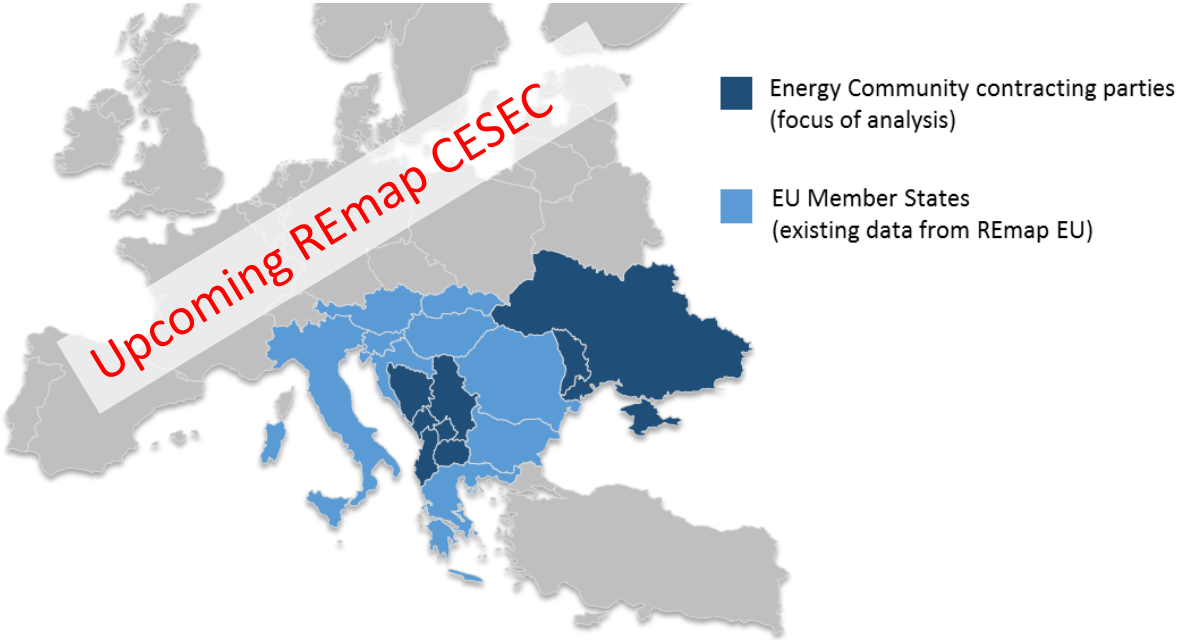
REmap 2030
A Renewable Energy Roadmap







The EU can double its **renewable share to reach 34% by 2030**, cost-effectively



Strengthening of Enabling Frameworks

Policy, regulatory and technical

Capacity building	**RE Support Schemes**
Capacity building	**RE Socio-Economic Benefits**
Capacity building and advisory	**Streamlining Administrative Procedures**
Capacity building and advisory	**RE Grid Integration**

RE Support Schemes

IRENA International Renewable Energy Agency

IRENA–Energy Community Joint Workshop on **Renewable Energy Auctions**

Vienna, March 2017

- ✓ support instruments for renewable energy
- ✓ design and implementation of the auction-based support schemes - best practices from Europe and beyond
- ✓ implications of different auction approaches

European Commission · Energy Community · European Bank for Reconstruction and Development · European Investment Bank · Federal Ministry for Economic Affairs and Energy · Danish Energy Agency · enel Green Power

NEXT STEPS

- ✓ Policy **Guidelines on competitive selection and support for renewable energy**: EBRD and Energy Community Secretariat in collaboration with IRENA
- ✓ to analyse auction design in the **Republic of Moldova** *(as a part of Renewable Readiness Assessment)*

RE project facilitation support

- Regional workshop to share best practices and global experience on **financing and risk mitigation** for renewable energy projects – 2018
- Increased utilization of the RE project facilitation tools in the region

IRENA PROJECT NAVIGATOR

- ✓ A comprehensive platform giving project developers the tools – **at no cost** – to create robust, **bankable renewable energy project proposals**
- ✓ Trainings in South East Europe – Q2 2018

SUSTAINABLE ENERGY MARKETPLACE

6.3 billion US $ Total investment cost

2892.34 MW Combined installed capacity (power generation projects only)

142 Projects

82 Financing instruments

- ✓ Online platform to support project initiation, development and **access to financing**
- ✓ Operational in the non-EU countries of Southern and Eastern Europe since November 2017

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International Renewable Energy Agency

THANK YOU

Gurbuz Gonul

Acting Director
Country Support and Partnerships

International Renewable Energy Agency
www.irena.org