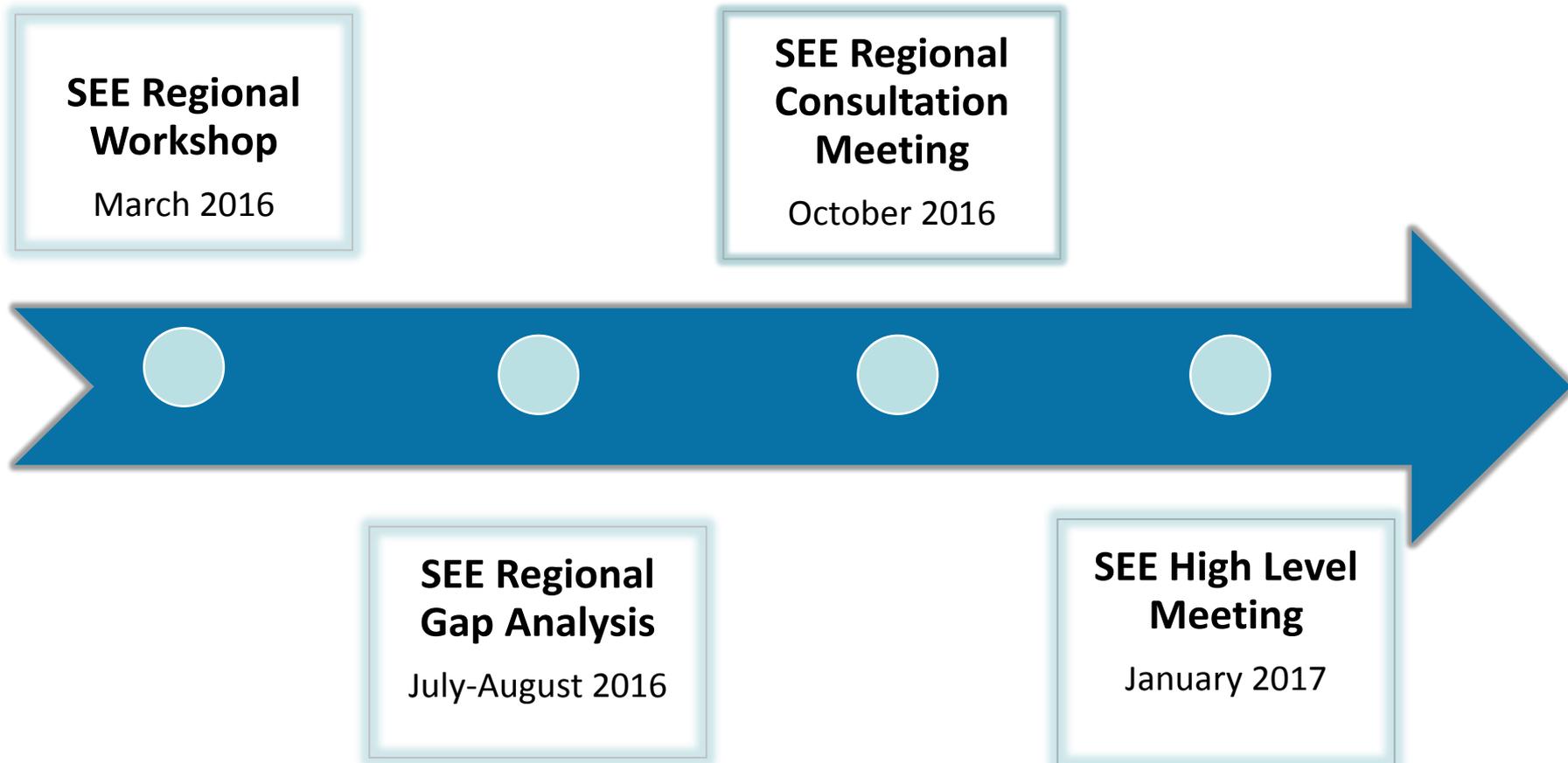


IRENA

**Draft Action Plan
to Support Renewable Energy Development
in South East Europe**

Regional Consultation Process



SEE Regional Workshop

Vienna, 3-4 March 2016

- ❑ Co-organized by IRENA and the Energy Community
- ❑ Discussion on:
 - ✓ Enabling frameworks for renewable energy investments in South Eastern Europe
 - ✓ Renewable energy potential in SEE – focus on solar PV
 - ✓ Innovative financing for RE projects



Participation: Governments; Regulators; Transmission System Operators; Distribution System Operators; National energy agencies; Energy market operators; International organizations; Development partners; Research entities; Industry; NGOs.

Regional Gap Analysis

Challenges and potential areas of support

Perspective of the governments

- Designing of adequate RE support schemes (more market based, in line with the EU requirements)
- Elaboration of RE supportive frameworks in the horizon up to 2030 (incl., revision of the NREAPs)
- Inadequate expertise on biomass statistics
- RE integration with the energy market
- Limited institutional and human capacities
- Perceived adverse social impact of renewables deployment (affordability)

Perspective of the development partners

- Coordination of a region-wide support, in a close collaboration with the Energy Community and national partners, to avoid duplication of work on the ground
- Support countries in preparation of RE frameworks for the perspective up to 2030
- Dissemination of up-to-date information, knowledge, best practices
- Raising awareness of the benefits of renewables deployment
- Providing capacity building support, incl. for local governments

Objective: Identification of the priority areas for action:

- Complementary to the existing / planned efforts in the region
- Adding most value to the region in supporting renewables development

Capacity building needs depend on RE experience
(2 groups of countries)

Capacity building needs are multifaceted & differentiated by country

Additional capacity building needs will emerge in the short to medium term

Group 1 -Countries, which implemented & revised their RE schemes, achieved their RED targets & have developed RE market

Group 2 -Countries, which have recently approved support schemes & RE markets are at early stages

- ✓ Informed policy making
- ✓ Data & analysis
- ✓ Finance
- ✓ RE projects & markets
- ✓ Understanding RE costs
- ✓ Making RE projects work

Better awareness – More institutions will be exposed to / involved in RE markets

Changes due to Renewable Energy Directive II

RE technologies advancing and infrastructure upgrades (e.g. smart grids)

Existing RE support in SEE

Regional legislative harmonization

- Energy Community, European Commission

Policy & regulatory assistance

- Energy Community, GIZ, USAid, EBRD, IFC, European Commission

Technical support

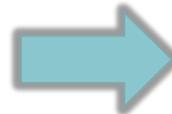
- EBRD, ADA, KfW, UNDP, European Commission

R&D

- CEI, European Commission

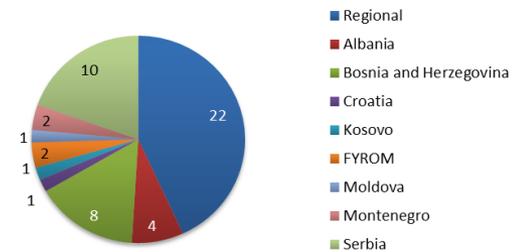
Investment facilities

- WBIF, GfG

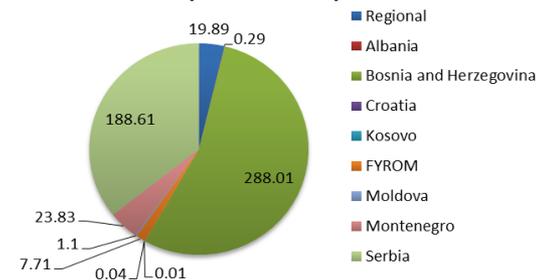


Renewable Energy Technical Assistance Projects

Number of projects by country coverage



Budget by country coverage (Million USD)



SEE Regional Consultation Meeting

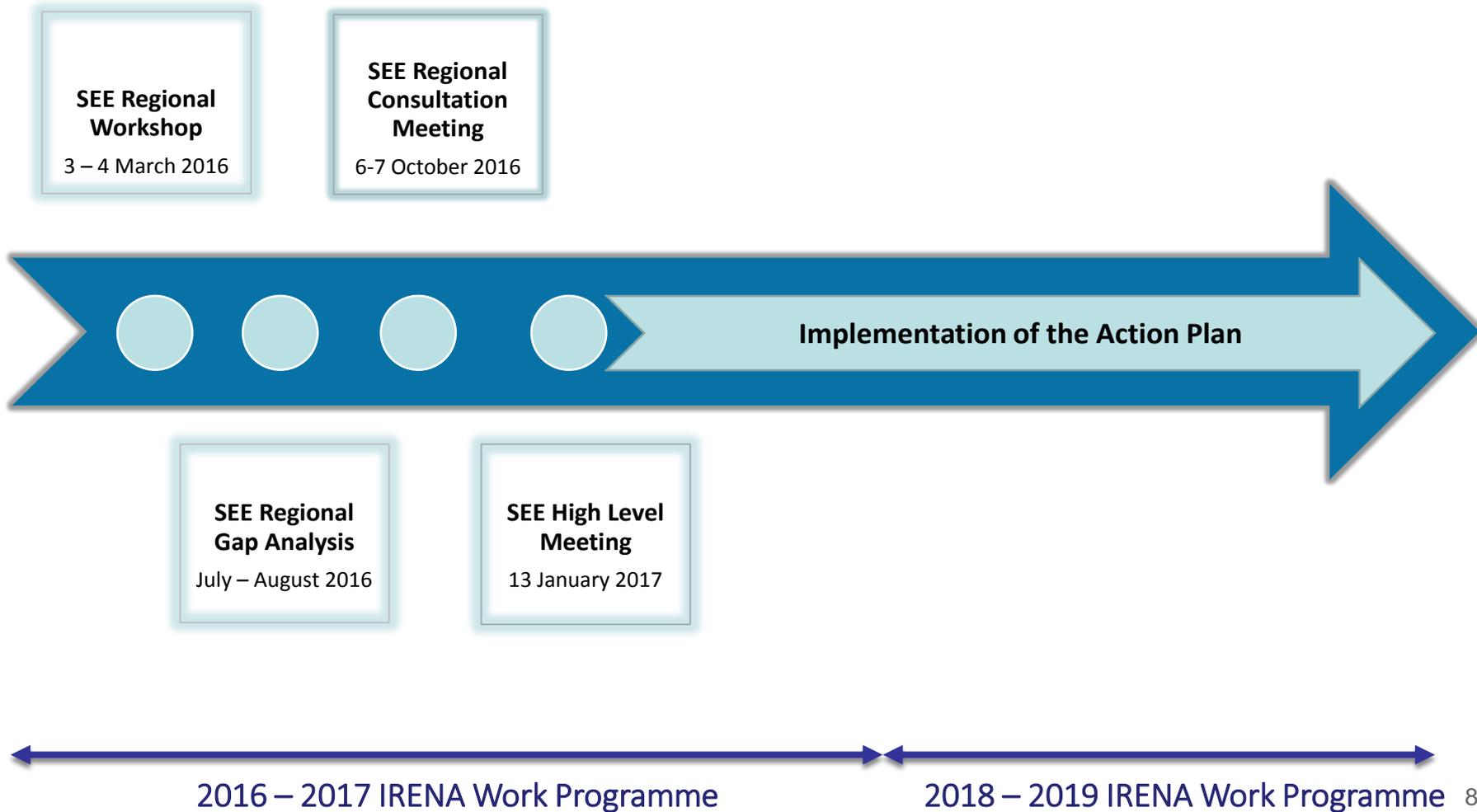
Bucharest, 6-7 October 2016

- ❑ Co-organized by IRENA and the Energy Ministry of Romania
- ❑ Discussion on:
 - ✓ Preliminary findings of the Cost-Competitive RE Potential study
 - ✓ Findings of the Regional Gap Analysis
 - ✓ Needs and priorities in the development of the RE sector
 - ✓ IRENA's potential role in supporting RE uptake in SEE



Participation: Governments; Regulators; Transmission System Operators; International organizations; Development partners

Draft Action Plan to Support RE Development in SEE



2016 – 2017 IRENA Work Programme

2018 – 2019 IRENA Work Programme 8

Draft Action Plan to Support RE Development in SEE

- A framework for engagement in South East Europe under IRENA's Work Programme 2016-17
- A basis for further discussion ahead of the 2018-2019 Work Programme, to be adopted at the 8th Session of the IRENA Assembly (January 2018)
- Implementation through close collaboration with a wide range of national, regional and international partners

Mapping of RE resources

New commitments and long-term strategies for renewables

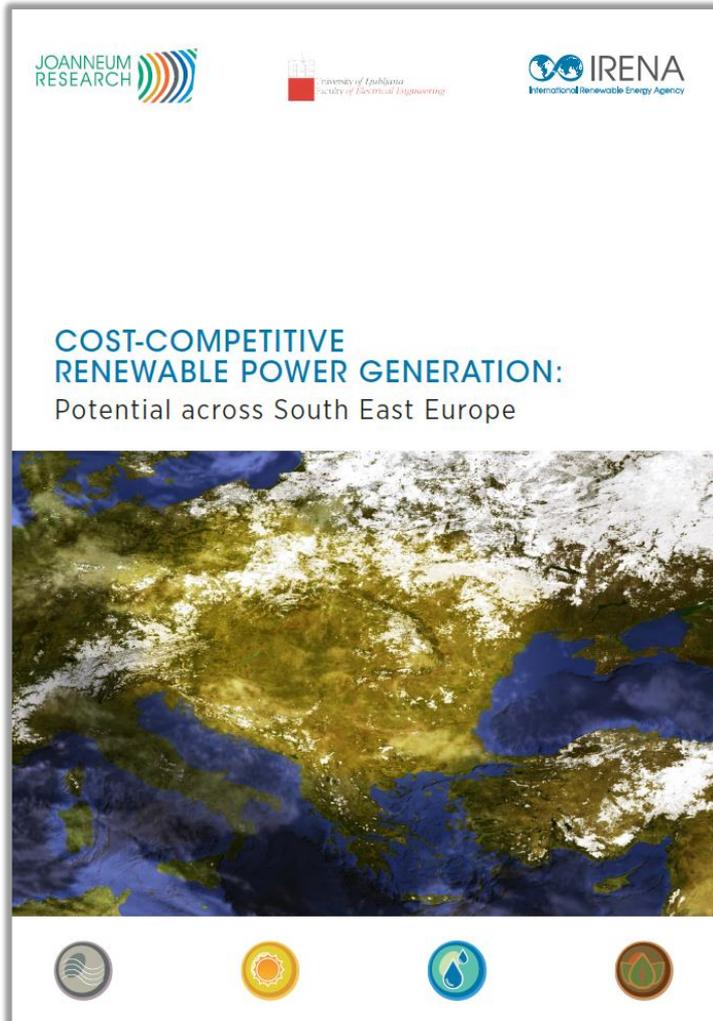
Socio-economic benefits of renewable energy development

Enabling frameworks

Integration of variable renewable energy to the power systems

Financing of renewable energy projects

Mapping of RE resources



JOANNEUM RESEARCH

University of Trubiana Faculty of Electrical Engineering

IRENA International Renewable Energy Agency

COST-COMPETITIVE RENEWABLE POWER GENERATION: Potential across South East Europe

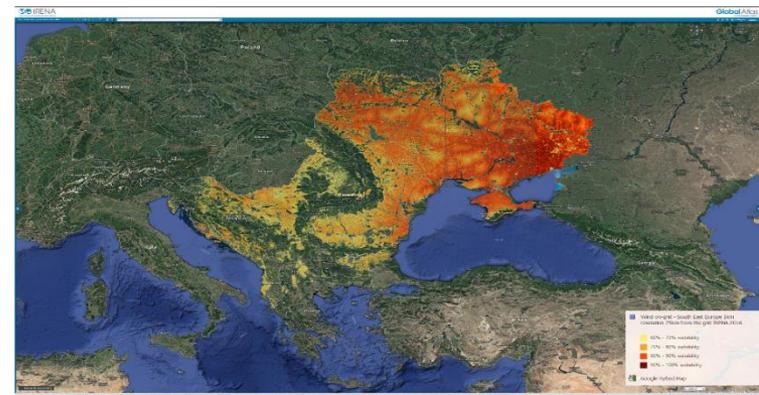


Four circular icons at the bottom represent different renewable energy sources: wind, solar, hydro, and geothermal.

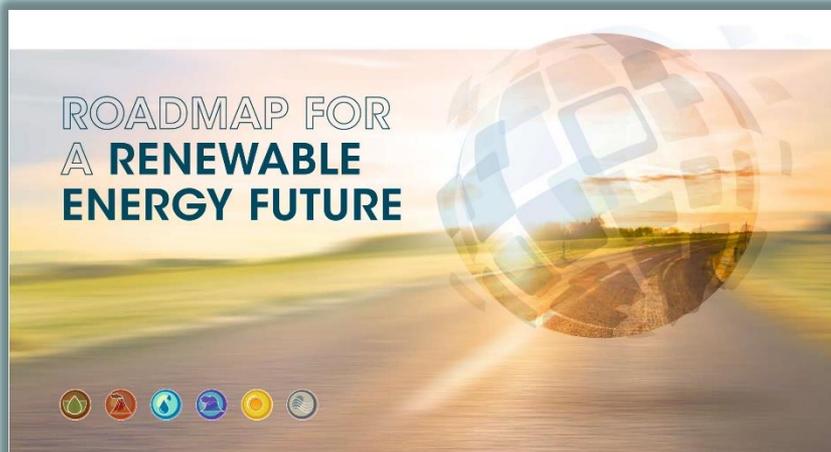
Suitable locations for **Solar PV** investments in SEE



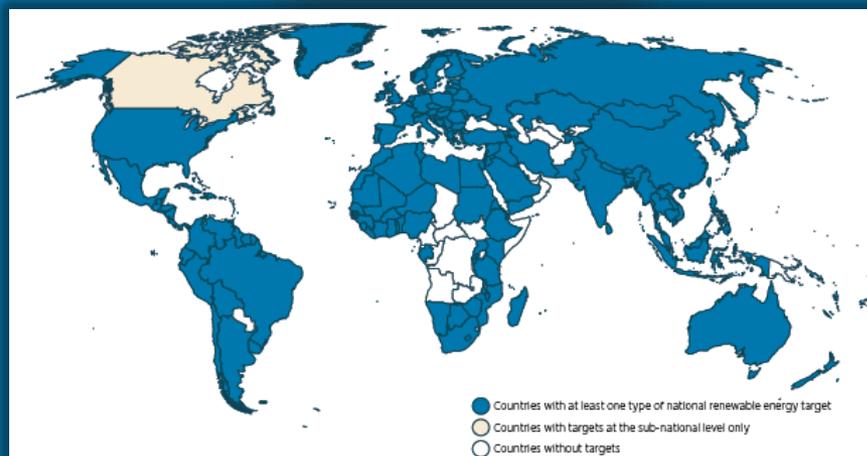
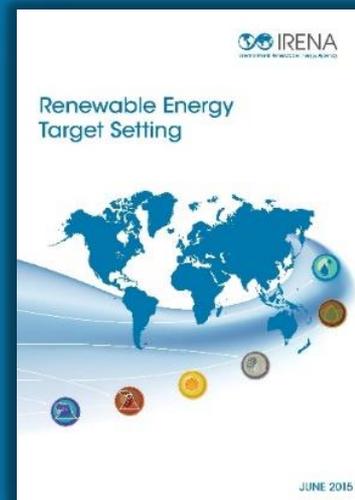
Suitable locations for **Wind** investments in SEE



Long-term strategies for renewables



- Identification of REmap 2030 options for scaling up the RE deployment in power generation and end-use sectors
- For the Contracting Parties of the Energy Community
- REmap EU underway



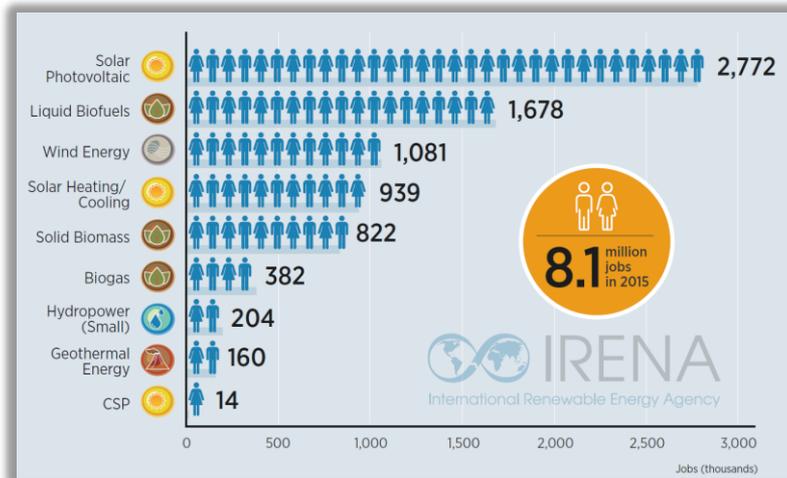
Targets in the global renewable energy landscape

Socio-economic benefits of renewable energy deployment

SEE Market Analysis

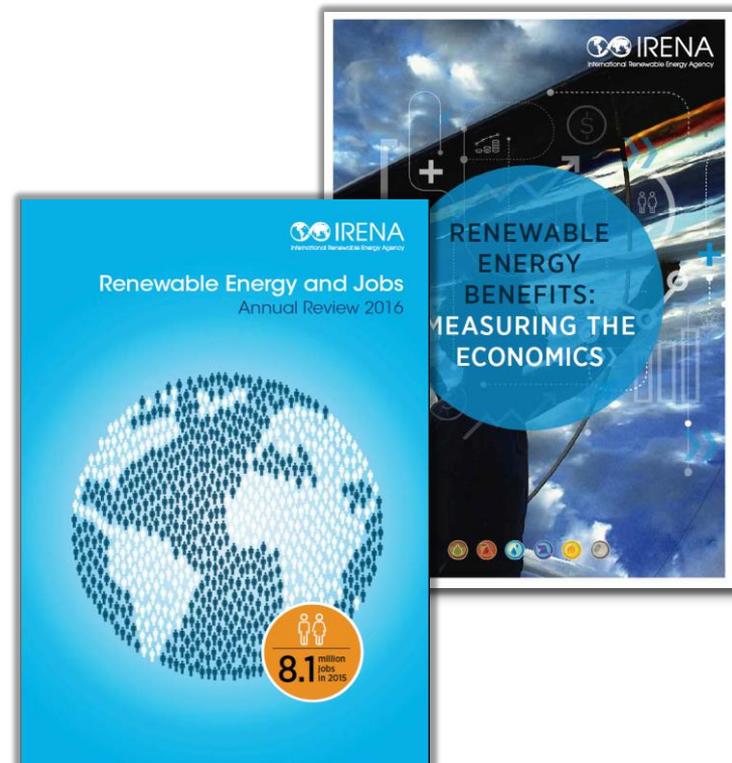
Identification of opportunities and constraints for renewable energy market development in South East Europe

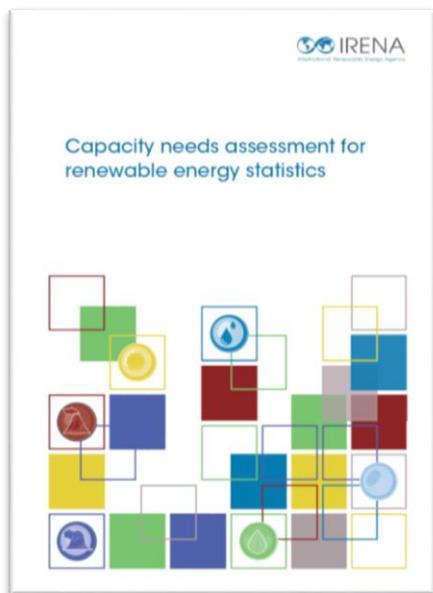
- Emphasis on **socio-economic benefits**, incl., job creation



Source: IRENA (2016), Renewable Energy and Jobs - Annual Review 2016

Assessing the impact of renewable energy development on end-user prices and affordability





Enhancing capacities to improve the collection of reliable data on renewables, in particular bioenergy

Solid legal and institutional framework

Well defined data requirements

Sufficient skilled personnel

Clear methodologies and processes

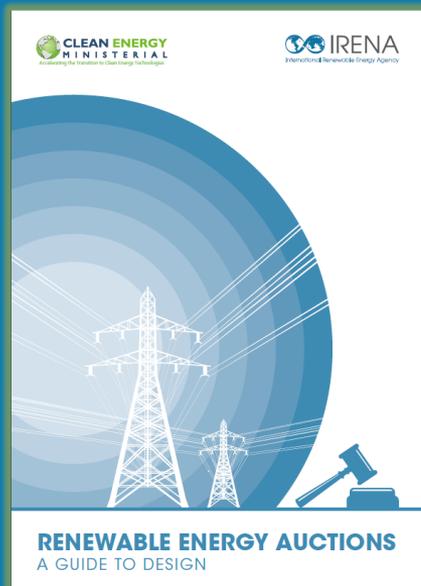
Appropriate data collection mechanisms

Analysis and validation procedures

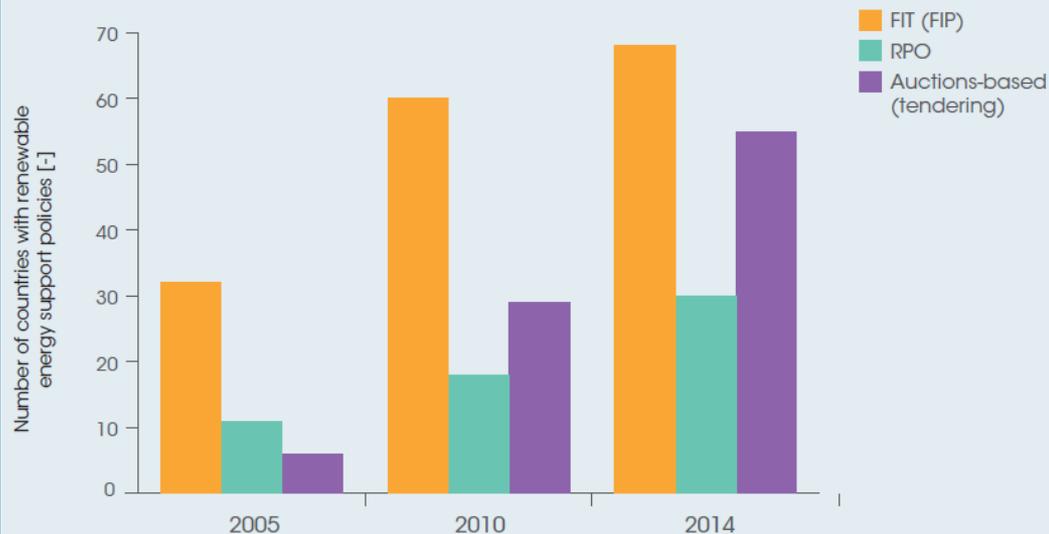
Mechanism for data dissemination

Capacity building for the establishment of
Market-based Support Schemes

Streamlining
Administrative Procedures
for renewable energy investment

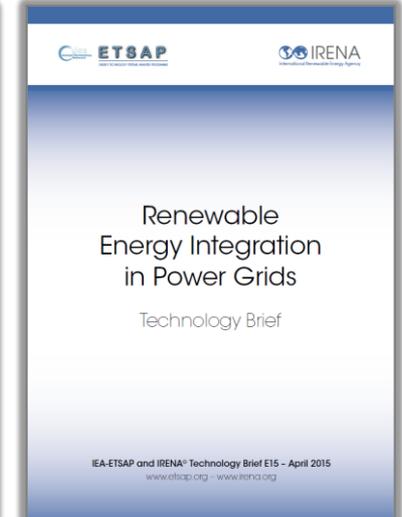
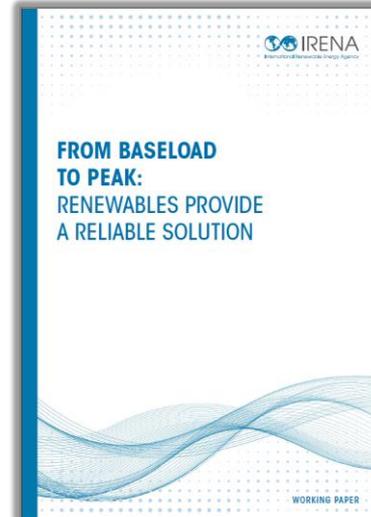
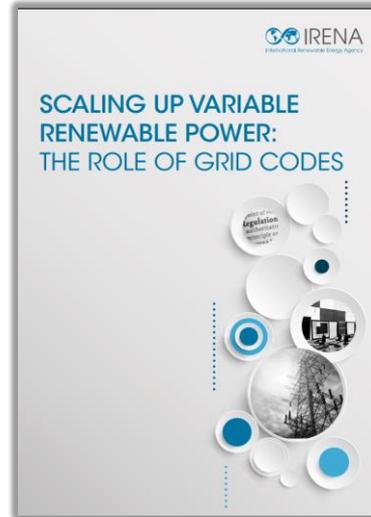


Number of countries with renewable energy policies, by type



Integration of variable renewable energy sources

Integrating variable renewable energy sources into the grid: implications for South East Europe



Grid integration studies

Dominican Republic,
Antigua & Barbuda,
Barbados

Central America,

Samoa, Cook Islands,
Palau, Kiribati, Fiji,
Vanuatu

Seychelles





Project Navigator

To make project development processes clearer and more systematic, facilitating the creation of more bankable projects in SEE.



IRENA SUSTAINABLE ENERGY MARKETPLACE

Sustainable Energy Marketplace

To support the initiation, development and financing of renewable energy projects in the region.



Thank you

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