













South East Europe Regional Initiative

About IRENA



Established in 2011.

157 Members and 25 more States in accession.

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

IRENA serves as:

- The principal platform for international co-operation,
- A centre of excellence, and
- A repository of knowledge on policy, technology, resource and finance for renewable energy.







ENERGY



GEOTHERMAL HYDROPOWER



ENERGY









WIND

ENERGY

ENERGY





Cost-competitive RE potential of SEE





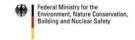
Assessment of the overall renewable electricity potential

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



On behalf of:



of the Federal Republic of Germany

Cost-Competitive Potential

- ✓ 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

NREAPs Targets vs. Cost-competitive additional potential

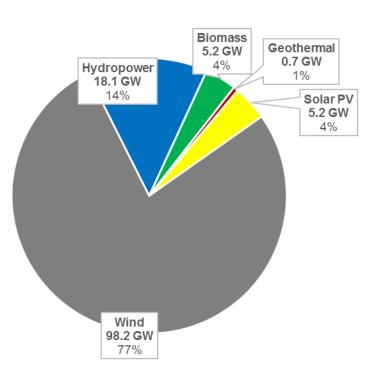


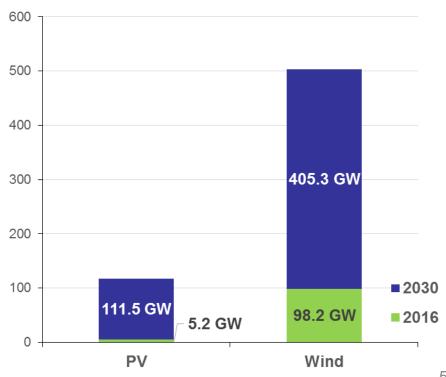
8.2 **GW**

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









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South East Europe Regional Initiative



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





















RE Support Schemes

Supporting the transition to more market-based schemes



Regional Workshop on RE Auctions March 2017

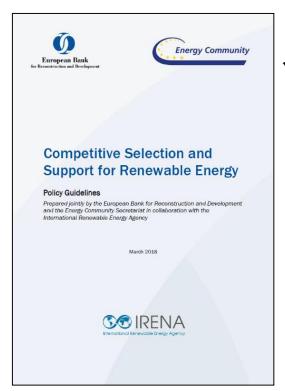
- > RE support instruments
- Best practices on auctionbased support schemes
- Implications of different auction approaches



RE Auctions Guidelines

March 2018

- Developed by EBRD and the Energy Community in collaboration with IRENA
- ✓ Targeting Energy Community countries



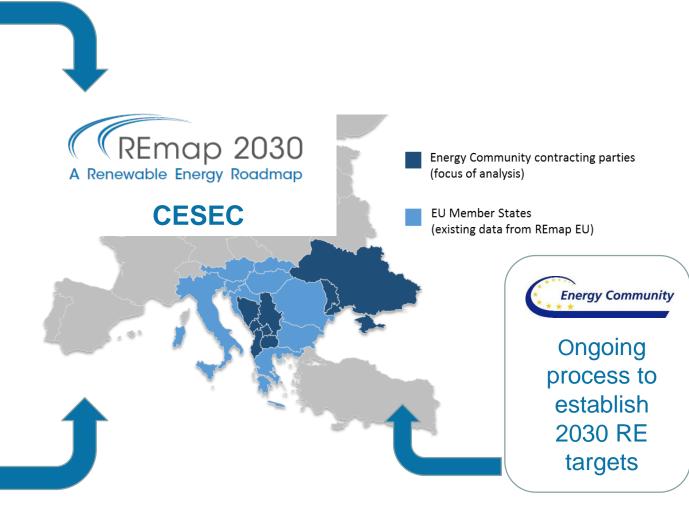
- Recommendations for auction design:
 - competitive process framework;
 - procurement choices;
 - selection process choices;
 - delivery mechanism of RE support.

REmap 2030 for the CESEC Region Supporting the process to establish post-2020 RE targets









Regional Market Analysis for SEE



- ✓ Analyze opportunities and constraints of RE markets development
- ✓ Identify emerging trends at the intersection of public policy and market development
- ✓ Help raise awareness of socioeconomic 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





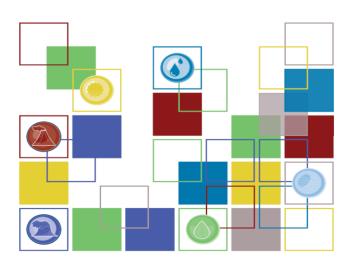
Regional Workshop on RE Statistics



Capacity needs assessment for renewable energy statistics



Co-hosted by the Ministry of Infrastructure and Energy of Albania



- ☐ Discussion on countries' experiences in data collection
- □ Key requirements for effective data management and data validation
- Energy balances
- Assessment of wood energy measurement and estimates, including:
 - □ Calorific values
 - □ Industry residues
 - Wood transformation















Overview of IRENA project facilitation tools

IRENA's project facilitation tools



IRENA has developed a wide range of tools and initiatives to support renewable projects throughout the whole life-cycle.

FEASIBILITY

Policy analysis and country profiles

Site identification

DEVELOPMENT

Project development support

DOCUMENTATION

Standardisation of solar PV documentation

MATCH-MAKING

Project assessment and match-making

DEPLOYMENT

Project pre-screening and cofinancing





Global Solar Energy Standardisation Initiative

SUSTAINABLE ENERGY MARKETPLACE

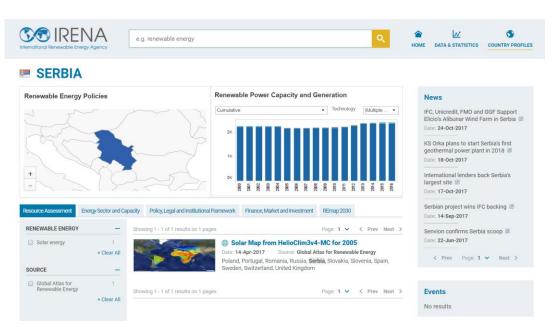


RESOURCE



- » Online search engine for renewable energy data and analysis
- » Enables users to find country-specific data, create charts and graphs and compare countries and regions
- » Provides market statistics and information on resource potential, deployment policies, finance, costs, benefits, innovations, education and other renewable energy topics



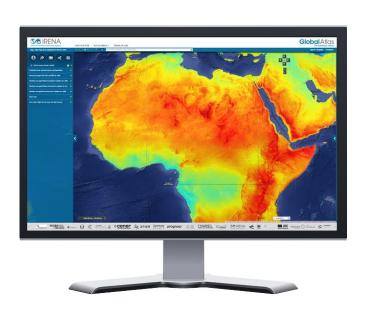


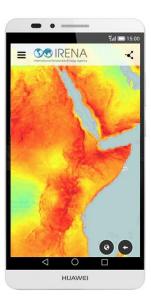
Global Atlas



- » Largest initiative to assess renewable energy potential on a global scale
- » Creates high-resolution resource maps
- » Includes solar, wind, geothermal, bioenergy and ocean energy resources (expanding to encompass all renewable energy resources)



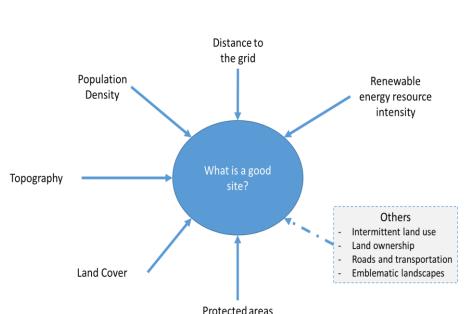




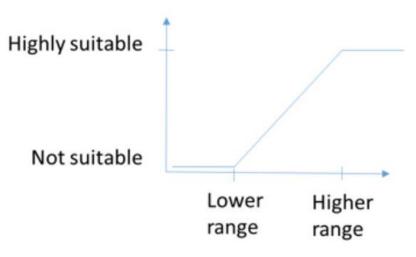
Global Atlas Suitability Analysis



The Global Atlas suitability analysis/zoning service involves GIS based spatial analysis using a method developed by IRENA for utility scale and off-grid applications.







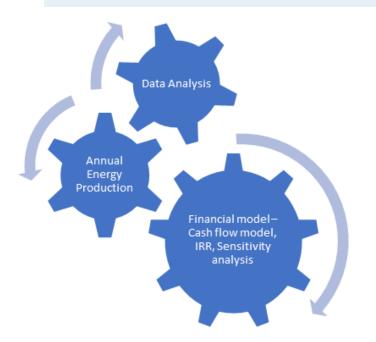
Global Atlas Site Appraisal Service



The service is an innovative and cost effective approach to screen/identify prospective sites for solar and wind development in countries.

System configurations covered:

- Wind (Utility scale)
- Solar (Utility scale)
- Solar and battery hybrid system
- Solar and diesel hybrid system



Interpretation I:

The site is economically feasible – within a given tariff range (in US cents/kWh)

Interpretation II:

The site is marginally feasible – only under certain conditions i.e. high current electricity tariff or very low financing costs.

Interpretation III:

Marginally feasible – only when pooled with several other economically feasible sites

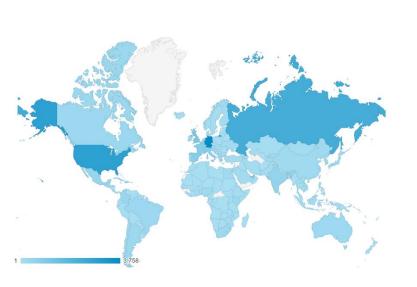
Interpretation IV:

Not economically feasible when compared to current tariffs in the country

Project Navigator



A comprehensive platform giving project developers the tools – **at no cost** – to create robust, bankable renewable energy project proposals.



IRENA Project Navigator users worldwide



Sustainable Energy Marketplace



Objective: Support initiation, development and financing of sustainable energy projects by:

- » Increasing the visibility of projects and financing opportunities
- » Creating a pipeline of bankable projects
- » Boosting private investment in sustainable energy
- » Offering active facilitation services



Sustainable Market Place Coverage

Sustainable Energy Marketplace Key Market Players



PROJECT HOST COUNTRIES

- Promote project portfolios
- Promote enabling investment environments

PROJECT OWNERS

- Ensure visibility for projects
- Identify investors and advisors
- Share data

SUSTAINABLE ENERGY MARKETPLACE



FINANCIERS

- Originate deals
- Project development support
- Co-financiers
- Find relevant country data

SERVICES & TECHNOLOGIES

- Originate new customers
- Find partners in project development / financing consortia
- Find relevant country data

Sustainable Energy Marketplace Regional Hubs & Partners

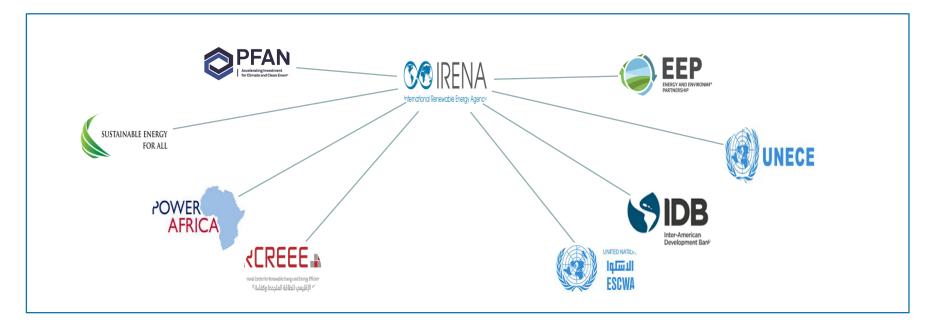


AFRICA ASIA

SIDS SOUTH EAST EUROPE

LATIN AMERICA MENA

PARTNERS NETWORK



Sustainable Energy Marketplace





http://marketplace.irena.org

174 #

Sustainable energy projects...

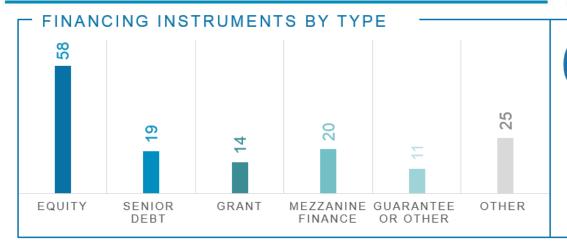
78 projects in LATIN AMERICA

72 projects in AFRICA

24 projects in SIDS

with their total installed capacity | total investment size being...

3.8 GW 8.4 BN USD



6 2 # Financial Institutions are registered on the

Sustainable Energy

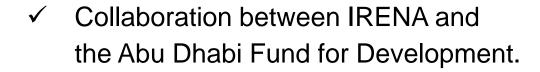
Marketplace, offering

4 7 # Financing Instruments

IRENA/ADFD Project Facility











✓ USD 350 million in concessional loans from ADFD over seven annual funding cycles to promising renewable energy projects in developing countries recommended by IRENA.



cycle will open in mid-November 2018. Start working on your applications now!

Apply here

www.irena.org/adfd



Thank you

Marcin Scigan, Associate Programme Officer











