

South East Europe Regional Consultation Meeting Bucharest, Romania 6 – 7 October 2016

Session IV: Identifying Priority Actions



RESOURCE ASSESSMENT

Resource assessment Solar PV and Wind suitability analysis



Global Atlas

FOR RENEWABLE ENERGY

Suitability analysis for solar PV and wind



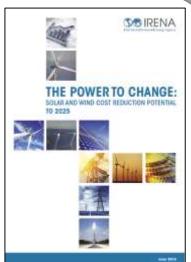




Renewable Energy Costs, Technologies and Markets

IRENA Renewable Costing Alliance IRENA Renewable Cost Database

based on data from over 9,000 utility-scale RE projects





IRENA's report on cost-effective renewable energy potential in SEE

(to be released in December 2016)



- How can the policy makers build on the results of the analysis on cost-effective solar PV and wind potential?
- How the outcomes of the analysis on cost-effective solar PV and wind potential can be integrated with planning efforts to design a National Renewable Energy Action Plan and set a RE target for 2030?
- How can we improve the data availability on the biomass, geothermal, and hydropower potential in the region?
- How can the Global Atlas further support the region in resource assessment?



ENABLING FRAMEWORKS Policy, Regulatory, Institutional

Enabling frameworks



Eliminate administrative barriers and improve market access Complex administrative procedures ☐ Lack of "One-Stop-Shops" **Create attractive and consistent RE support** schemes ■ Retroactive measures Setting appropriate support levels **Improve PPA structure** Early grant of the final PPA Address grid integration challenges Grid access Insufficient experience with non-hydro technologies **Enhance skills and capacities** Academic **Technical** Planning and operational Entrepreneurial Policy



Renewables Readiness Assessment (RRA) identifies

the actions needed to overcome a country's barriers to renewable energy deployment, with IRENA providing technical support and expertise to facilitate consultations

among different national stakeholders.

Post-RRA Support:

- ✓ Technical Assistance
- ✓ Advisory
- ✓ Capacity Building

SAVE THE DATE

LEGISLATORS FORUM 2017

12-13 JANUARY 2017

ABU DHABI, UNITED ARAB EMIRATES

If you are interested in participating, send an email now to legislators(lilirena org and join us in 2017 for the second edition of the Legislators Forum.



- Can the Renewables Readiness Assessment contribute to strengthening of the enabling frameworks for renewables in your country?
- What are the specific policy and regulatory areas that require support (RE target setting, RE support schemes, administrative barriers, regulatory approval processes, PPA etc.)?
- Which activities can be undertaken at regional vs. national level?



GRID INTEGRATION

Grid integration

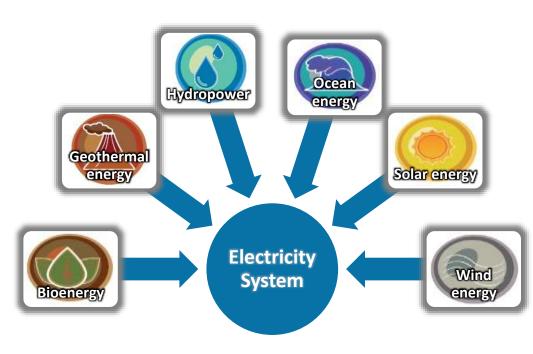


- Renewable power capacity has accounted for more than half of capacity additions in the global power sector since 2011.
- At the end of 2015, renewables comprised 28.9% of the world's generating capacity enough to supply 23.7% of global electricity.

Without relying on battery storage, renewables produced **38% of Spain's** electricity from January to October 2015.

41% of Danish electricity demand was met with wind (roughly 40%) and solar (2%) last year. A level of **87%** is expected just nine years from now, including 61% wind power and 3% solar PV.

RELIABILITY



Grid integration – examples of work



Clean Energy Corridor for Central America

Technical capacity building activities for grid operation

Technical assessment of control centres, operation practices and tools for a reliable integration of VRE into the system

Conducting a diagnostic on the maximum penetration levels of VRE under secure conditions in the regional system

Grid Integration Study:

- How much VRE can be integrated without major system upgrades?
- Is it feasible to achieve the target shares of VRE?
- What is required to achieve the target shares of VRE?

<u>Until now focus on small islands but</u> <u>moving towards larger interconnected</u> <u>systems</u>





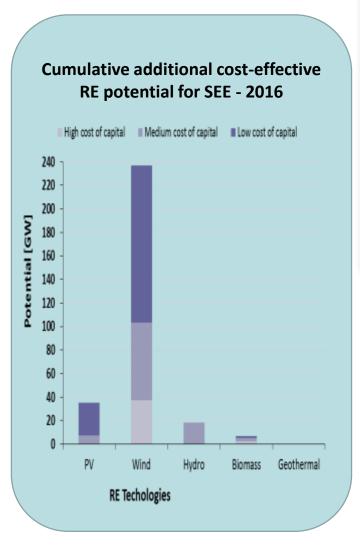
- Is grid integration a key challenge for TSOs in the region today?
 If so, how serious?
- How the experiences of Bulgaria and Romania on grid integration can be used for the benefit of the rest of the region?
- How can IRENA and other development partners complement the work of ENTSO-E and national actors?



ACCESS TO FINANCE

Access to finance







Access to finance





Project development tools

IRENA SUSTAINABLE ENERGY MARKETPLACE

Access to financing and risk mitigation instruments



Concessional loans





- How to support local financing institutions to scale up RE financing?
- How feasible to scale up energy cooperatives, crowdfunding for RE financing in the region?
- Can IRENA's financing tools be useful for the SEE region?
 - Project Navigator to help develop bankable RE projects
 - Sustainable Energy Marketplace to facilitate access to finance
 - IRENA/ADFD project facility as a source of concessional financing