

IRENA's Project Facilitation Tools

Tijana Radojičić Associate Programme Officer for Sub-Saharan Africa 1 February 2018 Nairobi, Kenya

About IRENA



- Headquarters in Abu Dhabi, UAE
 - Country Support and Partnerships
 - Knowledge Policy and Finance Centre
 - Innovation & Technology Centre (in Bonn, Germany)
- Established in April 2011
- 154 members, 26 states in accession

Mission: Accelerating deployment of all forms of renewable energy



Success stories Country profiles

RESOURCE
YOUR SOURCE FOR RENEWABLE ENERGY INFORMATION

Project concept

Site characterization **Global**Atlas

Deployment

Project pipelines
Corridors, RE
Roadmaps, Readiness
Assessments

Prefeasibility

Sustainable Energy Marketplace



Assistance to financial closure and debt facility

Investor ready

Feasibility

Sustainable Energy Marketplace

Evaluate, technical assistance

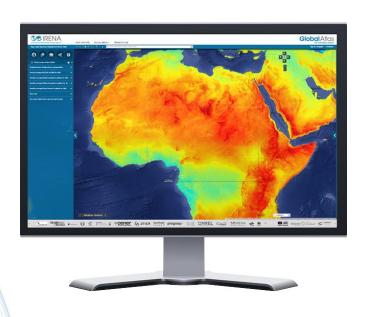
Bankable project development guidelines



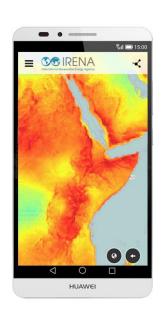


The Global Atlas for Renewable Energy:

IRENA's renewable energy prospector













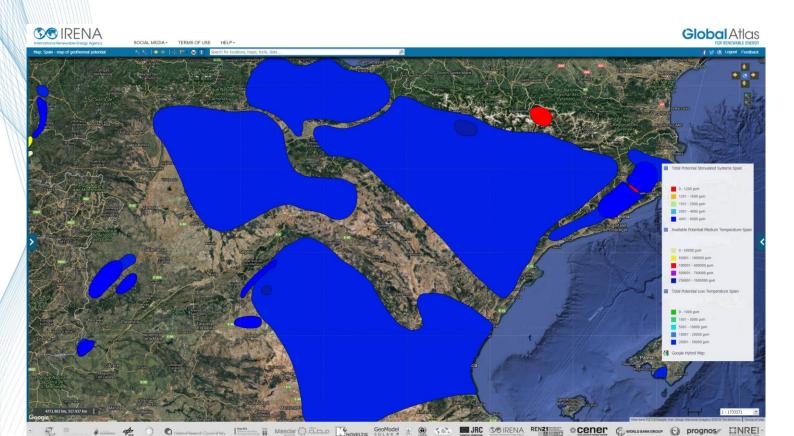




Geothermal component

For **geothermal** energy, the **Global Atlas** contains several maps (of geothermal potential and in some cases fields) covering **12** countries and continental Europe (for heating and other direct uses). A few include:

- Geothermal potential in regions of Spain
- Geothermal field locations
 and potential in Turkey
- Australia potential areas for enhanced geothermal systems





• In 2018, IRENA and the IGA plan to pilot an initiative to support Geosurveys and relevant authorities in four countries in inventorying existing geothermal fields and in classifying resource estimates based on the UNECE Guidelines for geothermal classification and reporting

• The initiative would support in adding **new data** from these countries in the **Global Atlas** for use in prospecting





IRENA PROJECT NAVIGATOR

Access practical information, tools and guidance for the development of bankable renewable energy projects



- A learning section with easy-to-access knowledge materials
- An interactive workspace to develop projects and track progress
- An online search engine to find renewable energy funding sources





Utility-scale Onshore















Solar PV

Wind

Microgrids

Power

Hydropower







IRENA Project Navigator platform





Learning Section

- » Project development and technical guidelines
- » Best practices
- » Examples & Case Studies

Start a Project

- » Personal and private workspace
- » Tools, templates, checklists
- » Stepwise approach
- » Track your progress
- » Export documents

Financial Navigator

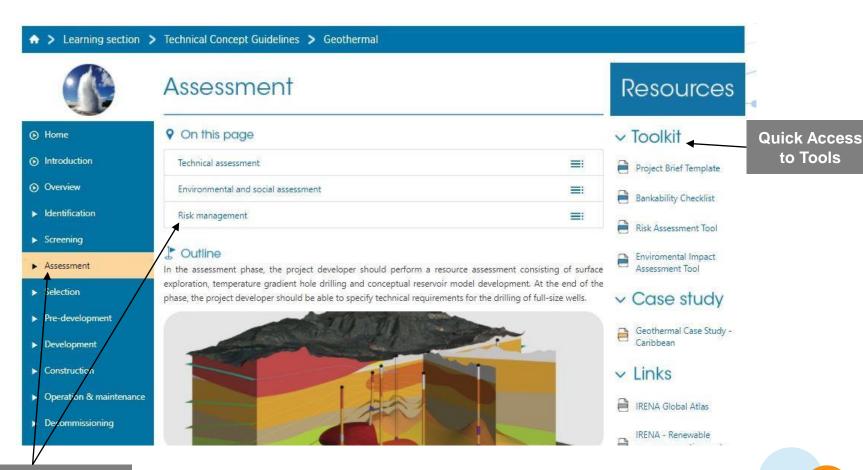
- » Information on multiple funds
- » Filter by region and technology
- » Information includes fund types, requirements and contact details among others.







Technical Concept Guidelines



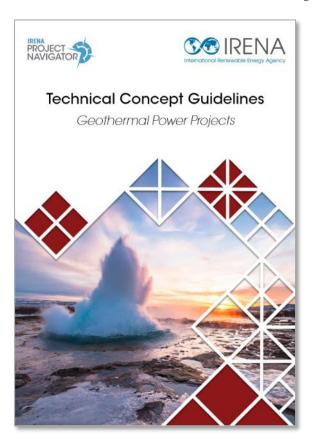






Project Navigator Geothermal module

Online project facilitation tool available to understand how to enhance the bankability of geothermal power projects



- State-of-the-art project guidance developed by IRENA with industry experts
- Scope
 - Project planning
 - Technical feasibility
 - **Economic & Financial indicators**
 - Bankability requirements

Main features

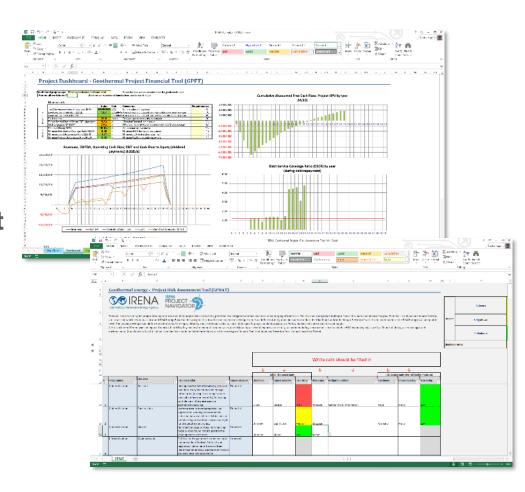
- 9 project phases with systematic guidance on activities and deliverables
- Project documents, templates, case studies and analytical tools
- Project evaluation model (excel)





Tools & Templates

- Case study
- Project evaluation model
- Risk assessment tool
- Environmental assessment tool
- Contractual fact sheets
- Site evaluation tool
- Bankability checklist
- Project brief template







Technical Concept Guidelines



SUSTAINABLE ENERGY MARKETPLACE



To scale up renewable energy and energy efficiency investments a virtual market place is created with the objective to support:

- ✓ initiation,
- ✓ development and
- ✓ financingof sustainable energy projects

Ву:

- Improving the transparency of the market
- Offering relevant tools and databases for market players
- Supporting and facilitating projects in the development stage







Funding offered for renewable energy projects in developing countries

1. What is the Facility?



 Collaboration between IRENA and the Abu Dhabi Fund for Development.





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

2. Access funding



The call for proposals for the sixth cycle opened on 16 November 2017 with a deadline of 15th February 2018.

Eligibility

- Members of IRENA, Signatories or States in Accession and developing countries on the OECD "DAC List of ODA Recipients". Preference is given to IRENA members in the process. Eligible country list accessed on website.
- Renewable energy as defined in the Statute of IRENA and tried and tested technologies: all forms of energy produced from renewable sources in a sustainable manner which include inter alia bioenergy, geothermal energy, hydropower, ocean energy, solar energy, and/or wind energy.
 - Projects must be able to provide the following in the selection process:

Government
Guarantee for the
ADFD loan

Technical,
economic and
financial
feasibility study

Positive development impacts

3. Funding offer

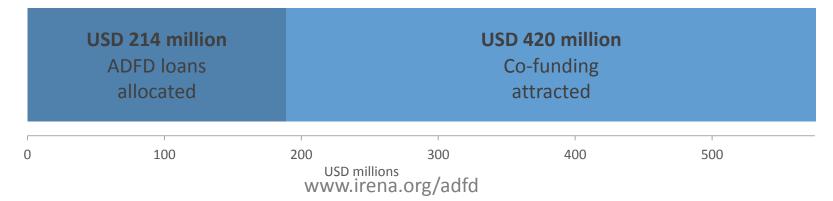


- USD 50 million available in each cycle.
- USD 5-15 million ADFD loans for each project, covering up to 50% of the project costs. Remainder must be cofinanced.
- 1-2% loan rates. 20 years loan period including 5 years grace period. Loan rates that apply to your country are on eligible country list online.



3.6 MW solar mini-grid project in Burkina Faso receiving USD 10 million selected in the third cycle.

So far, over five annual funding cycles USD 630 million mobilized including:



4. Selection process





Panel of Experts

Technically evaluate and score projects – Expert considerations and scoring system all available online.



Advisory Committee

Strategic considerations of geographic spread, technology diversity and national priorities of country where project is taking place.



ADFD

Final selection from recommended list from Committee.

ADFD requires a government guarantee letter (templates available online), full feasibility study (requirements for this are available online) and positive development impacts.

4. Selection process



First phase

Second phase



16 Nov 2017 – 15 Feb 2018

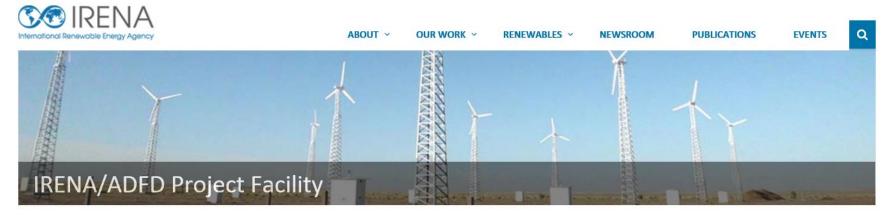
Applicants submit executive project summaries online

Shortlisted projects called to submit a full proposal online including a full feasibility study and government guarantee letter Projects shared with a list of 197 funding contacts.

www.irena.org/adfd

5. How to apply - online





Accessible finance for renewable energy projects in developing countries

The International Renewable Energy Agency (IRENA) and the Abu Dhabi Fund for Development (ADFD) have collaborated on a joint Project Facility to support replicable, scalable and potentially transformative renewable energy projects in developing countries. ADFD committed USD 350 million in concessional loans, over seven annual funding cycles, to renewable energy projects recommended by IRENA.



funding cycle opens between 16 November 2017 and 15 February 2018.

Apply here



"The IRENA/ADFD Project Facility has identified path breaking renewable energy projects providing sustainable and affordable energy for those who need it most."

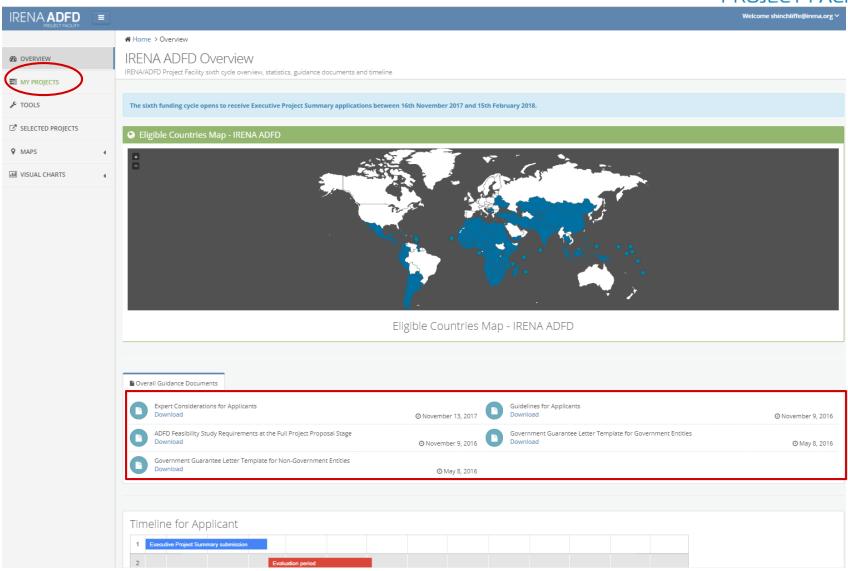
Quick Links

adfd@irena.org

Overview	
Project Facility	
Apply	
Selected Projects	
Announcements	
FAQs	
Register	
Login	

Dashboard





Online application form



Lead organisation details		
Type of organisation*	-Please Select- ▼	
Short description of organisation*	4	*
Last turnover (millions USD)*		
Number of employees*	Year	of establishment*
Other applicant organisation / partners*		
Government entity details		
Contact information of the government entities involved:	Contact information of the government entity supporting t project/project beneficiary - may be the same as the lead organisation:	Contact information of the Ministry that deals with the borrowing affairs of the country:
Name of government entity*	e.g. Ministry of Energy	e.g. Ministry of Finance
Division / Department*		
First name*		
Last name*		
Title*		
Job title*		
Phone (direct)*	C	<u>t</u>

6. IRENA Tools

SUSTAINABLE

ENERGY MARKETPLACE

Supporting Energy Transition



Success stories Country profiles

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GlobalAtlas

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PROJECT NAVIGATO

SUSTAINABLE **ENERGY MARKETPLACE**

Evaluate, technical assistance



Thank you for your attention.