IRENA’s Project Facilitation Tools

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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
The Global Atlas for Renewable Energy:
IRENA’s renewable energy prospector

www.irena.org/globalatlas
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

NEW: Obtain project development guidance with 50+ tools for:

- Utility-scale Solar PV
- Onshore Wind
- Woody Biomass
- Mini/Microgrids
- Geothermal Power
- Solar Home Systems
- Small Hydropower

www.irena.org/navigator
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**

**Assessment**

In the assessment phase, the project developer should perform a resource assessment consisting of surface exploration, temperature gradient hole drilling and conceptual reservoir model development. At the end of the phase, the project developer should be able to specify technical requirements for the drilling of full-size wells.

**Resources**

- **Toolkit**
  - Project Brief Template
  - Bankability Checklist
  - Risk Management Tool
  - Environmental Impact Assessment Tool

- **Case study**
  - Geothermal Case Study - Caribbean

- **Links**
  - IRENA Global Atlas
  - IRENA - Renewable
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
To scale up renewable energy and energy efficiency investments a virtual market place is created with the objective to support:

✓ initiation,
✓ development and
✓ financing

of sustainable energy projects

By:

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

http://irena.org/marketplace
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**

[www.irena.org/adfd](http://www.irena.org/adfd)
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 co-financed.
- **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.

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

<table>
<thead>
<tr>
<th>USD 214 million</th>
<th>USD 420 million</th>
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<tr>
<td>ADFD loans</td>
<td>Co-funding</td>
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<tr>
<td>allocated</td>
<td>attracted</td>
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</table>
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

- Applicants submit executive project summaries online

Second phase

- 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

End Dec 2018

May 2018 – Jun 2018

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.

16 Nov 2017 – 15 Feb 2018

Applicants submit executive project summaries online
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.

6th funding cycle opens between 16 November 2017 and 15 February 2018.

“The IRENA/ADFD Project Facility has identified path breaking renewable energy projects providing sustainable and affordable energy for those who need it most.”
The sixth funding cycle opens to receive Executive Project Summary applications between 16th November 2017 and 15th February 2018.

Eligible Countries Map - IRENA ADFD

General Guidance Documents
- Expert Considerations for Applicants
  - Download
  - November 13, 2017
- ADFD Feasibility Study Requirements at the Full Project Proposal Stage
  - Download
  - November 9, 2016
- Government Guarantee Letter Template for Non-Government Entities
  - Download
  - May 8, 2016
- Guidelines for Applicants
  - Download
  - November 9, 2016
- Government Guarantee Letter Template for Government Entities
  - Download
  - May 8, 2016

Timeline for Applicant
1. Executive Project Summary submission
2. Evaluation period
# Online application form

## Lead organisation details

<table>
<thead>
<tr>
<th>Type of organisation*</th>
<th>-Please Select-</th>
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<tr>
<td>Short description of organisation*</td>
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<tr>
<td>Last turnover (millions USD)*</td>
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<tr>
<td>Number of employees*</td>
<td>Year of establishment*</td>
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<tr>
<td>Other applicant organisation / partners*</td>
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## Government entity details

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<th>Contact information of the government entities involved:</th>
<th>Contact information of the government entity supporting the project/project beneficiary - may be the same as the lead organisation:</th>
<th>Contact information of the Ministry that deals with the borrowing affairs of the country:</th>
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6. IRENA Tools

- Project concept
- Pre-feasibility
- Deployment
- Investor ready
- Feasibility

- Project pipelines
  - Corridors, RE
  - Roadmaps, Readiness Assessments

- Success stories
- Country profiles

- Site characterization
- Global Atlas

- Assistance to financial closure and debt facility

- Bankable project development guidelines

- Evaluate, technical assistance

www.irena.org/adfd
Thank you for your attention.