

IRENA

Project Facilitation Tools

**Gurbuz Gonul, Acting Director
Country Support and Partnerships, IRENA
22 September 2015**

1. Sustainable Energy Marketplace
2. Project Navigator
3. IRENA / ADFD Project Financing Facility

Virtual Marketplace for Sustainable Energy Projects



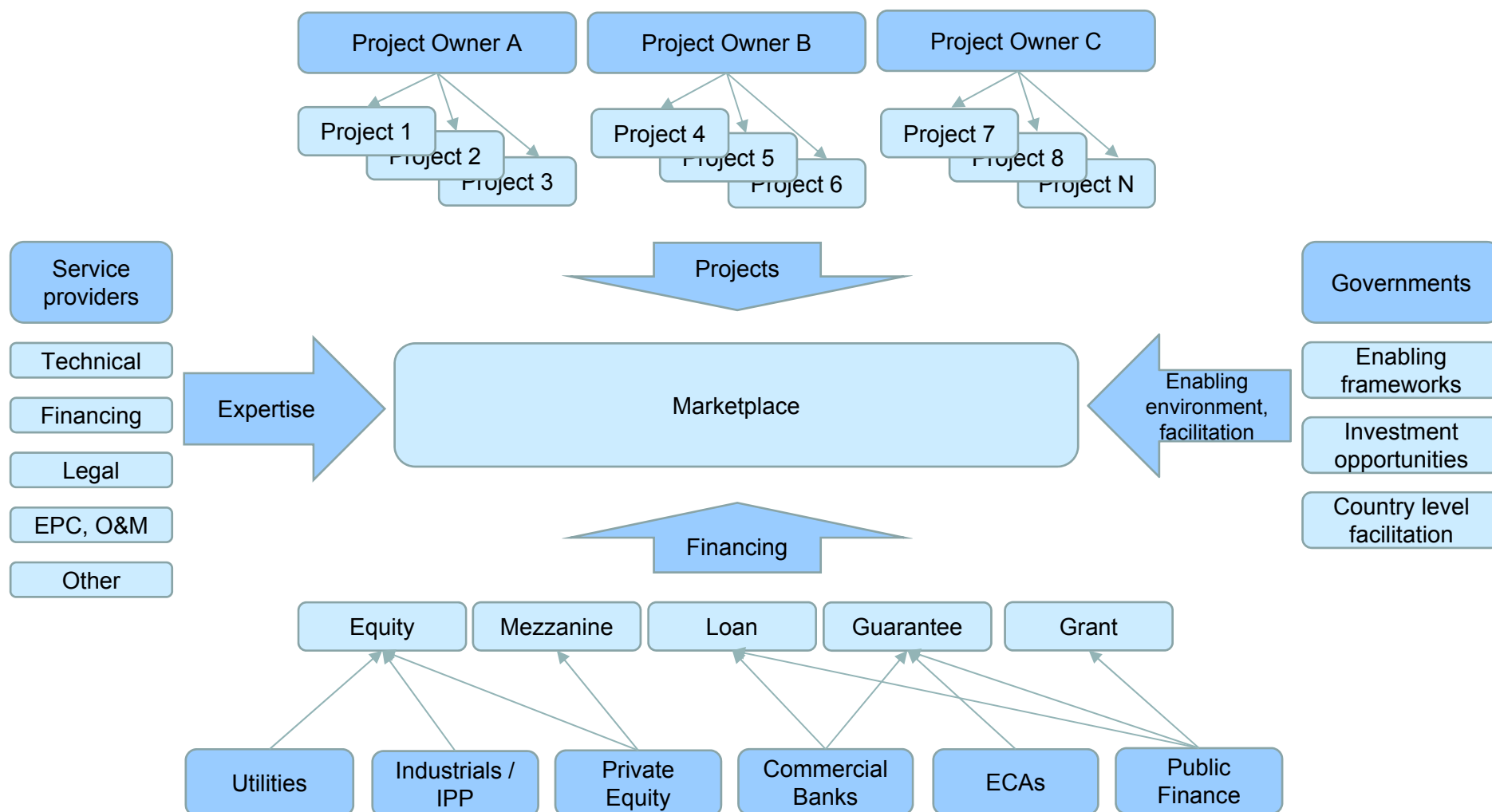
To scale up renewable energy and energy efficiency investments a virtual marketplace is created with the objective to support:

- ✓ initiation,
 - ✓ development and
 - ✓ financing
- of sustainable energy projects

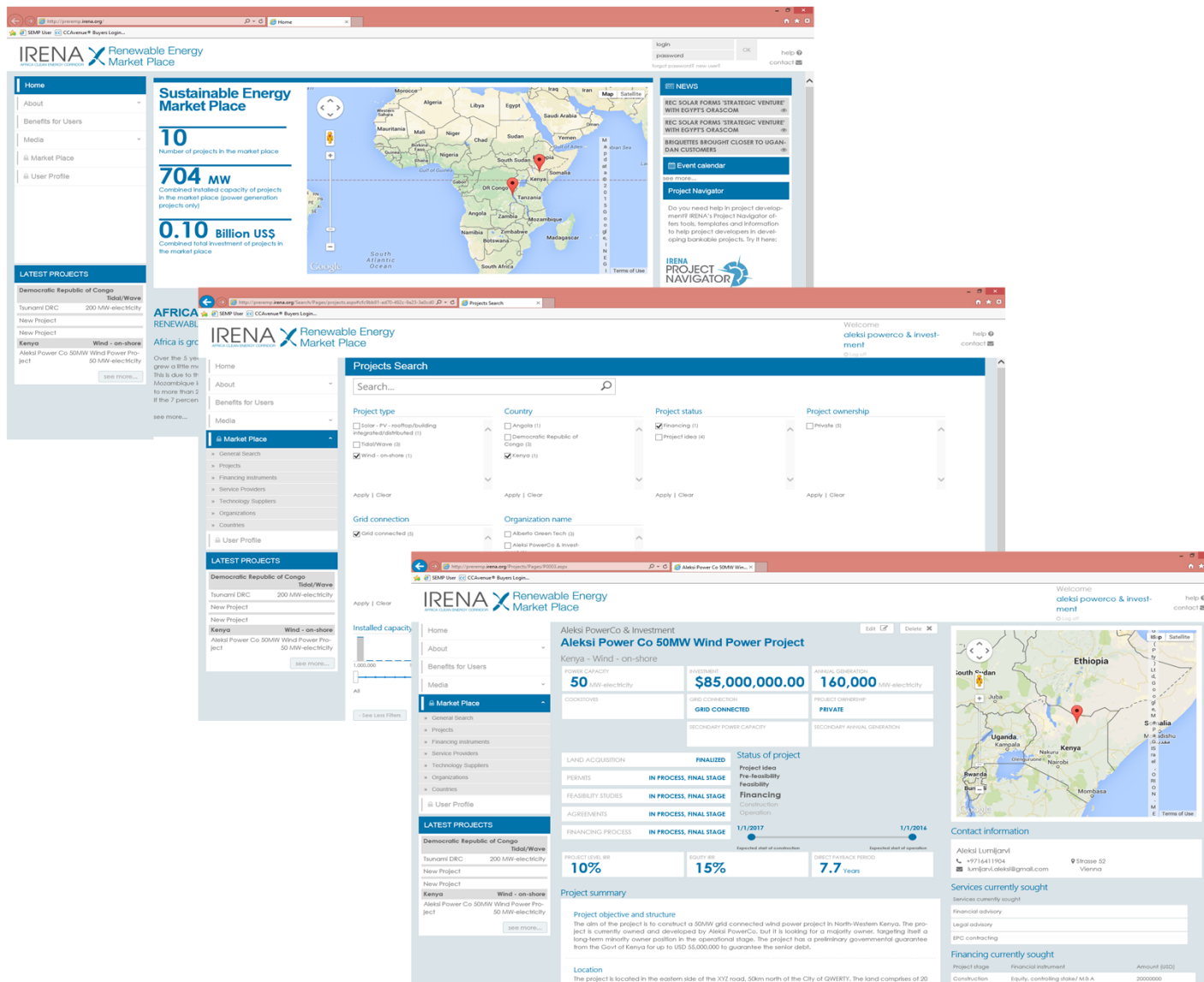
By:

- *Improving the transparency of the market*
- *Supporting projects at the development stage*
- *Offering IRENA's tools and databases for market players*

Sustainable Energy Marketplace (SEM)

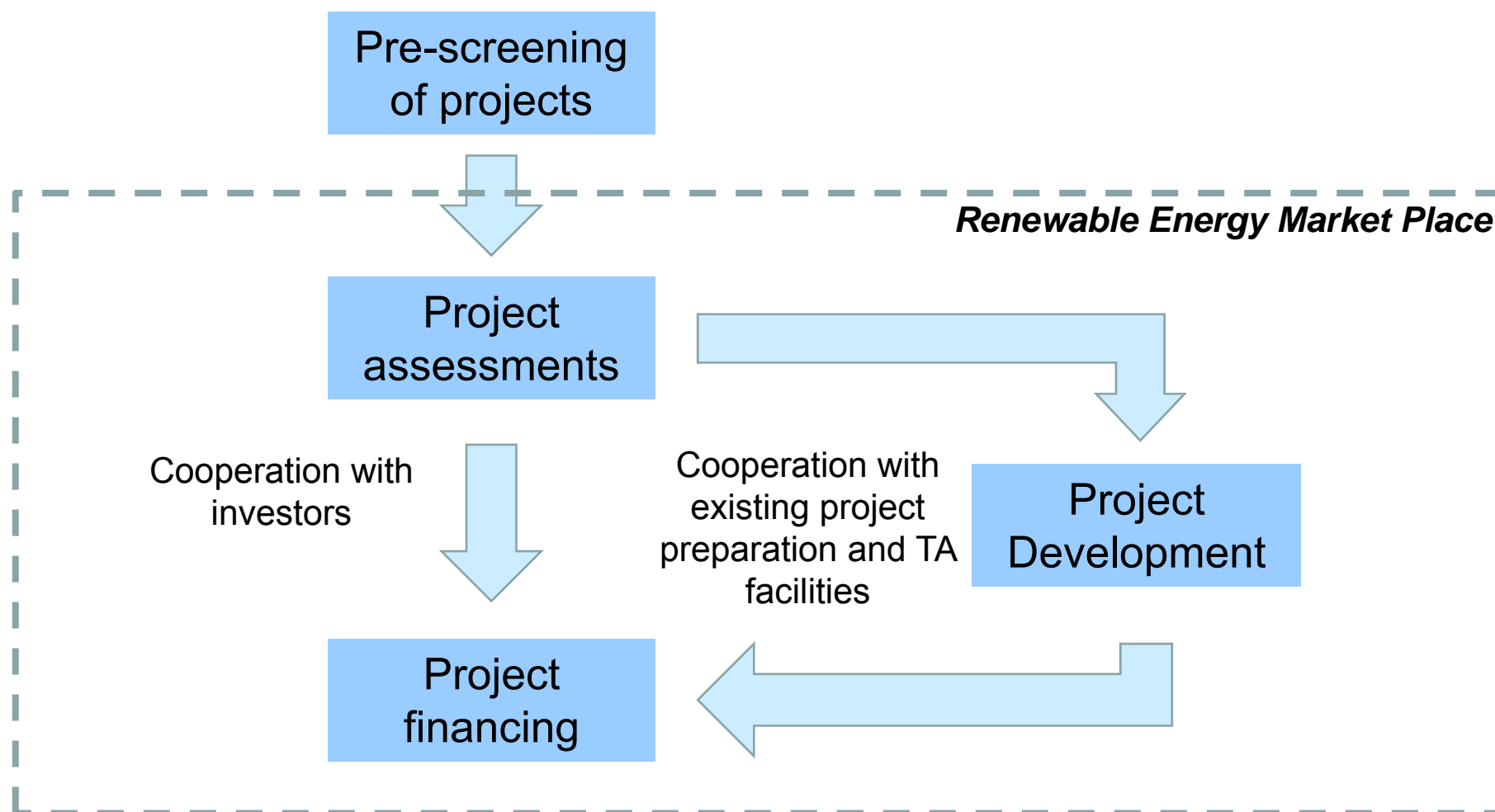


Rich source of information



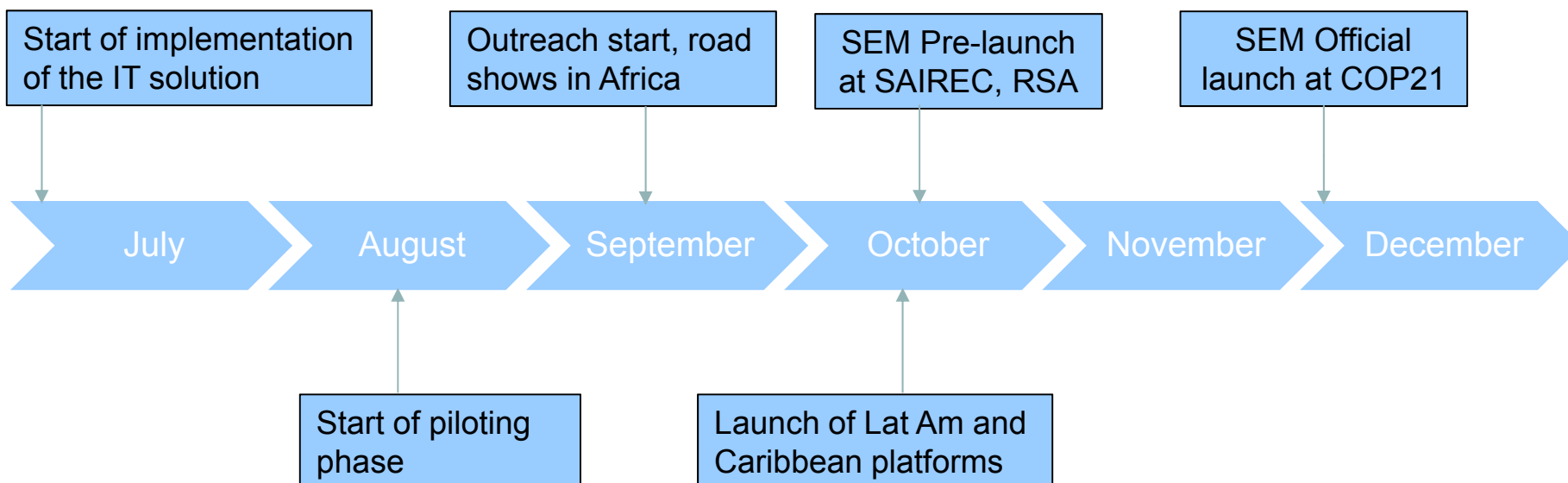
The screenshot displays the IRENA Renewable Energy Market Place website. The main header includes the IRENA logo and navigation links. The left sidebar contains a menu with options like Home, About, Benefits for Users, Media, Market Place, and User Profile. The main content area features a 'Sustainable Energy Market Place' section with statistics: 10 Number of projects in the market place, 704 MW Combined installed capacity of projects in the market place (power generation projects only), and 0.10 Billion US\$ Combined total investment of projects in the market place. Below this is a map of Africa showing project locations. The 'LATEST PROJECTS' section lists projects like 'Democratic Republic of Congo' and 'Kenya'. The 'PROJECTS SEARCH' section provides filters for Project type, Country, Project status, Project ownership, Grid connection, and Organization name. The 'ALEKSI POWER CO 50MW WIND POWER PROJECT' details are shown, including project capacity (50 MW-electricity), investment (\$85,000,000.00), and project ownership (Private). The project summary includes a project objective and location details.

Facilitation Process in the Marketplace



Key Milestones in 2015

Stakeholder engagement at workshops, side events, etc.



1. Sustainable Energy Marketplace
2. Project Navigator
3. IRENA / ADFD Project Financing Facility

What is the IRENA Project Navigator?

The challenge of RE projects

- » Failing to prove project bankability to funding institutions
- » Insufficient knowledge on project proposal development
 - Higher project development costs
 - Higher risk of project failure

Objective to increase the bankability of projects

- » Strengthening the project development base
- » Enhancing the quality of project proposals
- » Reducing costs and mitigating risks through proper planning and efficient use of funds
- » Facilitating effective implementation

Scope

- » All RETs
- » Different finance types: grants, loans, equity
- » Project sizes: from individual use to utility scale projects
- » Global: all geographical regions



Project Navigator Platform

www.irena.org/navigator

Home

Learning section

Start a project

Financial Navigator

My account

Sign out

Welcome to the IRENA Project Navigator!



- To learn more about the renewable energy project development process and to develop bankable project proposals, please enter the Project Navigator
- When looking for funding opportunities, browse the IRENA Financial Database using the Financial Navigator
- If you are a project developer, you can create a workspace online and track your project development progress.

Choose from the Quick Access tiles below!

News

13 May, 2015

"Introduction to the IRENA Project Navigator" Webinar

5-6 May, 2015

2nd Project Navigator Workshop, Ulaanbaatar, Mongolia

22 April, 2015

Project Navigator Launched

Learning section

Learn about project development

Start a project

Create a project workspace

Financial Navigator

Find funding opportunities

Learning Section

Project Development Guidelines

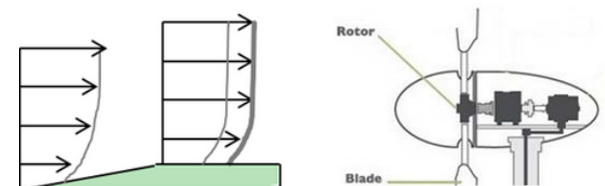
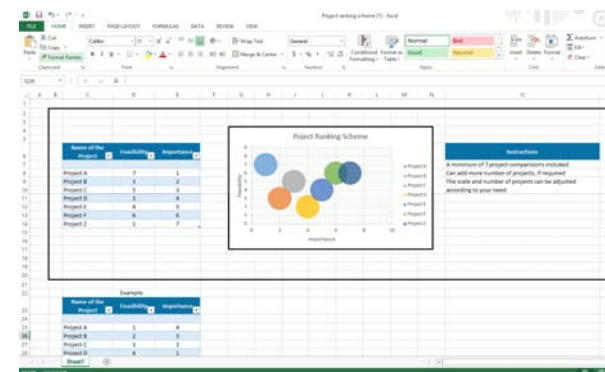
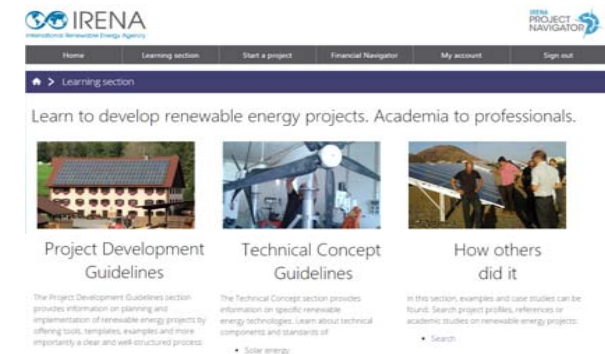
- » Clear project development process
- » Detailed definitions
- » Tools
- » Key Actions
- » Control questions and deliverables
- » Contract templates

Technical Guidelines

- » Land and resource assessment
- » Technology selection and sizing
- » Logistical aspects
- » Lessons learned from previous projects

How others did it

- » Find examples
- » Case studies
- » Templates



Start a Project

Create your own workspace

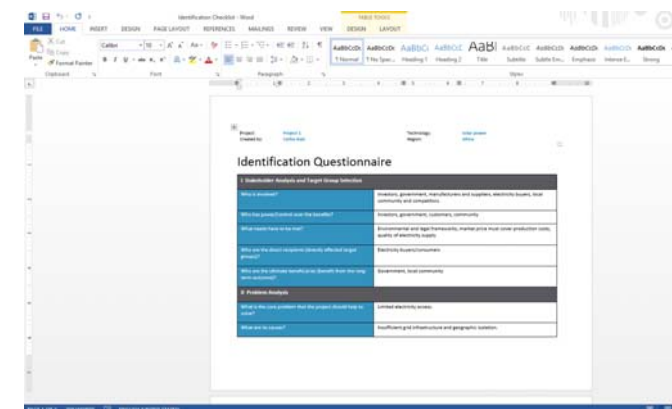
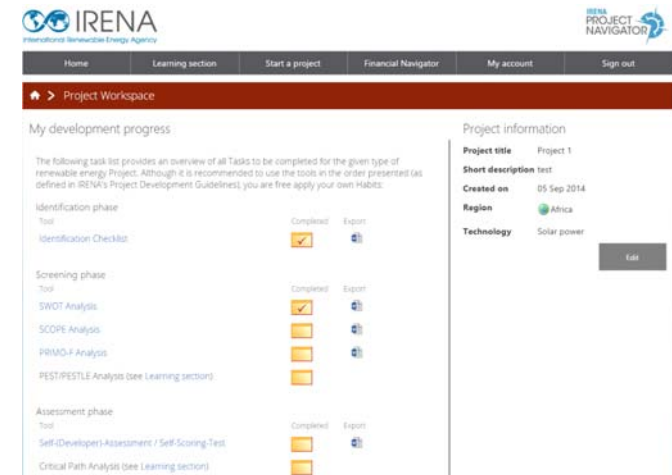
- » Password protected workspace
- » Interactive tools
- » Store up to three projects

Follow a clear project development process

- » Clear objectives
- » Interactive tools
- » Control questions to ensure that nothing important has been overlooked

Track your progress

- » Store your data
- » Keep track of your project
- » Export and download reports



Financial Navigator



Find a fund that suits your project

The Financial Navigator is a detailed database of funds that actively provide finance to renewable energy technology projects.

It increases the transparency of the funding process and helps project developers identify potential funding opportunities

The available information includes:

- » Geographical Coverage
- » Technological Coverage
- » Type of fund
- » Size
- » Funding requirements
- » Administrating organization
- » Contact details

Financial Navigator > Funding details: Strategic Climate Fund (including Scaling Up Renewable Energy Program (SREP))		
General information		
Name of fund Strategic Climate Fund (including Scaling Up Renewable Energy Program (SREP))		
General description The Scaling Up Renewable Energy Program in Low Income Countries (SREP) is a targeted program of the Strategic Climate Fund (SCF), which is one of two funds within the framework of the Climate Investment Funds (CIF). The SREP was established to scale up the deployment of renewable energy solutions and expand renewables markets in the world's poorest countries. It aims to pilot and demonstrate the economic, social, and environmental viability of low carbon development pathways.		
Geographical coverage Armenia Yemen Maldives Mongolia Nepal Ethiopia Kenya Liberia Mali United Republic of Tanzania Honduras Solomon Islands Vanuatu		
Details on geographical coverage -		
Technology coverage Solar power Wind power Biomass Geothermal power Hydropower		
Details on technology coverage Solar, wind, bio-energy, geothermal, and small hydro technologies (less than 10MW) Check annual report from November. Analysis of portfolio. In Africa: Liberia mini-grid technologies to be confirmed. Mali: mini hydro and solar. Kenya: Geothermal. WB was supposed to develop mini-grid. Wind in Ethiopia. Tanzania: geothermal. Technology agnostic.		
Type of fund This fund can only be accessed indirectly by project developers. SREF provides co-financing which is channeled	Size of grant Around 20-50 M USD per country. Though funding is determined on a project level. (Usually 2-3 projects/country)	Core funding information
		Administering organisation(s) African Development Bank (AfDB)
		Funding organisation(s) Australia/Canada, Denmark/Switzerland, Germany/Spain, Japan/Korea, Netherlands/Sweden, Norway, United Kingdom and United States
		Link Website
		Total fund size (M USD equivalent) 340
		Comments on total fund size Country allocations on average have been 15 M USD (envelopes) for African countries For project preparation grants there are no caps under SREP. For example, Mali received 2.2 M USD for a feasibility study.
		Initial launch of the programme or fund 2008
		Contact See multilateral development bank

Navigator - Present and Future

Present

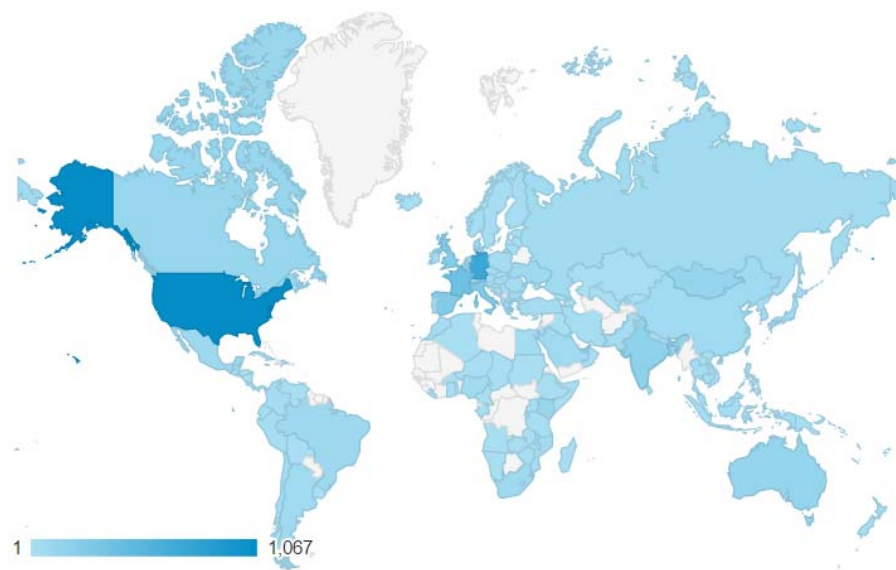
- Launched 22 April 2015
 - 1400+ registered users
 - From 149 countries

Next Steps

- Technical Concept Guidelines
 - Rooftop PV
 - Off-/Mini-grid applications
 - Small Hydro
 - Bioenergy
- Workshops / Regional adaptations
- Pilot studies with member countries
- Continuous improvement of the tool

Visit us: www.irena.org/navigator

Contact: navigator@irena.org



SEM and Navigator as Part of IRENA's Value Added in Regional / Thematic Initiatives



1. Sustainable Energy Marketplace
2. Project Navigator
3. IRENA / ADFD Project Financing Facility

IRENA/ADFD Financing Facility

projects selected for funding



IRENA

International Renewable Energy Agency

Total

USD 98 million loans allocated

USD 146 co-finance

Mauritania

1 MW Wind (mini-grid)

USD 5 m

1 MW Hybrid (Solar, wind, hydro) mini-grid

USD 6 m

Cuba

10 MW Solar (on-grid)

USD 15 m

Iran

5 MW Geothermal (mini-grid)

USD 6 m

St. Vincent and the Grenadines

15 MW Geothermal (on-grid)

USD 15 m

Sierra Leone

6 MW

Solar

(on-grid)

USD 9 m

Samoa

3 MW Bio-energy (on-grid)

USD 7 m

Ecuador

4MW Hydro (mini-grid)

USD 5 m

Mali

4 MW Solar PV

diesel (mini-grid)

USD 9 m

Maldives

1 MW Waste to energy (on-grid)

USD 6 m

Argentina

3 MW Hydro (mini-grid)

USD 15 m

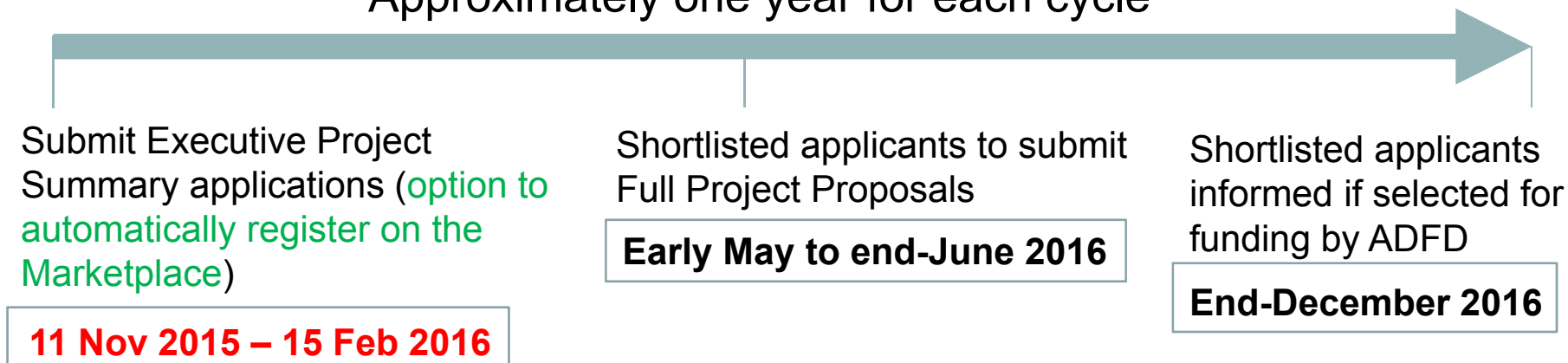
First cycle projects = USD 41 million loans, USD 44 million co-finance

Second cycle projects = USD 57 million loans, USD 102 million co-finance

Note: third cycle results will be announced in January 2016 at the IRENA Assembly

Fourth cycle

Approximately one year for each cycle



See www.irena.org/adfd for details on how to apply

Eligibility

- Projects can only be submitted from countries that are Members of IRENA (or Signatories of the Statute, or States in Accession).
- Countries must be on the “DAC List of ODA Recipients” from the Organisation for Economic Co-operation and Development (OECD).

Loan conditions for all cycles

- Up to 50% of project costs covered by ADFD loans. The rest must be co-financed.
- USD 5-15 million ADFD loans for each project.
- 1-2% interest rates, 20 year loan period including a 5 year grace period.

Thanks you.

www.irena.org

Renewable Energy Project Development Challenge



- Higher project costs and financial risks
 - ✓ Conditions inherent to certain countries/regions
 - ✓ Project sponsors / developers often lacking the know-how to complete a bankable project proposal
- Non-transparent fund securement process and financing options



➔ Strengthen the project development base, enhance the quality of proposals and increase their bankability to attract better financing conditions