

Creating an attractive investment environment for sustainable energy solutions

15 January 2020 11:00-12:30











Outline

[11:05 – 11:15] Introduction (10mins)

[11:15 – 12:25] Creating an attractive investment environment

- [11:15-...] Step 1. Defining the market (10mins)
- [] Step 2. Gap analysis assessing key risks & underlying barriers to RE development (30mins)
- [] Step 3. De-risking investments identifying potential enablers (30mins)

[12:25 – 12:30] Summary of key take-aways (5 mins)

Objectives of the session

By the end of this session, you will be able to:

- Explain why investment risks & barriers should be analysed
- Identify key risk categories and underlying barriers to RE investments in your country environment
- Explain the role of policy and financial de-risking measures
- Assess the applicability of different types of investment enablers

Introduction

- The roadmap: Where do we stand?
- Rationale for analysing the investment environment

Sustainable Integration Roadmaps for Energy and Transportation (SIRET)



The roadmap: Defining the preferred scenario

- What have we learned so far from technical (I) and socio-economic/costbenefit analysis (II)?
- Are there additional considerations that speak in favour of a *Plan B*?

Rationale: Risks increase the cost of capital



Rationale: Policy & financial enablers can de-risk the investments



Analysis of the investment environment

- **Step 1**. Defining the market
- Step 2. Gap analysis assessment of key risks & underlying barriers to RE development
- Step 3. Identification of potential enablers

Step 1. Defining the market



Defines the level of development of each sector / directs financial flows Defines the level of decision making and the availability of policy tools Defines the scale of solutions/investments required and attractiveness to private sector (and international cooperation) actors Defines the key actors and approaches to move from the current to the future market

Step 2. Gap analysis. Major risk categories



Step 2. Which risk categories are the most prominent in your economy?



Step 2. Survey

Go to: www.mentimeter.com

ID: ...

In the market context of your economy... (Yes / No / Not sure)

- Is there a national long-term energy sector strategy?
- If so, does the strategy include explicit targets for renewable energy?
- Is there a resistance by local communities towards the development and use of renewable energy sources?
- Do universities and vocational training institutions offer training in renewable energy technologies?
- Do local banks offer financing for sustainable energy projects?
- Are there subsidies in place to support the development and use of fossil fuel-based energy?









Step 2. Group discussion

Instructions

- Two groups
- Select a rapporteur
- Time available: 20mins

Questions

- Which of these risks/barriers are **most pronounced** in your countries?
- How does the **island context** elevate/reduce these risks & barriers? Are there additional risks that are applicable in this context?

Step 3. Identification of potential enablers

Policy & regulatory derisking instruments

- Policy & long-term targets
- Institutional strengthening
- Quality/technical standards
- Market information
- Awareness raising
- Human resource capacity development

Financial & fiscal derisking instruments

- Administratively set pricing instruments (FIT/FIP)
- Competitively set pricing instruments (auctions)
- Tax exemptions
- Grants/subsidies
- Public loans/equity
- Public guarantees

ENABLER DESCRIPTION / EXAMPLE Provide clear direction and signals to consumers and industry by developing long-term national renewable energy strategy and policies. Formulate Policy & long-term Policy & regulatory instruments realistic and transparent targets by tier, technology and demographics. targets Policies should clearly outline lines of responsibility, as well as monitoring and review processes and timelines. Public sector awareness raising and building political will of legislators; Institutional institutional restructuring (e.g. establishing streamlined and consistent licensing and customs processes); institutional capacity building of ministries strengthening and agencies, establishment/strengthening of the energy statistics office. Transparently develop balanced technical/quality requirements for energy **Quality/ technical** installations; develop certification and standards for hardware based on standards internationally recognised standards. Ensure review and active enforcement.

ENABLER

Policy & regulatory instruments

DESCRIPTION / EXAMPLE

Government support to improve information availability, knowledge exchange and network effects: performing initial resource inventory and mapping Market information (including through spatial planning), developing grid extension plans, sponsoring academic studies; making all information publicly available and easily accessible, supporting dissemination. Implementing active publicity, media and awareness campaign targeting key stakeholder groups. Developing and coordinating ongoing stakeholder Awareness raising dialogues and workshops between policy makers, NGOs, communities, community leaders and end users. Supporting the establishment of industry associations and initial industry conferences. Support programmes to develop competitive, skilled labour market in Human resource renewable energies (all roles). Develop apprenticeships, certificates and capacity education programmes to build skills in utility-scale renewable energy/minidevelopment grids/SHS (engineering, installation, marketing, business management).

ENABLER

Administratively set pricing instruments (FIT/FIP)

Competitively set pricing instruments (auctions) Ensuring guaranteed access and a fixed tariff for sustainable energy producers through a feed-in-tariff (FIT) and PPA tendering, including well-designed standard PPA. Alternatively, implementing a feed-in-premium scheme (FIP), whereby electricity is sold on the spot market and producers receive a premium on top of the market price.

DESCRIPTION / EXAMPLE

Reserving a share of the electricity market and providing financial support for renewable energy producers through auctions and competitive tendering. In auctions, the price is the only criterion to be evaluated, while tenders may include additional criteria.

Tax exemptions

Removal of import tariff for renewable energy hardware; introducing VAT exemptions for RE businesses.

	ENABLER	DESCRIPTION / EXAMPLE
Financial & fiscal instruments	Grants/subsidies	Providing results-based grants to off-grid/mini-grid developers; offering an end-user per kWh subsidy addressing affordability concerns. Assessing fuel subsidies, phasing-out/down of subsidies, designing transfer programs to affected groups.
	Public loans/equity	Financial products (loans or equity) by the government and/or development banks to IPPs, transmission companies, mini-grid developers in gaining access to capital. The type of instrument, currency and level of concessionality of products may vary depending on specific circumstances.
	Public guarantees	Government (e.g. Ministry of Finance) letter of support for PPA payments to IPPs; development bank partial risk guarantee for PPA payments; public guarantees to commercial banks that are lending to the mini-grid operator.

Step 3. Enablers target specific risks & barriers. Example 1: Market risks for mini-grids

Mini-grids Mar

Market risks

What is the key risk?

What are the underlying barriers for this risk?

What policy instruments can mitigate/eliminate/transfer this risk?

What financial/fiscal instruments can mitigate/eliminate/transfer this risk?

Energy market risk

Market access: Limitations and inability, including due to government regulations, of mini-grid developers to access the electrification market

Establish a **clear regulatory approach** with two, co-existing regimes: (i) light-touch (no license) and (ii) comprehensive (licensed)

N/A

Step 3. Enablers target specific risks & barriers. Example 2: Financial risks for mini-grids

Mini-grids Financial risks

What is the key risk?

What are the underlying barriers for this risk?

What policy instruments can mitigate/eliminate/transfer this risk?

What financial/fiscal instruments can mitigate/eliminate/transfer this risk?

Financing risk - capital scarcity

Under-developed domestic financial sector: Low number of well-capitalised actors (debt, equity, insurance, pensions); lack of regulatory clarity on new types of financial products.

Liberalisation and introduction of competition into domestic financial sector; reforms to introduce and facilitate new types of finance (e.g., crowdfunding, peer-to-peer lending).

Public loans, guarantees and/or equity to mini-grid operators to address capital scarcity.

Step 3. Administrative effectiveness. Streamlining the permitting process



Solutions

- Streamline process and requirements
- Create one-window stop

Step 3. Designing the right 'policy mix'



Step 3. Group discussion. How to create a supportive policy environment?

Instructions

- Same groups
- Select a (different) rapporteur
- Time available:

Questions

- What policy/financial de-risking measures could address the three top risks/barriers identified in your previous discussion?
- Which of these measures can be implemented at the sub-national / local levels?

Step 3. Group discussion. How to create a supportive policy environment?



Step 3. What can local governments do?

Key levers:

- Policy design and implementation policy and financial de-risking measures
- Convening power
- Advocacy at the national level

Long-term targets and strategies

Capacity development of local workforce

Sensitisation of local financial institutions

Donor outreach and coordination

Seeking financing from global funds

Thank you!

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