





South Asia Regional Initiative for Energy Integration

Theme Presentation of Working Session-3

"Regional Investment Framework for Mobilising Investment in South Asia and South Asia Forum on Energy Investment (SAFEI)"

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Agenda

- Investment opportunities in sustainable energy infrastructure
- Challenges and risks for investment in greening the grid
- De-risking strategies
- Innovative financing mechanisms
- Work done by SARI/EI on Investment and Financing
- South Asia Investment Forum (SAFEI)
- Summary & Way forward
- Key areas for discussion











Investment opportunities in sustainable energy infrastructure and CBET

Private sector investment is possible in the development of regional sustainable energy infrastructure towards cross border electricity trade, in the following main areas:

Energy generation – Large hydro

Renewable energy

Cross border transmission lines

Development of large export-oriented projects in countries such as Nepal and Bhutan

Development of renewable energy power plants in countries such as India, Bangladesh, Pakistan, Afghanistan, Sri Lanka and Maldives

Investment in cross border lines, subject to policy and regulatory provisions in respective countries.







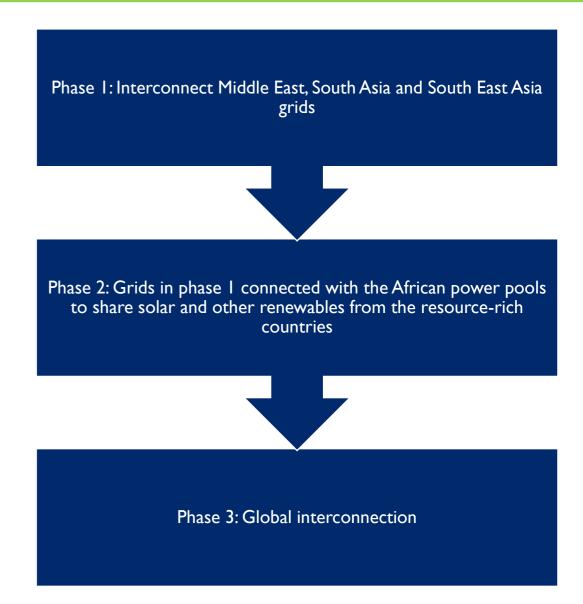






One Sun, One World, One Grid

- A case in example for the potential for investments in sustainable energy infrastructure is the One Sun, One World and One Grid (OSOWOG) Initiative. India has advocated for this idea of a trans-national electricity grid supplying solar power across the globe.
- According to the draft plan of the Ministry of New and Renewable Energy (MNRE), the ambitious OSOWOG will connect 140 countries through a common grid that will be used to transfer solar power. The vision behind the OSOWOG mantra is 'The Sun Never Sets' and is a constant at some geographical location, globally, at any given point of time.
- An interconnected grid under OSOWG would help all the participating entities in attracting investments in renewable energy sources as well as utilizing skills, technology, and finances. Further, the proposed integration would lead to reduced project costs, higher efficiencies, and increased asset utilization for all the participating entities.
- If the plan proceeds further, this will be one of the largest investment initiatives for sustainable energy infrastructure.









Challenges and risks for investment in greening the South Asia energy/power system

Across the region:

- ✓ challenges of low compliance to contracts:
- √ dynamic/volatile policy and legal regime;
- √ slow judiciary processes;
- ✓ Payment delays and payment risks as most utilities have poor financial position.

In countries such as Nepal:

- ✓ There is no concept of pure project financing.;
- ✓ A high level of collateral is required for accessing domestic financial market.
- ✓ Foreign exchange restrictions, limiting the developer's ability to repatriate earnings.

Cases such as that of Bhutan:

✓ At least a partial government ownership is preferred for large generation projects, instead of pure private sector IPPs. Political and Country Risk

- Concerns on political stability and change in law
- International developers/lenders demanding sovereign guarantees

Financing risks

- Capability of domestic finance markets
- Access to international markets

Construction / operation risk

- Long process for obtaining licenses for generation, clearances including environmental and social, causes prolonged delays
- · Land acquisition and resettlement process is slow

Policy & Regulatory Risk

- Retrospective application
- Lack of long-term clarity
- Limitation in forex repatriation

Off-taker Risk (Including payment risk)

- Utility's poor financial health is a major concern
- Payment default risk perceived to be high
- Delays in the financial closure due to prolonged discussions on the commercial arrangements (PPA)

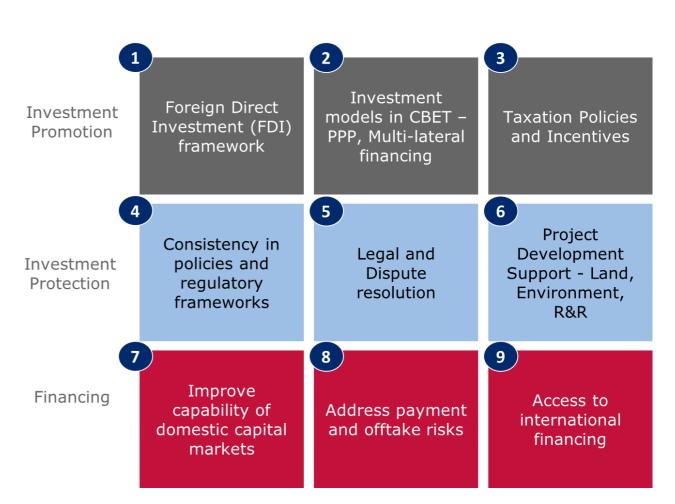






De-risking strategies

- Policy makers and regulators to offer more long term policy roadmaps,
 with long term certainty on offered benefits;
- Government and utilities to take steps to address payment default risks and breach of contract by Government owned energy utilities, through institutional and judicial reforms, and offering risk mitigation support directly, or with the support of development financing institutions;
- Develop institutional structure for faster legal and dispute resolution, including alternate dispute resolution;
- Provide one-stop services for assistance for projects to deal with multiple governmental entities/departments;
- Allow investors to access foreign exchange and international financial markets;
- Provide clear investment framework, taxation policies and incentives; and
- Support / promote the introduction of innovative financing instruments.









Innovative financing options

Access to bond market (including green bonds).

- ✓ Tends to be difficult for pre-construction and construction stage projects because investors typically require a few years of operational history
- ✓ Mainly worked as a refinancing option for operative renewable energy assets and asset pools.

Clean energy market mechanisms

- ✓ Certified Emission Reduction (CER) certificates in Europe and
- ✓ Renewable Energy Certificates (REC) in India.

Interest subsidy schemes in lieu of capital subsidy / grants from the government

- ✓ Long term support instead of one time support.
- ✓ Also does not impact competitiveness of equipment prices,

Yieldcos - a mechanism created around a project or number of projects that are producing predictable, stable cash flows.

- ✓ The cash-generating projects are grouped together and "spun off" into a separate, publicly traded company.
- ✓ This separates the risky projects, still under development from the de-risked projects already completed;
- ✓ This lets the parent company recoup capital, and provides investors a stable investment option.
- ✓ A larger fund with Governmental / multilateral backing, supporting projects indirectly through smaller funds.







Work done by SARI/EI on Investment and Financing

Regional Investment Framework and Guidelines for promoting investment in South Asian Power Sector & in Cross Border Electricity Trade Projects in South Asian Region



Comprehensive

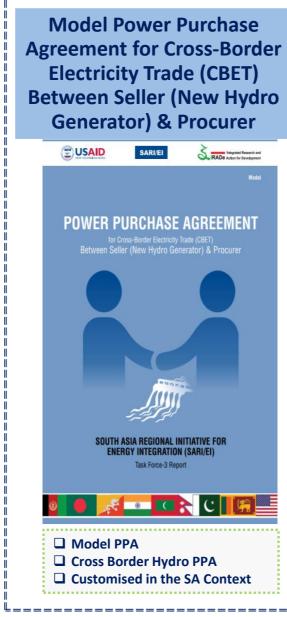


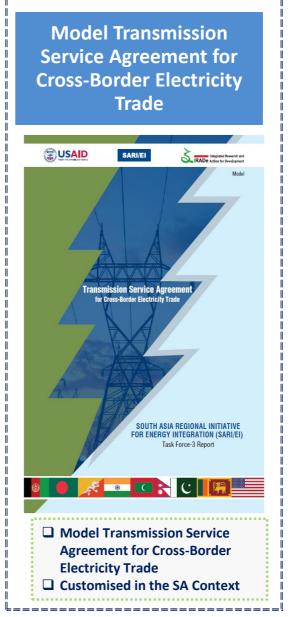


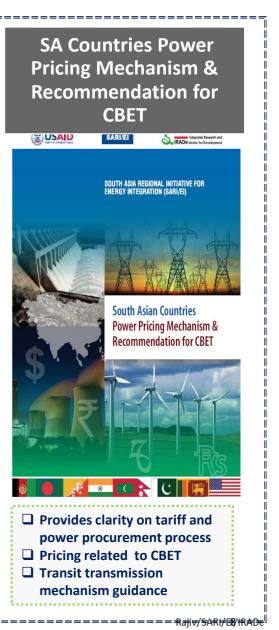
Regional Investment Framework and Guidelines for Promoting Investment in South Asian Power Sector and in Cross-Border Electricity Trade in South Asia

Task Force-I Report

- Recommends a Region Investment Framework.Suggest 7 concrete measure in the form of guidelines.
- ☐ Suggests Innovative financing and Risk Mitigation Instruments.
- ☐ Recommends to create Regional Investment Facilitation Forum



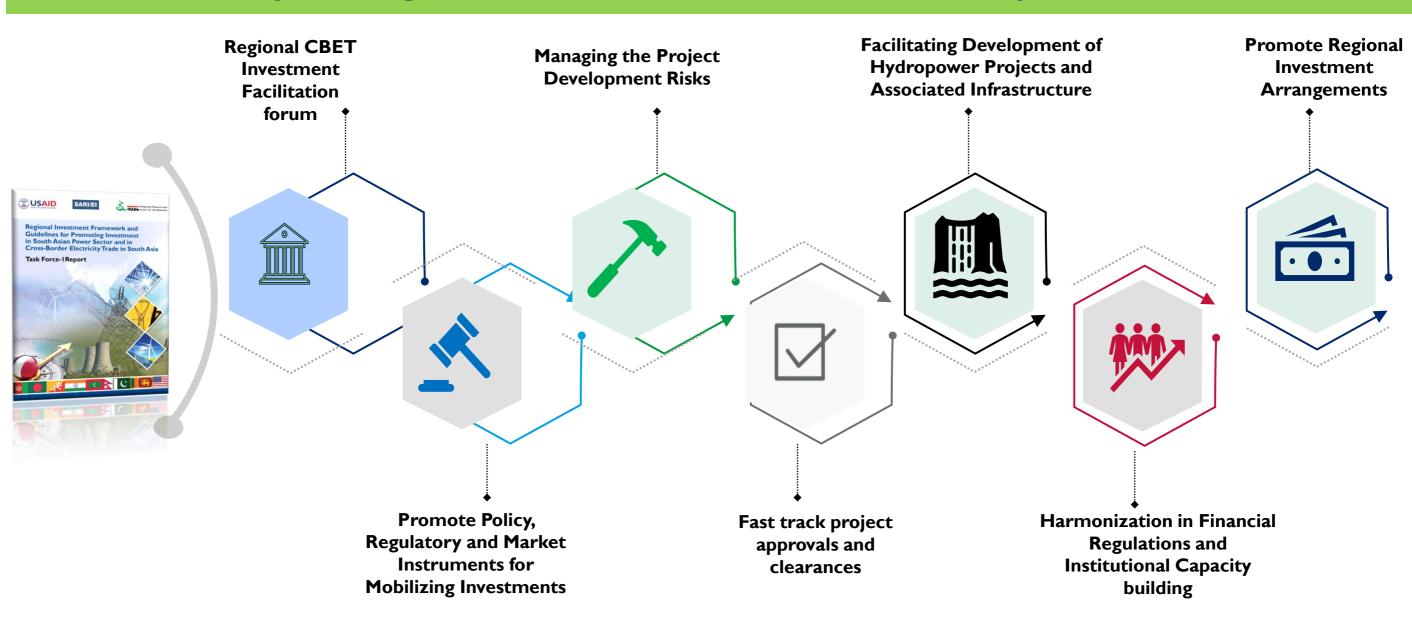








SARI/EI study on Regional Investment Framework – Key Recommendations







SARI/EI Initiative South Asian Forum for Energy Investment (SAFEI)





Vision

To be a world-class regional Centre of Excellence for providing a platform for Crosscutting Deliberations, Engage with investment and finance community and energy stakeholder in Exchange of ideas, Facilitation support on the Investment & Financial aspects of Regional Energy & Cross Border Energy Trade Infrastructure Development in the South Asia Region.







Summary & Way forward

De-risking strategies



Protect against payment and offtake risks, offer long term policy certainty, develop institutional structure for faster legal and dispute resolution, risk sharing under PPP contracts, access project finance, foreign exchange and international financial markets.



MIGA's political risk insurance, Partial Risk Guarantee Fund, Partial Credit Guarantee, Sovereign guarantees, World Bank's Guarantees program.

Innovative financing instruments



Bond markets, certificate mechanisms, interest subsidies, Yieldcos, Fund of funds etc.

Blend Financing, New Regional Funding Source-Creation of fund-of-funds

Regional Institutions



Regional support and facilitating institutional mechanisms such as a South Asia Forum for Energy Investment (SAFEI).





Key Areas For Discussion



1

How can policy makers adopt an optimum risk sharing between Government/utility and the private sector investment projects?

2

How can various risk mitigation strategies and instruments to be dealt with?

3

New Funding Sources?

4

What potential role can be played by regional institutional forum focusing on investment and fiancé such as SAFEI ?







Thank You





SARI/EI study on Regional Investment Framework - Regional Investment guidelines



Regional CBET investment facilitation forum

- Set-up regional investment forum
- Implement guidelines for investments
- * Develop regional mechanism for allocation of regional projects
- ❖ Identification and prioritization of regional investments through a regional body





Promote policy, regulatory and market instruments for mobilizing investments

- Setting up of rules, regulations and procedures for export-oriented projects
- Mobilize multilateral institutions and other low interest financing options
- Offer fiscal incentives like tax breaks to developers
- * Harmonize tax incentives and benefits across the region



Managing the project development risks

- Member countries to have guidelines for mitigating political risks such as nationalization
- * Regional guidelines for leveraging Instruments available with MFIs like MIGA
- · Provisions for dispute resolution through regional framework

Fast track project approvals and clearances

- * Member countries' government to provide single window clearance for necessary approvals and licenses
- Prepare inventory of processes to be followed in member countries for CBET project approvals, etc.
- Issues related to land, environment and R&R to be dealt with on priority basis





SARI/EI study on Regional Investment Framework - Regional Investment Guidelines





- Member countries to work for minimizing off-take risk and providing payment security mechanism for projects
- * Tap the green energy funds and multi-lateral funding agencies for project financing
- Policy initiatives like interest subvention, tax breaks
- Regulatory incentives to address tariff issues to improve competitiveness of hydro vis-å-vis other resources
- Develop Public Private Partnership (PPP) frameworks for regional projects







Harmonization in financial regulations and institutional capacity building

- * Harmonizing regulatory requirements for mobilizing investments within the region and overseas
- Evolve regional consensus on conflict management and dispute resolution framework amongst member countries
- Support deepening of capital markets in the region for mobilizing intra-regional investments in CBET
- Improving information exchange
- Institutional strengthening and capacity building of institutions in the member countries

Promote regional investment arrangements

- International and bilateral treaties and agreements to support investments
- Develop templates for contractual frameworks for cross border projects
- * Attract concessional financing, low cost financing from MFIs, Green Bonds, etc