

South Asia Regional Energy Partnership (SAREP)

Theme Presentation

on

South Asia Forum on Energy Investment (SAFEI) and International Best Practices-Project of Common Interest

Session-2 on Opportunities and Challenges for mobilizing investment in Regional Energy Projects in South Asia and Institutionalizing the SAFEI

Power Summit, 2023, 11.30-13.00 HRs, 18th April 2023, Hotel Hyatt Regency Kathmandu, Nepal

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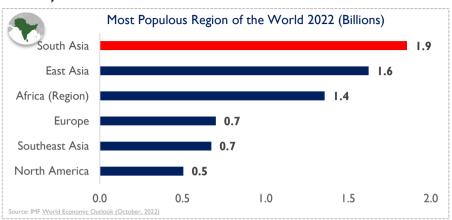


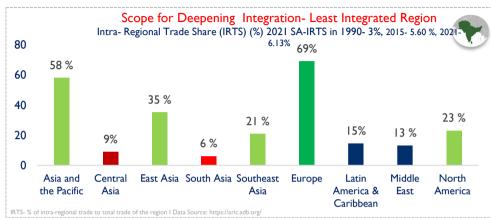


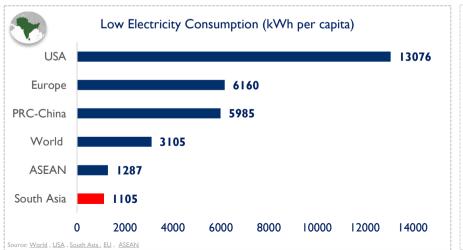


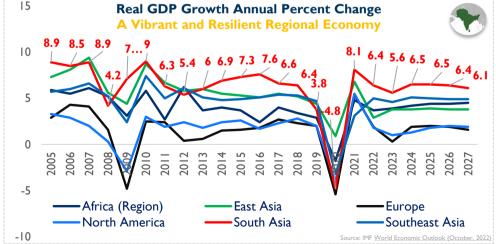
01.1

Overview of South Asia (SA): A Unique & Dynamic Region of the World

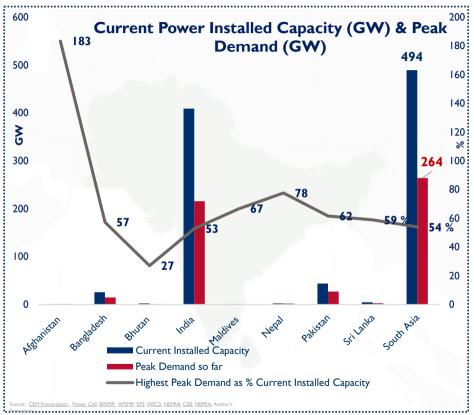


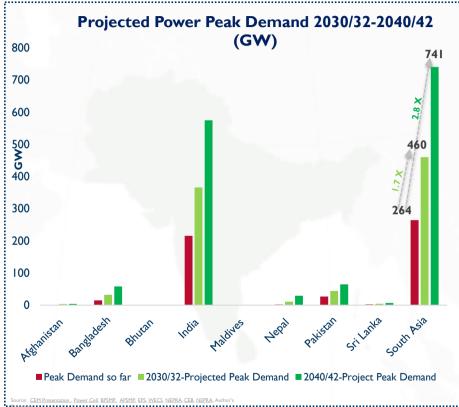






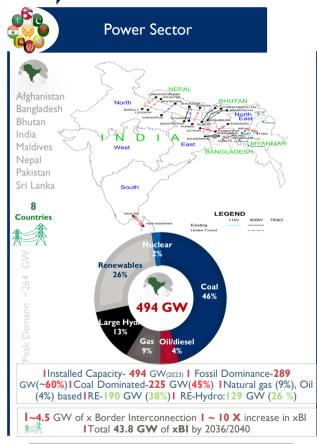
Overview of South Asia Power Sector-A Snapshot



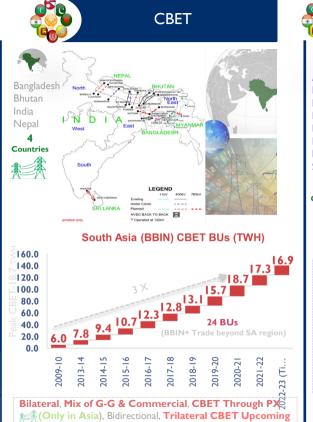


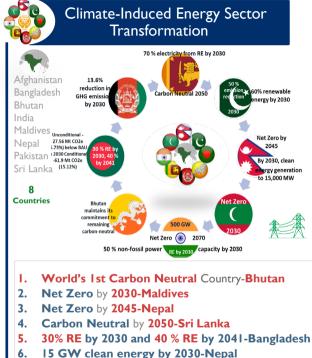
Opportunity for Generation Capacity Optimization | Massive demand growth in future | Significant Capacity addition will be needed

SA Power Sector, Cross Border Electricity Trade, Clean Energy Ambitions



Fossil Domination | Diverse Fuel Mix | 500 GW Power System I Rapid Expansion in X Border Interconnection Planned





- Net Zero by 2070-India
- 500 GW RE Installed Capacity by 2030-India

OSWOG initiative will also accelerate the rapid deployment of Solar in South Asia and Beyond

Large-scale clean energy transition | Regional approach will be optimal | Opportunity for developing regional energy projects

Large CBET Potential | CBET low compared to other regions |

ASEAN 49 TWH | EU 240 TWH | South Asia 24 TWH

Net Zero by





102.1 Investment Opportunity and Regional Project in South Asia: Future Scenario

- ☐ Decarbonisation Goals will require significant additional investment.
- □ 3.4 Trillion Climate Smart Investment opportunities by 2030 in South Asia *
- ☐ South Asia would spend 1.39 trillion US\$ to add ~750 GW of electricity generation capacity and 29 billion US\$ for planned inter-grid connection by 2040 **.
- **43.8 GW** of Cross Border Interconnection by 2040
- BIMSTEC region needs **958 billion US**\$ for generation and 122 billion US\$ for Transmission*** by 2035.



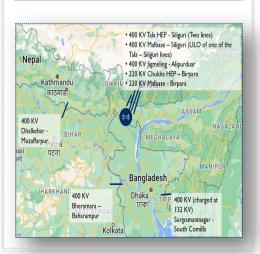
Significance of regional energy investment projects increasing



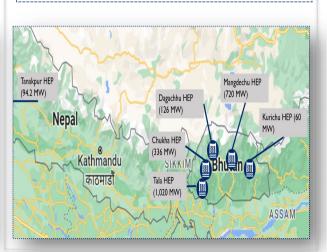
Defining regional energy investment projects

- **beneficiaries** of the project are located in more than one country in the region
- investment of one country, made on energy infrastructure projects in another country

X Border Transmission lines 220 KV and above



Regional Power Generation projects



A number of new projects under construction/advanced stage of financial closure and completion



* Godda TPP Unit 1 was commissioned recently in April 2023

Nature of Regional Energy and CBET Project - Uniqueness and Risks



Long Term

Political and Country Risk

Financing Risks Off-taker Risk (Including payment Risk)

Irreversible



Policy & Regulatory Risk Construction / operation Risk

Expropriation and breach of Contract



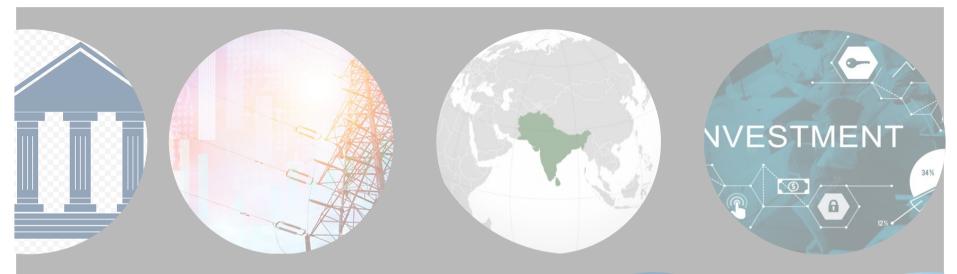
Multiple Jurisdiction

Dispute Resolution Risk

Security Risk

Pricing Risks

An Ecosystem Approach: A combination of de-risking strategies, risk mitigation instruments, innovative financing instruments, and regional forums can create the needed ecosystem



The Approach of Strategy Paper on SAFEI



The approach of the Strategy Paper on SAFEI



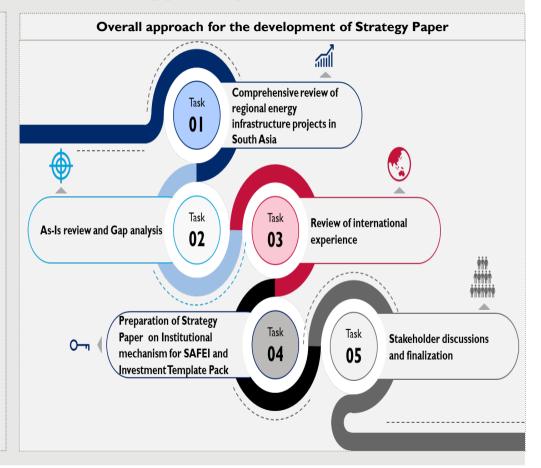
Strategy Paper was developed by USAID's South Asia Regional Initiative for Energy Integration (SARI/EI).



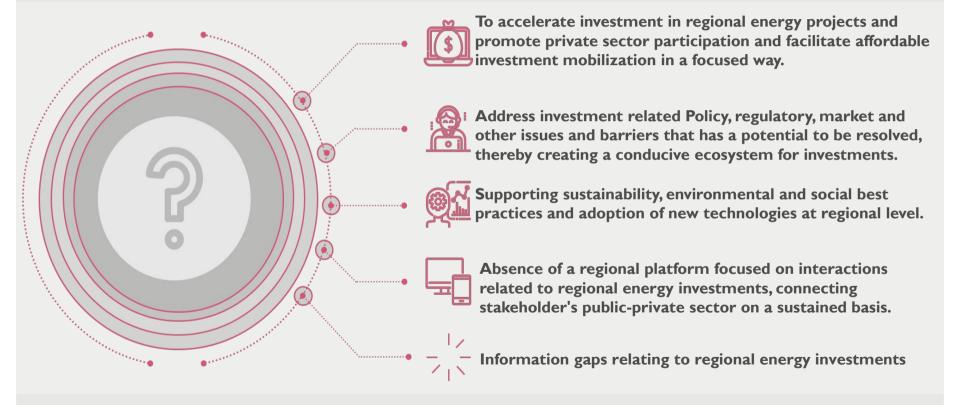
As a follow on to the Task Force-I Report on Regional Investment framework, which recommended the creation of a "Regional Investment Facilitation Forum "



The strategy paper on South Asia Forum on Energy Investment (SAFEI) ascertains the need and the prospects of regional projects, facilitating enabling environment, suggests Institutional framework, structure, function, and role of SAFEI.



Why is a Regional Energy Investment Forum needed?











Mey learnings from review of international experience

International Experience Project Advisory Unit of South African Power Pool

Project Advisory Unit (PAU) was formed with the aim of assisting in operationalizing the selected priority projects in SAPP participating countries

"to advance the preparation of selected priority projects in the Southern African Power Pool participating countries"

Conduct regional analytical work;



Do the studies to get the project to a bankable state.

Use the grant funding received by the SAPP Coordination Centre to screen, select, prepare and monitor the implementation of regional priority projects; and

 Play an advisory role to SADC governments and utilities.

Examples of PAU supported projects

- Mozambique-Zambia 400KV power interconnection project
- Kolwezi (Democratic Republic of Congo)-Solwezi (Zambia) 330 kV Power Interconnector



SAPP Regional Transmission Infrastructure Financing Facility (RTIFF)

An ongoing effort of SAPP to finance development of regional transmission infrastructure. The development of RTIFF is supported by the World Bank, the Government of Norway and the Swedish International Development Cooperation Agency

International Experience- Energy Investment Forum of Central Asia Regional Economic Cooperation Program (CAREC)

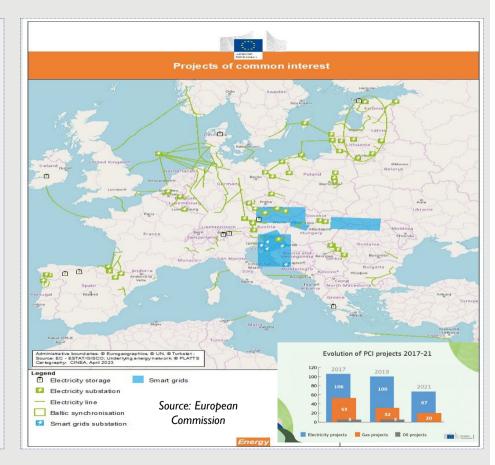
CAREC's Energy Investment Forum (EIF)
Central Asia's Flagship event to enable
private investments in the energy sector.





International Experience- Projects of Common Interest in European Union

- Projects of Common Interest (PCIs) aim to support EU to achieve its energy policy and climate objectives - affordable, secure, and sustainable energy for all citizens, and the longterm decarbonisation of the economy.
- These are the key cross border high risk infrastructure projects that link the energy systems of EU countries.
- PCIs benefit from accelerated permitting procedures and funding.
- PCIs can take funding from the **Connecting Europe** Facility (CEF), the EU fund for boosting energy, transport, and digital infrastructure.
- **CEF** support comes in the form of grants. €5.8 billion budget for CEF, for 2021-2027.
- Being assessed in the ENTSOe's Ten Year Network Development Plan (TYNDP) is a pre-condition for a project to be granted PCI Status.



Summary of learnings from review of international examples

	Project preparation and analytical studies	Assistance in financial closure	Project implementation/mon itoring support	Regional investment strategy	Regional investment fund	Discussions, knowledge sharing
PAU in SAPP	✓	✓	✓		✓	✓
CAREC EIF	✓			✓		✓
CEF in EU					✓	
Sustainable Energy Investment Forum Europe	✓					✓
Heads of ASEAN Power Utilities HAPUA Working Group	✓			✓		✓
Regional Power Trade Coordination Committee (RPTCC) in GMS	✓			✓		✓



Vision, Mission,
Objectives,
Membership,
Funding



Vision and Mission-South Asia Forum on Energy Investment (SAFEI)



Vision

To become the regional centre of excellence for creating an investor friendly ecosystem for the development of sustainable regional energy projects and advancing cross border energy trade in South Asia.



Mission



To facilitate, support and promote regional energy investments in South Asia in a sustainable and costeffective manner.



Objectives of South Asia Forum on Energy Investment (SAFEI)



Facilitate Development of conducive and investor friendly ecosystem

Advocate for development of regional policy, regulatory, legal & commercial framework

Facilitate the mobilization of financing with increased private sector participation



Promote the adoption of sustainable and new technologies, best practices



Act as a credible source of all investment related information, and its dissemination for investor community for prudent investment decision



Undertake cross cutting analysis, research and commission studies on regional energy investment opportunities- South Asia Regional Energy Investment Outlook





Serve as a regional platform to facilitate networking and outreach

05.3 Membership-South Asia Forum on Energy Investment (SAFEI)



Any relevant organization that is

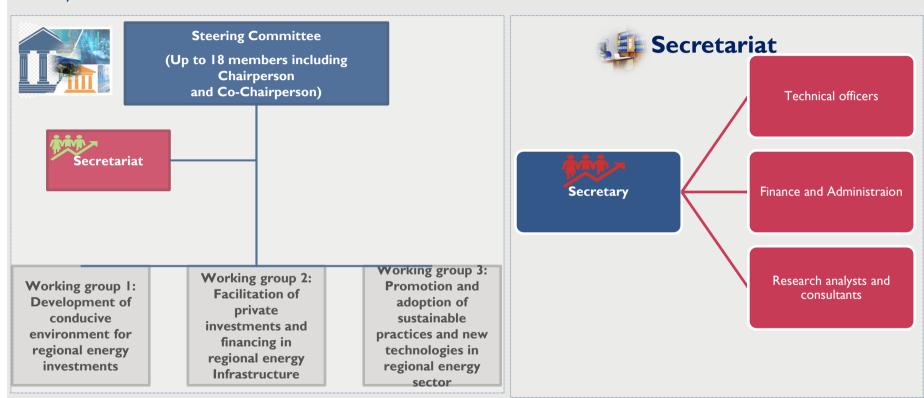
willing to be part of SAFEI may be allowed to become the forum's member, subject to any administrative requirements such as agreeing to the charter of SAFEI, payment of any membership fees in the

future etc.



- National Investment promotion bodies
- Industry associations/chambers of commerce and industries
- Government and privately owned banks and financial institutions
- National power utilities involved in cross border projects
- Private power companies involved/interested in cross border projects
- **Energy departments or ministries**
- National planning authorities
- Research institutions and think tanks
- Regional energy programs
- Development partners/donor/aid agencies
- Any other organization involved in energy or finance sectors

SAFEI Institutional Structure, Secretariat and Funding

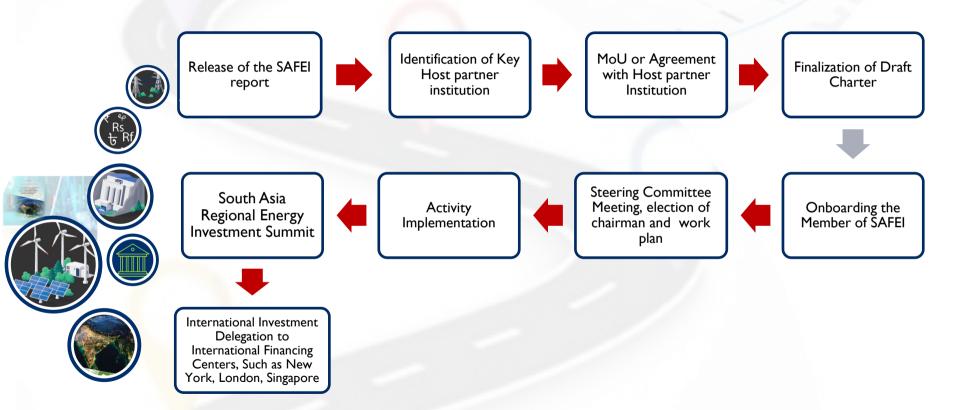




SAREP is implementing and Institutionalizing the SAFEI. During the Initial Period, support is being provided by USAID's SAREP, but Once the operations are stabilized, a self-sustainable option of membership funding is to be explored.



South Asia Forum on Energy Investment (SAFEI): Way forward







Thank You







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Disclaimer

The data, information and assumptions (hereinafter 'data-set') used in this document are in good faith and from the source to the best of SAREP (the program) knowledge. The program does not represent or warrant that any data-set used will be error-free or provide specific results. The results and the findings are delivered on "as-is" and "as-available" data-set. All data-set provided are subject to change without notice and vary the outcomes, recommendations, and results. The program disclaims any responsibility for the accuracy or correctness of the data-set. The burden of fitness of the data-set lies completely with the user. In using the data-set data source, timelines, the users and the readers of the report further agree to indemnify, defend, and hold harmless the program and the entities involved for all liability of any nature.

Objectives of South Asia Forum on Energy Investment (SAFEI)



Facilitate Development of conducive and investor friendly ecosystem



Advocate for development of regional policy, regulatory, legal & commercial framework



Facilitate the mobilization of financing with increased private sector participation



Promote the adoption of sustainable and new technologies, best practices-Environmental & social safeguards



Credible platform for interaction | Suggest innovative policy, fiscal and market instruments | clear risk sharing and management | framework | risk mitigation instruments



Suggest changes investment/finance related policy, regulatory, legal, investment and commercial framework | Joint recommendations/requests of investors | Stakeholder interaction



Formulation of pipeline of projects I innovative financing instruments and business models | Facilitate initial interactions with investors |



Promote the adoption of international best practices of environmental and social safeguards I energy storage, distributed renewables, blockchain etc. from the perspective of CBET of energy storage services and regional energy integration

Objectives of South Asia Forum on Energy Investment (SAFEI)



Act as a credible source of all investment related information, and its dissemination for investor community for prudent investment decision



Develop an information repository covering new and proposed regional energy investments | Project success stories | Standard templates and quick reference guides



Undertake cross cutting analysis, research and commission studies on regional energy investment opportunities



Development and updating of investment templates I Undertake project specific analysis in initial stages of project preparation I South Asia Regional Energy Investment Outlook



Serve as a regional platform to facilitate networking and outreach



Platform for networking, knowledge exchange, capacity building and consultations I SAFEI Quarterly Newsletters I high-level investment delegations I Regional Investment Summit

Objectives of SAFEI

- I. Facilitate the development of a conducive and investor friendly ecosystem for creating a sustainable market for energy investment.
- 2. Advocate for the development of coordinated and harmonious policy, investment and commercial framework across countries of South Asia for accelerating the investments in CBET and regional energy projects.
- 3. Facilitate the mobilisation of financing and investment avenues with increased private sector participation in regional energy projects.
- 4. Promote sustainable regional energy projects and the adoption of associated frontier technologies and best practices.
- 5. Act as a credible source of all investment related information in respect of regional energy projects and help dissemination of such information for investor community in taking prudent investment decision.
- 6. Undertake cross cutting analysis and research and commission regional studies on regional energy investment opportunities with special emphasis on international best practices.
- 7. Serve as a regional platform to facilitate networking, information and knowledge exchange, including stakeholder outreach.

Functions of SAFEI (1/2)



Development of conducive and investor friendly ecosystem



Advocate for development of regional policy, regulatory, legal & commercial framework



Facilitate the mobilization of financing with increased private sector participation



Promote the adoption of sustainable and new technologies

- Provide platform for interaction
- Suggest innovative policy, fiscal and market instruments
- Undertake proactive studies
- · Identification of broad solutions for risk mitigation
- Analyse the need for changes in country level frameworks/provisions
- Initiate dialogues with policy makers on solutions to investment barriers Facilitate development of joint recommendations/requests of investors
- Provide support to policy makers to promote regional investments.
- Identification of financing sources and regional investment opportunities
- Identification of a list of regional energy investment projects to explore opportunities of investment
- Facilitate initial interactions between multiple financing sources & investors
- Promote the adoption of environmental and social safeguards in development of sustainable energy infrastructure
- Facilitate adoption of such new technologies such as energy storage, distributed renewable etc.

Functions of SAFEI (2/2)



Act as a credible source of all investment related information, and help in its dissemination



Undertake cross cutting analysis and commission studies on regional energy investment opportunities



Serve as a regional platform to facilitate networking and outreach

- Highlight the importance of regional projects, commercial aspects and their advantages
- Develop an information repository covering new and proposed regional energy investments
- Development of standard templates and quick reference guides
- Undertake detailed analysis and research on investment opportunities
- Develop common toolkits and frameworks for opportunity analysis
- Develop and update investment templates
- South Asia Regional Energy Investment Outlook
- South Asia Regional Energy Investment Forum
- Identification of financing sources and regional investment opportunities
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