

**MINUTES OF THE 28th STEERING COMMITTEE MEETING (SCM)
OF SOUTH ASIA FORUM FOR INFRASTRUCTURE REGULATION
(SAFIR)**

DATE: 8TH JUNE, 2022

**VENUE: TAMARIND HALL, INDIA HABITAT CENTRE, NEW
DELHI, INDIA**

1. The meeting was chaired by Mr. Samdrup K. Thinley, Chairperson South Asian Forum of Infrastructure Regulation (SAFIR) and Bhutan Electricity Authority.
2. Chairperson CERC in his opening remarks thanked the members for participating in the meeting and emphasized on the importance of SAFIR in providing platform for experience sharing on best practices on infrastructure sectors in South Asian region. He added that SAFIR has been ably assisted by multilateral agencies such as USAID and the World Bank on issues such as regional power market and common minimum grid code
3. Chairperson, SAFIR and CEO of Bhutan Electricity Authority welcomed all dignitaries to the meeting. He observed the importance of this physical meeting which follows after two virtual meets. He further stressed on the issues and challenges faced by the SAFIR members in the energy sector and emphasized on the need of resolution of these issues through regular meetings and discussions.
4. Ms. Chathurika Wijesinghe, Member, Public Utilities Commission of Sri Lanka thanked everyone for coming to the meeting. She also highlighted the issues faced by Sri Lanka and assured the members that the situation is not as grim as it is made out on the media. She invited SAFIR members to visit Sri Lanka for conducting meetings in future. She also looked forward for more

cooperation between India and Sri Lanka in the power sector

5. Mr. Mohammed Abu Faruque, Member, Bangladesh Electricity Regulatory Commission, greeted the members of SAFIR and conveyed his best wishes to them. He also expressed gratitude on behalf of Bangladesh Energy Regulatory Commission to participate in the meeting.

List of participants in enclosed at **Annexure- I**.

The Steering Committee thereafter took each of the agenda items for consideration.

AGENDA ITEM 1: CONFIRMATION OF THE MINUTES OF THE 27Th STEERING COMMITTEE MEETING

Dy Chief (RA), CERC explained the action taken on various points in the minutes of 27th Steering committee meeting and sought confirmation of the minutes placed before the Committee. After discussion, the minutes of the 27th SCM were confirmed.

AGENDA 2: ACCOUNTS RELATED ITEMS

(i) Budget for the F.Y. 2022-2023.

1. Deputy Chief (RA), CERC apprised the salient features of the SAFIR budget for the F.Y. 2022-2023, including the projected income and expenditure. The Members were also apprised on the restoration of the membership fees for the F.Y. 2022-2023, due to depletion in the accumulated reserves of SAFIR.
2. Further, the Members were apprised that for the past few years, there was an ongoing issue with SAFIR's banker with regard to the validity period of the "No Objection Certificate" issued by the Ministry of Home Affairs in 2010, for receipt of funds/membership fee from the Members Outside India (FCRA issue). This issue has been resolved by the bankers permitting SAFIR to receive funds into its FCRA

account from Members outside India. Hence, SAFIR Sectt. will be issuing the previous years (viz. F.Y.s 2018-2019 & 2019-2020) invoices on its Members Outside India along with the invoice for the F.Y. 2022-2023.

3. Chairperson, CERC suggested that while the invoices are being issued, SAFIR Secretariat should ensure that the communication clearly indicates that the invoices were being raised for the past periods 2018-19 and 2019-20 (due to resolution of FCRA issues) while the membership fees were waived for 2020-21 and 2021-22 and new invoice was being raised for FY 2022-23

4. On the discussion of the Core Course which is held regularly by SAFIR in coordination with its Members, Member, PUCSL, Sri Lanka suggested to include Indian experience on the subjects of Multi Buyer model, Open Access, Power Exchange as these would be more relevant to Sri Lanka context. She further added that the Core course of SAFIR should also be imparted on the areas of the suggested topics to the participants from Sri Lanka.

With these observations, the Steering Committee approved the budget.

(ii) Audited Accounts of SAFIR for the F.Y. 2021-2022.

Deputy Chief (RA), CERC apprised the salient features of the Annual Accounts of SAFIR for the F.Y. 2021-2022. Thereafter, the Steering Committee approved the Annual Accounts of SAFIR

(iii) Re-appointment of Auditor/Consultants:

1. Deputy Chief (RA), CERC apprised that M/s R.K. Raman & Co., CAs are completing their tenure of five years as Auditors of SAFIR after conducting the audit for F.Y. 2021-2022. Accordingly, the process of appointing a new Auditor will be initiated and quotations will be called from the existing panel of CAs & new CA firms.

2. The Members also approved the proposal for re-appointment of Auditor for conducting the Audit of SAFIR and Consultants for filing the Income Tax Return & FCRA Return of SAFIR for F.Y. 2021-2022. Further, the Members also approved the re-appointment of consultant for filing the GST Returns of SAFIR for F.Y. 2022-2023.

(iv) Membership withdrawal request from SAFIR members, viz. Sikkim State Electricity Regulatory Commission and Assam Electricity Regulatory Commission.

1. Deputy Chief (RA), CERC apprised that Assam ERC vide their letter dated 27th February, 2020 had requested for discontinuation of membership of SAFIR due to financial constraints. However, due to pandemic situation, SAFIR had permitted Assam ERC to continue as a member, as the membership fees was waived for all SAFIR members for the F.Ys. 2020-2021 and 2021-2022. Further, she added that Sikkim State ERC had also, vide their letter dated 16th April, 2021 requested for discontinuation their membership of SAFIR.
2. In this matter, while Chairperson, Sikkim State ERC stated that the decision to withdraw from SAFIR was taken before he assumed charge in Sikkim ERC, he was happy to inform the Forum that Sikkim ERC would continue to be a member of SAFIR and that a letter in this regard will be sent to SAFIR Secretariat.
3. On the same issue, Member, Assam ERC informed the Forum that, vide their letter dated 30th October, 2021, they had already communicated to SAFIR Secretariat to continue their membership in SAFIR. However, as the same was not received by SAFIR Secretariat. Member, Assam ERC stated that the letter will be shared again.

The Steering Committee of SAFIR appreciated the response of both Assam and Sikkim ERCs to continue to be members in SAFIR

AGENDA ITEM 3: ESCAP PROPOSAL FOR CAPACITY BUILDING PROGRAMS FOR REGULATORS IN SAFIR

1. Dy. Chief (RA), CERC apprised the Steering Committee members about the proposal received from the Economic and Social Commission for Asia and the Pacific (ESCAP) Secretariat which is also one of the five regional commissions of the United Nations to conduct capacity building programs for SAFIR to support increased and sustainable power system connectivity – Phase I. She further informed that the trainings would be fully funded by ESCAP and that they had suggested training topics in Electricity trading in a multi-jurisdictional setting; Congestion management for cross-border electricity trading; transmission tariff setting in a regional market; Renewables integration and its impact on electricity systems and markets; end-user electricity tariffs and their affordability; regulatory governance of regional electricity markets, etc.
2. The Steering Committee members observed that the topics suggested by ESCAP are relevant to the South Asian region and therefore, approved the proposal and directed SAFIR Secretariat to send a confirmation of the same to the ESCAP secretariat.

AGENDA ITEM 4: STATUS UPDATE OF ACTIVITIES OF THE SAFIR WORKING GROUP – BY SARI/EI; IRADE

1. Dy. Chief (RA), CERC apprised the SC members about the technical and knowledge support being provided by IRADE through the SARI/EI program to the SAFIR Working Groups, which will end in September 2022, and thereafter requested Project Director, SARI/EI to make a brief presentation on the various

activities of the SAFIR Working Group.

2. Project Director, IRADe / SARI/EI made a presentation (**Annexure II**) before the Steering Committee. The key features of the presentation included the following:
 - a) TOR of the SAFIR Working Group and its key activities
 - b) Update on the Study on Regulatory interventions for Grid discipline and Grid reliability in the South Asian region ; Study /Research on South Asia electricity/electricity regulations to develop regulatory pathway/Road Map for Electricity/Energy exchange and Energy Cooperation (EC) in SA ; Common Minimum Grid Code for South Asia ; New Study on Assessing the Potential Benefits of Cross Border Electricity Trade, Grid Balancing of Renewable Energy Integration and Ancillary Service Market in the South Asia
 - c) SAFIR Regulatory Newsletter, Compendium of Electricity Regulation of South Asia Countries, Web portal on “South Asia Energy/Electricity Knowledge Resource Database”; South Asia Energy Database; SAFIR Working Group meetings and South Asia Energy Sector Training and Capacity Building program on energy regulation for Energy Cooperation and exchange of electricity in South Asia
3. The SC members were also informed that the SARI/EI is a long-standing program of USAID which started in the year 2000 and is ending in September 2022 and further, the activities of the program will be carried out by the South Asia Regional Energy Partnership (SAREP) program which is fully funded by USAID .
4. Ms. Monali Zeya Hazra, Regional Energy Manager and Program Management Specialist, USAID apprised the Steering Committee members that the SAREP program is a 5-year program which was launched on May 2021 but was put on hold, due to overlapping scope of work with SARI/EI program. Hence, once the SARI/EI program comes to an end in September 2022, the future activities of supporting SAFIR will be carried out by RTI under the SAREP Program.

The Steering Committee appreciated the support given by USAID to the SAFIR Working Group and directed SAFIR Secretariat to coordinate in this matter.

AGENDA ITEM 5: PLAN FOR F.Y. 2022-23

(i) SAFIR Infrastructure Conference for F.Y. 2022-23 (ii) Next Steering Committee meeting

1. Dy. Chief (RA), CERC/SAFIR Secretariat updated the Steering Committee members about the SAFIR Infrastructure Conference which is generally conducted in association with multilateral organisations and is fully funded by such organisations. She also informed the members that IRADe in association with USAID under the SARI/EI program has been conducting the Infrastructure Conference for SAFIR since 2016. To this, the representative of USAID informed that USAID would continue to support the SAFIR Conference under the South Asia Regional Energy Partnership (SAREP), a newly launched USAID program from October 2022 onwards.

2. Chief (RA), CERC observed that in the past such conferences were generally conducted back to back with the Steering Committee meetings and accordingly, the same can be planned. As the next Steering Committee is slated to be held in the next financial year, SAFIR Secretariat was directed to coordinate with USAID on working out the necessary arrangements

At the end, the members noted that Mr. P. K. Pujari, Chairperson, CERC is due to retire on superannuation on 11th June, 2022 (this being his last Steering Committee meeting), and placed on record their deep appreciation for the valuable contribution of Mr. Pujari in the activities of SAFIR.

The meeting concluded with vote of thanks to the Chair.

LIST OF PARTICIPANTS OF THE
28TH STEERING COMMITTEE MEETING OF “SAFIR”
HELD ON 08TH JUNE, 2022

S. NO.	NAME	ORGANIZATION
01.	Mr. Samdrup K. Thinley CEO, BEA & Chairman, SAFIR	Bhutan Electricity Authority, Bhutan
02.	Mr. P.K. Pujari Chairperson	Central Electricity Regulatory Commission (India)
03.	Mr. Mohammad Abu Faruque Member	Bangladesh Energy Regulatory Commission (Bangladesh)
04.	Ms. Chathurika Wijesinghe Member	Public Utilities Commission of Sri Lanka (Sri Lanka)
05.	Mr. Preman Dinaraj Chairperson	Kerala State Electricity Regulatory Commission (India)
06.	Mr. D. Radhakrishna Chairperson	Tripura Electricity Regulatory Commission (India)
07.	Mr. K.B. Kunwar Chairperson	Sikkim State Electricity Regulatory Commission (India)
08.	Mr. Viswajeet Khanna Chairperson	Punjab State Electricity Regulatory Commission (India)
09.	Mr. H.M. Manjunatha Acting Chairperson	Karnataka Electricity Regulatory Commission (India)
10.	Mr. Satyendra Nath Kalita Member	Assam Electricity Regulatory Commission (India)
11.	Mr. Vinod Deshmukh Member	Chhattisgarh State Electricity Regulatory Commission (India)
12.	Mr. Bhanu Pratap Singh Member	Himachal Pradesh Electricity Regulatory Commission (India)
13.	Mr. Arvind Mayaram Chairman	CUTS Institute for Regulation & Competition (India)
14.	Dr. Abha Yadav Associate Professor	Indian Institute of Corporate Affairs (India)
15.	Mr. Harpreet Singh Pruthi Secretary, CERC	Central Electricity Regulatory Commission (India)
16.	Dr. Sushanta K. Chatterjee Chief (Regulatory Affairs), CERC	Central Electricity Regulatory Commission (India)
SPECIAL INVITEES / GUESTS		
17.	Mr. Indu Shekhar Jha Member	CERC
18.	Mr. Arun Goyal Member	CERC
19.	Mr. Pravas Kumar Singh	CERC

	Member	
20.	Mr. Ajay Gupta Member	JERC for UTs of J&K and Ladakh
21.	Mr. M.D. Ravi Member	KERC
22.	Mr. A.J. Wilson Member	KSERC
23.	Ms. Monali Zeya Hazra Regional Energy Manager & Clean Energy Specialist, IPO	USAID/INDIA
24.	Mr. Pankaj Batra Project Director	SARI/EI/IRADe (India)
25.	Mr. Rajiv Ratan Panda Technical Head	RTI
26.	Dr Ajit Kumar	RTI
SAFIR SECRETARIAT		
27.	Ms. Rashmi Somasekharan Nair Dy. Chief (RA)	CERC
28.	Mr. P.M. Antony Asst. Secretary	CERC
29.	Mr. M.M. Prasad Sr. Accounts Officer	
30.	Mr. Nilesh Diwan Accounts Officer	SAFIR
31.	Mr. Kushal Pal Research Associate	SAFIR
32.	Mr. Somesh Gupta Research Associate	CERC
33.	Mr. Sushil Kumar Arora Administrative Officer	SAFIR
34.	Mr. Davinder Technical Officer (IT)	

Presentation on TOR of the SAFIR WG and Updates on Implementation

by

Mr. Pankaj Batra, Project Director, SARI/EI IRADe

28th Meeting of SAFIR SCM at India Habitat Centre, New Delhi
on
8th June, 2022

Content

- *Brief about the SAFIR Working Group and Its TOR*
- *Key Activities of the Working Group*



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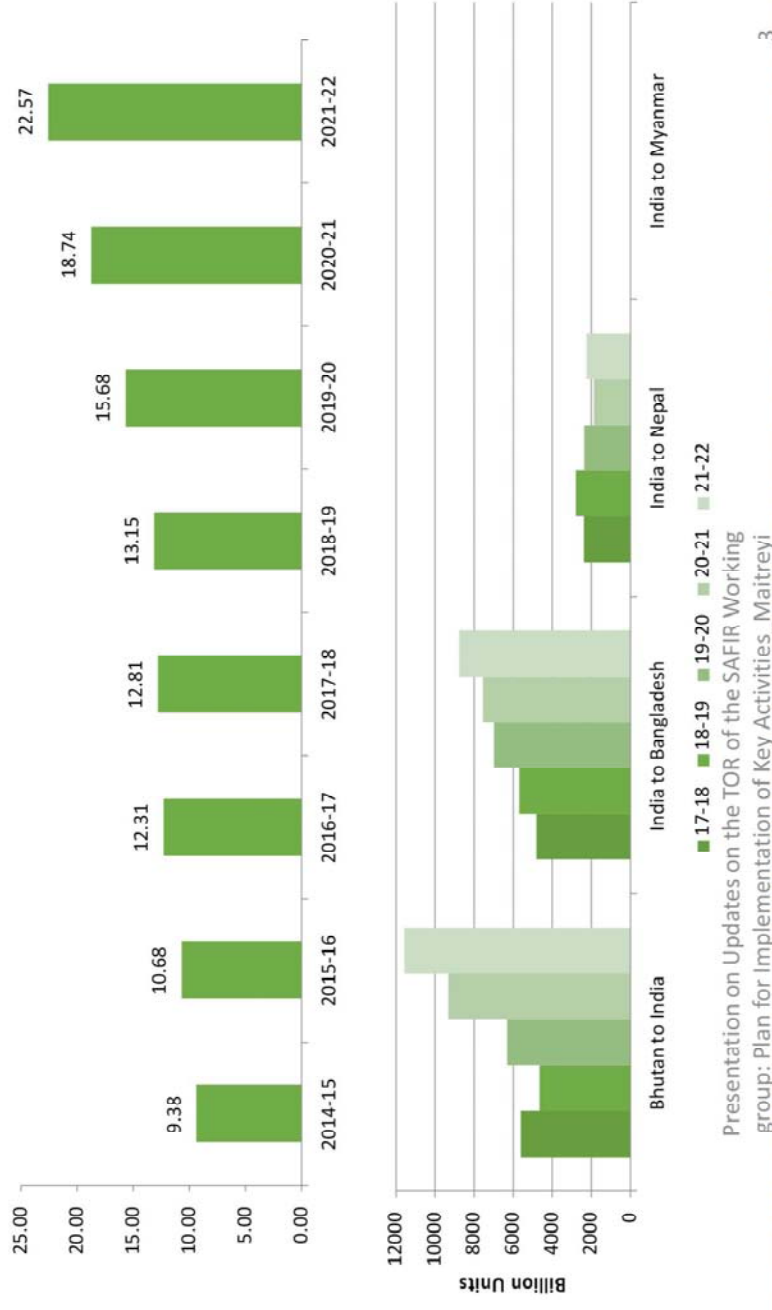
IRADe Integrated Research and
Action for Development

Growth of Cross Border Electricity Trade in BBIN Region during last 7 Years

India - Bangladesh -- 1160 MW
Bhutan - India -- 2100 MW
Nepal - India -- 500 MW



CBET in South Asia - BUs (TWh)



Presentation on Updates on the TOR of the SAFIR Working group: Plan for Implementation of Key Activities_Maitreyi

Overview South Asia Regional Initiative for Energy Integration (SARI/EI) Program

- SARI/E is a long standing program of USAID started in the year 2000.
- Program has consistently strived to address energy security in South Asia by focusing
 - 1) Cross Border Energy Trade
 - 2) Energy Market Formation and
 - 3) Regional Clean Energy Development.
- Phase IV (Extended Phase 2018-2022): Key Activities: Expected Development Outcomes:
 - Harmonize Policy, Legal and Regulatory Issues (Task Force-1)
 - Advance transmission interconnections (Task Force-2)
 - Establish South Asia Regional Electricity Markets (Task Force-3)
 - Transfer clean energy innovations to the region
 - Expand SARI/EI technical studies to South East Asia (BIMSTEC region)
 - Socialize power trade benefits to create public consensus and support through Think Tank Forum (TTF)
 - Analytical study to assess the potential of gas for regional energy cooperation.
 - Develop Skilled Workforce to support regional projects



The focus of the Extended phase will be on establishing and strengthening institutional mechanisms to carry forward the legacy of SARI/EI and providing secretariat functions to transfer knowledge/learning from USAID/India's bilateral projects to rest of the region.



Objective of the SAFIR Working Group

Objective of the SAFIR Working Group

The SAFIR Working Group works on



**Enhancing Regulatory
Cooperation to Facilitate
Knowledge sharing;**



**Addressing Cross cutting
Energy/Electricity Regulatory
Issues and Capacity Building in
South Asia;**



**Facilitate transparent
regulatory framework,
promoting investment in the
South Asia Region.**

TOR of the SAFIR Working Group

To facilitate regulatory capacity building among member countries at both national and regional levels through information knowledge sharing and skills training.

To facilitate the development of -electricity/energy regulations by identifying and addressing cross cutting energy/electricity regulatory issues for advancing Exchange of Electricity/Energy in South Asia region.

To provide inputs on policy & regulations/regulatory opinions/regulatory guidelines and to develop model regulations.

To undertake research work on issues relevant to electricity /energy sector regulation through in-house/ outsourcing.

TOR of the SAFIR Working Group

Prepare a detailed road map along with various regulatory interventions needed in South Asian countries for effective energy cooperation in the region to prepare annual status report and updates on regulatory cooperation in the South Asia Region.

Create data bank/knowledge repository on energy/electricity related issues.

Prepare South Asia Energy/Electricity Regulatory Compendium.

To develop web portal on “South Asia Energy/Electricity Knowledge Resource Database”.

SAFIR–Regulatory Monthly Newsletter to enhance regulatory knowledge sharing.

Any other work assigned by SAFIR.



Key Activities of the SAFIR Working Group

Key Activities of the SAFIR Working Group

- ❖ Study /Research on South Asia energy/electricity regulations to develop regulatory pathway/Road Map for Electricity/Energy exchange and Energy Cooperation (EC) in South Asia.
- ❖ Organizing “South Asia Energy Sector Training and Capacity Building program on energy regulation for Energy Cooperation and exchange of electricity in South Asia “
- ❖ South Asia Energy/Electricity Regulatory Compendium.
- ❖ SAFIR-Regulatory newsletter and web portal “South Asia Energy/Electricity Knowledge Resource Database”
- ❖ Organizing two/three meetings of SAFIR Working Group.





SARI/EI



Study /Research on South Asia energy/electricity regulations under SAFIR Working Group SAFIR Working Group



Study/Research on Regulatory interventions for Grid discipline and Grid reliability in the South Asian region

Objective:

- ☐ To review and analyse all the existing relevant electricity regulations, mechanisms and technical frameworks with respects to Grid discipline and Grid reliability of each South Asian Countries both from the perspective of integration/unification of regional grids of domestic power system of a country as well as cross border power grid integration.

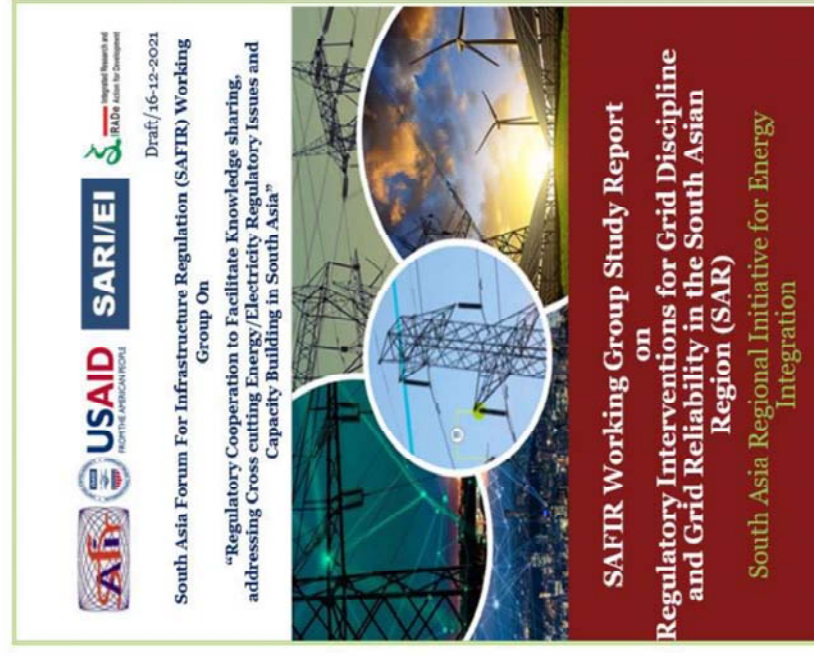
Deliverable :

- ☐ Detailed set of Regulatory measures/Intervention and Mechanism needed for enhancing Grid discipline & Grid reliability in SA region along with detailed explanatory memorandum.
- ☐ Roadmap (regional and country wise) and action plan for implementation of above suggested Regulatory measures /Intervention.

Study/Research on Regulatory interventions for Grid discipline and Grid reliability in the South Asian region

Status of the study :

- ❖ The Report was discussed in the ECM of SAFIR on 18.11.2021 and approved by Members of SAFIR. As per the decision, the final Report has been sent to the SAFIR Secretariat, for further circulation to the Member countries for vetting.
- ❖ The Report was released in the SARI/EI/IRADE-SAFIR Conference on “Power Markets to Facilitate Enhancement and Integration of Renewable Energy”, held on 15-16 Feb. 2022.



Study /Research on South Asia electricity/electricity regulations to develop regulatory pathway/Road Map for Electricity/Energy exchange and Energy Cooperation (EC) in SA

Objective:

- ☐ To review, study and analyze the existing energy/electricity regulations of each of the South Asian countries to develop regulatory pathway/Road Map for Electricity/Energy exchange, cross border electricity/energy trade and Energy Cooperation (EC) in South Asia.
- ☐ Identify and analyze the relevant provisions in all existing energy/electricity regulations that have an impact on optimal, reliable and economic Electricity/Energy exchange, cross border electricity/energy trade and carry out a detailed gap analysis for the same, from the perspective of enhanced cross border electricity/energy trade.
- ☐ Suggest and recommend the necessary changes/additions or new regulations that are required in the respective countries' for advancing Electricity/Energy exchange, cross border electricity/energy trade and Energy Cooperation (EC) in South Asia.



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SARI/EI



Study /Research on South Asia energy/electricity regulations

Status

- Study /Research on South Asia electricity/electricity regulations to develop regulatory pathway/Road Map for Electricity/Energy exchange and Energy Cooperation (EC) in SA
- The study is nearing completion, and is likely to be completed by July 2022.



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SARI/EI



Common Minimum Grid Code

Common Minimum Grid Code

The Common Minimum Grid Code for South Asia is applicable to all countries of South Asia, who get connected to the South Asia grid through a synchronous or a-synchronous (i.e. HVDC) connection.

Objective:

- ☐ Facilitation of cross border trading of power, in a fair and non-discriminatory manner for all South Asian nations, while ensuring secure, reliable, economic and efficient operation of the grid.
- ☐ Facilitation of the coordinated optimal operation of the South Asian Grid.
- ☐ Facilitation of coordinated and optimal maintenance planning of generation and transmission facilities in the South Asian grid.



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SARI/EI



Common Minimum Grid Code

Status :

- ☐ Comments of Bhutan and CERC incorporated.
- ☐ Comments of Bangladesh and Nepal remaining.



SARI/EI



New Study on Assessing the Potential Benefits of Cross Border Electricity Trade, Grid Balancing of Renewable Energy Integration and Ancillary Service Market in the South Asia

Study on Cross Border Trade of Electricity

Assessing the Potential Benefits of Cross Border Electricity Trade for Affordable Supply of Electricity, Facilitating Grid Balancing of Renewable Energy Integration, and Suggesting a Framework for Ancillary Service Market in the South Asia Region

Objective:

- ☐ Extent of potential reduction in average cost of supply of electricity, in the existing scenario, in the South Asian countries due to increased cross border trade of electricity including reduction in balancing cost per unit on account of intermittency of renewables, for optimal utilization of generation assets in South Asia.
- ☐ Role of Cross Border Electricity Trade in the context of accelerating the Renewable energy integration in South Asian Countries.
- ☐ This will also cover the analysis on a yearly basis for 15 years ahead, and a scenario of 25 years ahead.
- ☐ Analysis of the various market mechanisms in vogue internationally, for grid balancing and ancillary services, and to propose an appropriate fair, transparent market structure suitable for South Asia, and the broad framework for ancillary service market in the Region.

Study on Cross Border Trade of Electricity

Assessing the Potential Benefits of Cross Border Electricity Trade for Affordable Supply of Electricity, Facilitating Grid Balancing of Renewable Energy Integration, and Suggesting a Framework for Ancillary Service Market in the South Asia Region

Status:

- ☐ Study has been awarded.
- ☐ Inception Report has been submitted and approved.
- ☐ Stakeholder meetings are being held for data authentication.
- ☐ Study is expected to be completed by August end.



SAFIR-Regulatory newsletter

SAFIR-Regulatory newsletter

- ✓ Aims to Increase Regulator Knowledge exchange in the SA region
- ✓ Track and Compile various Energy Regulatory and Policy Developments in the Region on a Quarterly basis.
- ✓ It includes power, oil and gas sector.

Status

- ✓ The first Quarterly Newsletter (April-June 2020) was released in the SAFIR-SARI/EI Conference in March 2021. The second (July-Sept 2020) was drafted and submitted to the SAFIR Secretariat for comments. Comments were received and are being incorporated.
- ✓ All subsequent editions till March 2022 are being compiled and will be taken out in a single compiled form. This is expected to be taken out by July 2022. A second compiled Newsletter will be taken out from April to Sept 2022.



9. Release of Newsletter : Quarterly SAFIR Regulatory Newsletter

- **Title :** Quarterly SAFIR Regulatory Newsletter
- **Launch of Newsletter :**
 - ✓ The first edition of was released during the SAFIR infrastructure conference held on 15th March 2021 during the inaugural session;
 - ✓ Subsequent editions are under preparation and shall be shared with SAFIR for their approval;
- **Status:**
 - ✓ April – June 2020 Edition uploaded on SAFIR's website
 - ✓ The second edition is currently under finalization.
 - ✓ Subsequent editions would be taken out in a combined form.

April – June 2020





South Asia Energy/Electricity Regulatory Compendium

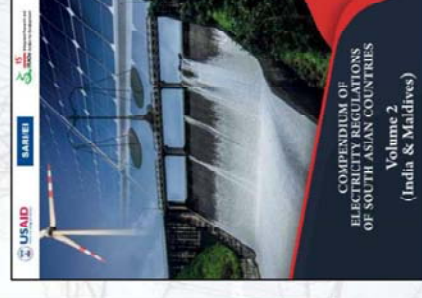
Release of Compendium of Electricity Regulation of South Asia Countries

For ease of reference, the regulations, in three Volumes, are classified under the following categories for each of the countries:

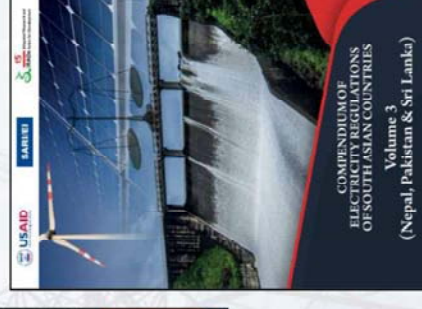
1. Primary legislation, key policies, rules and guidelines
2. Cross Border Electricity exchange/Trade
3. Technical Standards
4. Grid Code and System Operation
5. Transmission Pricing
6. Open Access
7. Power Trade, Exchanges and Markets
8. Licensing
9. Generation and Transmission Tariffs



Volume - 1



Volume - 2



Volume - 3

South Asia Energy/Electricity Regulatory Compendium

- **Date of Release : 1st Version (Up to December, 2020)**
 - : Released during the SAFIR-SARI/EI Conference on 19 February 2020
- **Status related to release of subsequent editions:**
 - ✓ First Six Monthly Revision (Jan 2020 – June 2020):--
Published – 24 February 2021
 - ✓ Second Six Monthly Revision (Updated till Dec 2020):-- Published- 11 August 2021
 - ✓ Third Six Monthly Revision (Updated till June 2021): :
Published on 5th February 2022.
 - ✓ Fourth Six Monthly Revision (Updated till Dec 2021): Released during the SAFIR-SARI/EI Conference (Virtual) on “Power Markets to Facilitate Enhancement and Integration of Renewable Energy” on 15-16 February 2022.





Web portal “South Asia Energy/Electricity Knowledge Resource Database”

Web portal on “South Asia Energy/Electricity Knowledge Resource Database”

Aims to Create a Energy/Electricity Sector Data Base/ Dashboards

Track and Compile various Energy/Electricity Sector Data of the Region such as (but not limited to) :

- ✓ Demographic data
- ✓ Energy/Power Demand, supply
- ✓ Energy Balance
- ✓ Installed capacity (total and fuel wise)
- ✓ energy and peak deficits, load shedding
- ✓ CBET in MW/MWhr, Energy Losses
- ✓ Per Capita Energy Consumption
- ✓ Generation and Transmission Projects Planned
- ✓ Power Market Data
- ✓ Renewable Energy Related Data
- ✓ Key Policy and Regulations

- ✓ Web portal with data Analytics, Standard and Custom Graphs, pie charts and Figures, Info graphics etc .
- ✓ Data taken from public domain and provided by the respective countries.
- ✓ Will be available in Public Domain



SARI/EI



<https://uat.kreatetechologies.com/sari/home>



SARI/EI



South Asia Energy Database

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South Asia Energy Database



About SAED

South Asia Energy Database is a single point platform to disseminate data and information related to Energy / Power Sector in South Asia region.

It acts as an information repository to reduce data asymmetry and helps towards high quality data research and analysis about the region.

[Know More](#)



SAFIR Working Group Meetings

SAFIR Working Group Meetings

- ✓ **1st Meeting of SAFIR Working Group held on 15th & 16th May'2018, Hotel Taj Samudra, Colombo, Sri-Lanka**
- ✓ **2nd Meeting of SAFIR Working Group held on 4th Dec. 2019 at Radisson Blu Dhaka Water Garden, Dhaka, Bangladesh.**
- ✓ **3rd Meeting of the SAFIR Working Group held virtually on 10th March, 2022.**

Continuous Interaction

Regular meetings are essential for ensuing a Consultative and participatory process



South Asia Energy Sector Training and Capacity Building program on energy regulation for Energy Cooperation and exchange of electricity in South Asia

South Asia Energy Sector Training and Capacity Building program on energy regulation for Energy Cooperation and exchange of electricity in South Asia

Key Topics to be Covered (Regulatory Aspects of Energy Cooperation and exchange of electricity)

- ✓ Transmission Planning
- ✓ Coordinated System Operation
- ✓ Licensing Regimes
- ✓ Tariff Frameworks
- ✓ Grid Codes
- ✓ Open access
- ✓ Transmission Pricing
- ✓ Imbalance Settlements
- ✓ Power Trading and Power Exchange Mechanism.
- ✓ Power Market Regulations
- ✓ International Experiences

- ✓ Training Programme in three modules of 4 days each
- ✓ Working Groups Members and Regulators of South Asian Countries
- ✓ Site Visit to Load Dispatch Centers/Power Utilities etc.

Proposed to be held in the Month of July-August 2022

South Asia Energy Sector Training and Capacity Building program on energy regulation for Energy Cooperation and exchange of electricity in South Asia

Status

- ✓ Training of regulators, in three modules (4 days each), process being carried out, after approval of SAFIR Secretariat, in three broad fields :
 - Planning, interconnection and operation of the Power System;
 - Tariff and Licensing; and
 - Power Exchanges and Trading
- ✓ Bids invited through limited tender
- ✓ Last date of submission – 15th June 2022
- ✓ Training modules to be tentatively planned as 4-7 July, 18-21 July and 1-4 August 2022
- ✓ Training for 2-3 Regulators from each country for each module

- ✓ Training Programme in three modules of 4 days each
- ✓ Working Groups Members and Regulators of South Asian Countries
- ✓ Site Visit to Load Dispatch Centers/Power Utilities etc.



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Thank You