

A stylized world map in light blue and grey, centered in the background. Overlaid on the map are numerous colorful, concentric and intersecting lines in shades of green, blue, red, and yellow, resembling orbital paths or a global network. The lines are thicker in some areas and thinner in others, creating a sense of movement and connectivity.

Webinar Series: **Entry Point on Enhancing Power Grid Connectivity To Achieve Affordable And Clean Energy For All**

Entry points for accelerating the implementation of the 2030 Agenda for Sustainable Development in Asia and the Pacific

08 April 2020

Parallel Online Consultation for Entry Points:

Entry point 1 – Human well-being and capabilities

Entry point 2 – Sustainable and just economies

Entry point 3 – Food systems and nutrition patterns

Entry point 4 – Enhancing Power Grid Connectivity to Achieve Affordable Clean Energy for All

Entry point 5 – Urban and peri-urban development

Entry point 6 – Global environmental commons



Entry Point 4: ENHANCING POWER GRID CONNECTIVITY TO ACHIEVE AFFORDABLE CLEAN ENERGY FOR ALL

Lead Agency



In collaboration with:



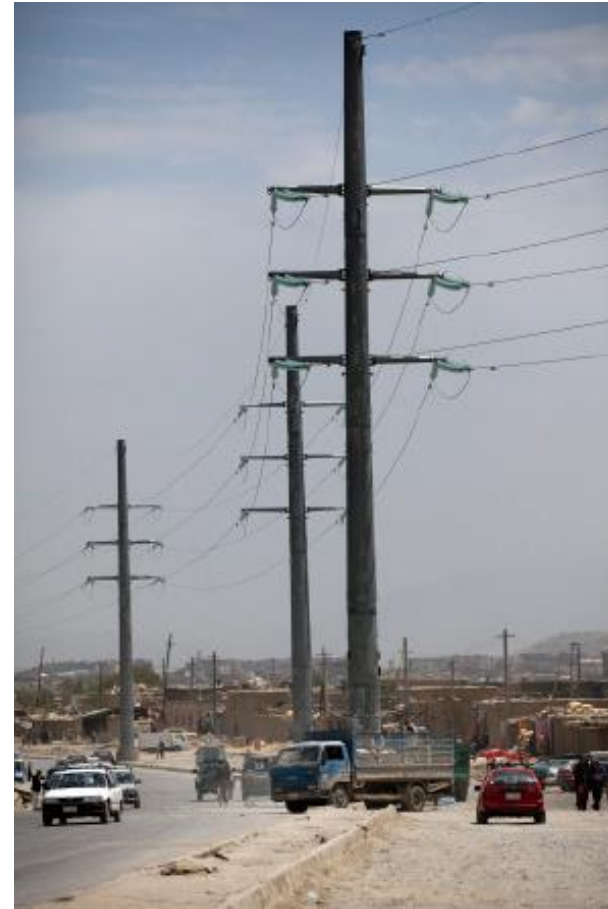
Entry Point 4: ENHANCING POWER GRID CONNECTIVITY TO ACHIEVE AFFORDABLE CLEAN ENERGY FOR ALL



I. ENHANCING POWER GRID CONNECTIVITY TO ACHIEVE AFFORDABLE CLEAN ENERGY FOR ALL

“The international community should... reduce the risk of fragmentation by encouraging cross-border, cross-sector and cross-vector strategic partnerships to accelerate progress along net-zero carbon pathways, and to secure new opportunities for global trade in clean electrons and clean molecules (gas and liquids), including hydrogen”.

(World Energy Council, 2019)



I. ENHANCING POWER GRID CONNECTIVITY TO ACHIEVE AFFORDABLE CLEAN ENERGY FOR ALL



- The potential for interconnection to help accelerate uptake of renewables is not yet fully appreciated.
- Connectivity can facilitate renewable energy growth by linking remote renewable energy resources with demand centres, improving economies of scale, and enabling higher renewables penetration.

UN General Assembly Resolution 74/225 called for strengthened cooperation to promote innovation, facilitate financing and share best practice approaches to support appropriate regional cross-border power grid connectivity



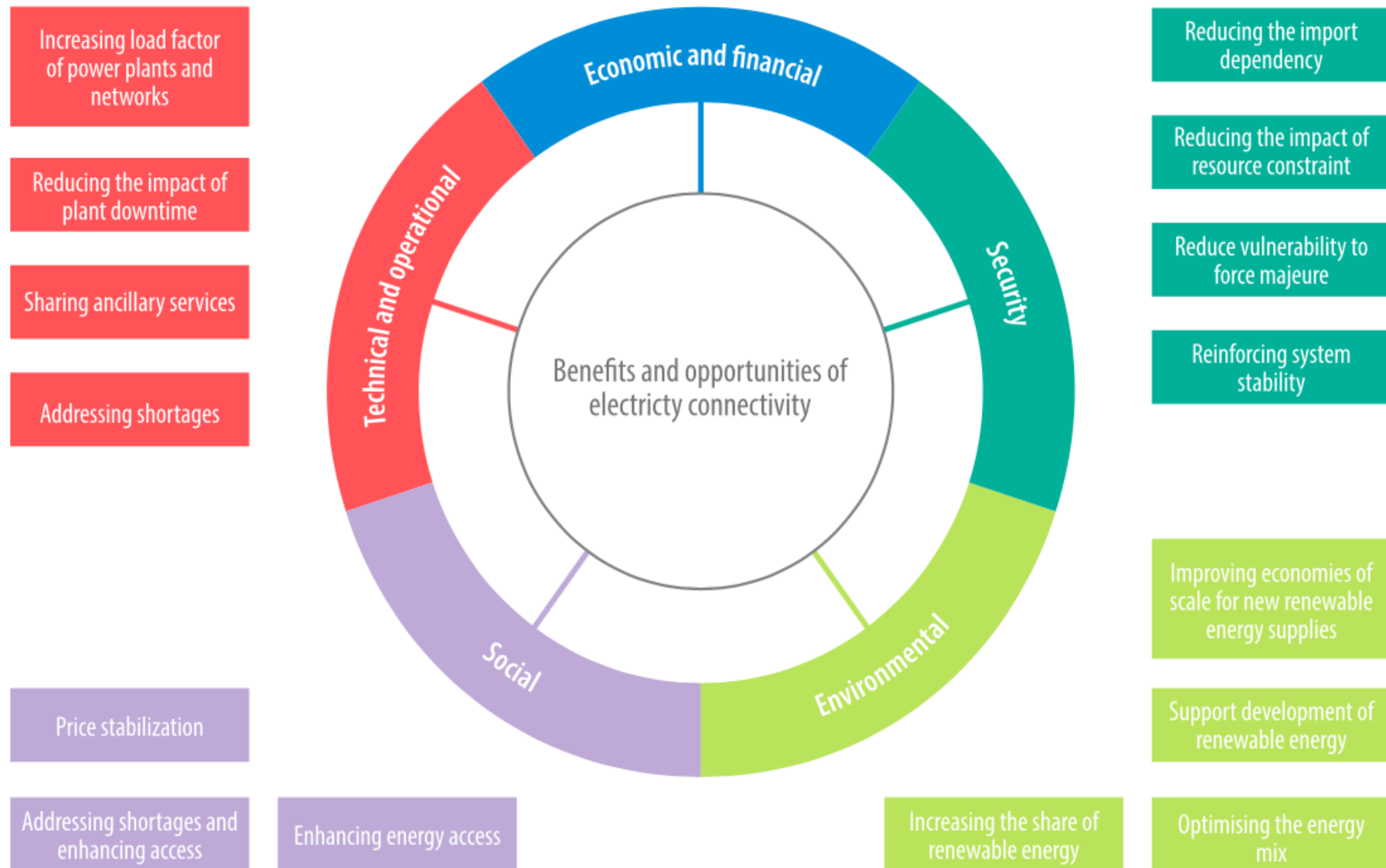
Revenue generation

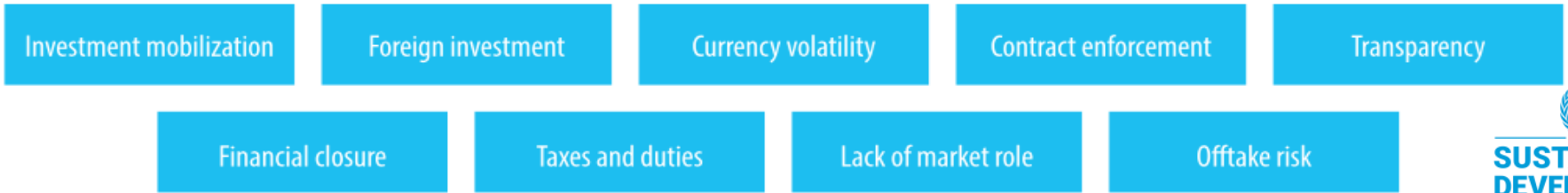
Optimising the use of regional resources

Supporting an emerging international energy (electricity) market

Enabling least cost dispatch

II. BENEFITS AND OPPORTUNITIES





III. CHALLENGES AND BARRIERS

- Policy alignment
- Technical standards
- Harmonization of regulations
- Transmission planning
- Institutional frameworks
- Creation of integrated markets

Construction capacity

Land acquisition

Resettlement and rehabilitation



Trust

Relationships

Energy security

Political uncertainty

Consensus

Data

Technical standards

Dispute resolution

Grid codes

IV. EXISTING AND PLANNED SUB-REGIONAL INITIATIVES

- North-East Asian Supergrid
- SAARC Energy Ring
- ASEAN Power Grid
- Emerging initiatives (e.g. Australia – Indonesia renewable energy links)



V. ROUNDTABLE POLICY RECOMMENDATIONS FOR ACCELERATION

- **Policy Recommendation 1.**

Strengthen political commitment for enhancing power grid connectivity.

- **Policy Recommendation 2.**

Strengthen regional cooperation on power transmission policy, planning and operations.

- **Policy Recommendation 3.**

Ensure that adequate finance, trade and innovation agreements are in place.

- **Policy Recommendation 4.**

Build capacity in relevant technical and policy domains and share learnings from successes.

- **Policy Recommendation 5**

Post-pandemic stimulus funding towards sustainable energy infrastructure.



Thank You

