

# Expert Working Group Meeting on Energy Connectivity

China

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# China

## Five Major Challenges in Promoting Cross Border Electricity Connectivity

- \* Concerns on energy security
- \* Lack of cooperation mechanism
- \* Different technical standards between different power systems
- \* Dispatching / control of interconnected power systems
- \* Power market design

## Concrete Examples and Good Practices in Addressing the Challenges

- \* China-Russia: 5 circuits, 500/220/110kV, 3.35 TWh/a (im.)
- \* China-Mongolia: 12 circuits, 500/220/110kV, 1 TWh/a (ex.)
- \* China-Vietnam: 7 circuits, 220/110kV, 2.07 TWh/a (ex.)
- \* China-Laos: 3 circuits, 110/35/10kV, 0.24 TWh/a (ex.)
- \* China-Myanmar: 4 circuits, 500/220/110kV, 1.4 TWh/a (im.)
- \* The total interconnection scale is still small: 2.6GW (0.16% of total installed capacity), 8 TWh/a (0.13% of total consumption)

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## Role of regional cooperation in addressing the challenges.

- \* Coordination of policies and development strategies
- \* Interconnection planning studies
- \* Studies in technical standards, unified dispatching, and market design
- \* Disputes settlement

## What should be the main building blocks in developing the regional roadmap.

- \* Technical interconnection blue print
- \* Market design
- \* Technical standards & Dispatching model
- \* Security guarantees & Disputes settlement mechanisms

# THANK YOU

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