



**Super-girds and their influence in facilitating
the deployment of renewable energy globally**

Global Energy Interconnection

Global Energy Interconnection
Development and Cooperation Organization(GEIDCO)

September 2018 in Bonn



What is GEI ?

- Clean Energy
- Ultra High Voltage Grids
- Smart Grids



UN Secretary-General, Mr. António Guterres

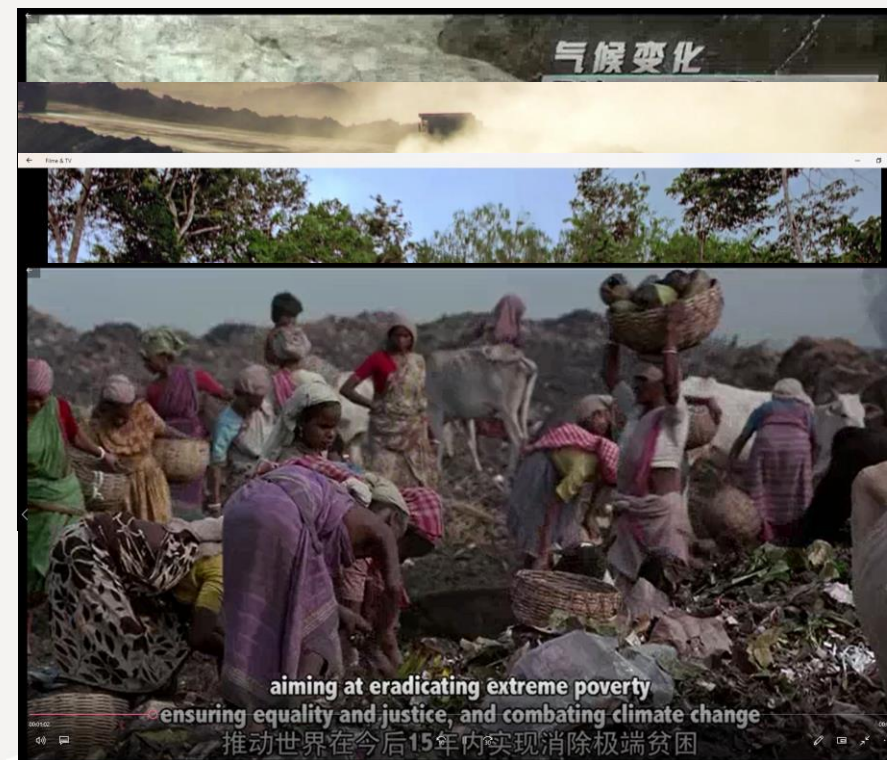
“Global interconnectivity for energy to reach everybody in need is the center of the two concepts, i.e. sustainability and inclusivity, of our commitment to Agenda 2030 and combating climate change. GEI, with a strong call for enhancing international energy cooperation, is critical to the 2030 Agenda and to the implementation of the Paris Agreement”

“The Global Energy Interconnection Initiative provides a key to solutions that can efficiently use rich and renewable resources, such as wind, solar and hydal, to deliver modern energy services to all even at long distances”



Why GEI ?

- Climate Changes
- Environmental Pollutions
- Sustainable Development
- Unbalanced Development



Solution: Global Energy Interconnection

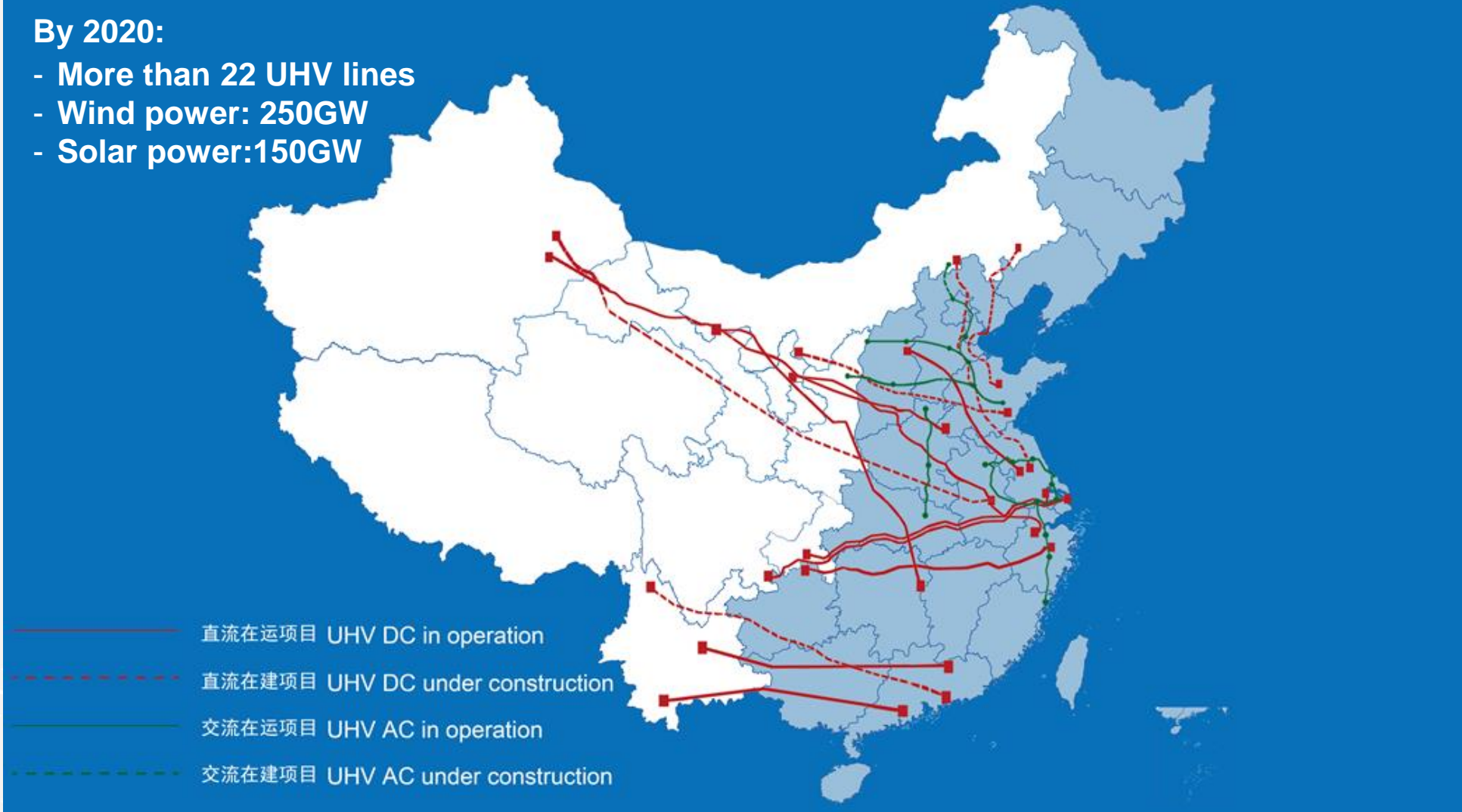
China's successful experiences: UHV Technology



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By 2020:

- More than 22 UHV lines
- Wind power: 250GW
- Solar power: 150GW



China's successful experiences: Smart Grid

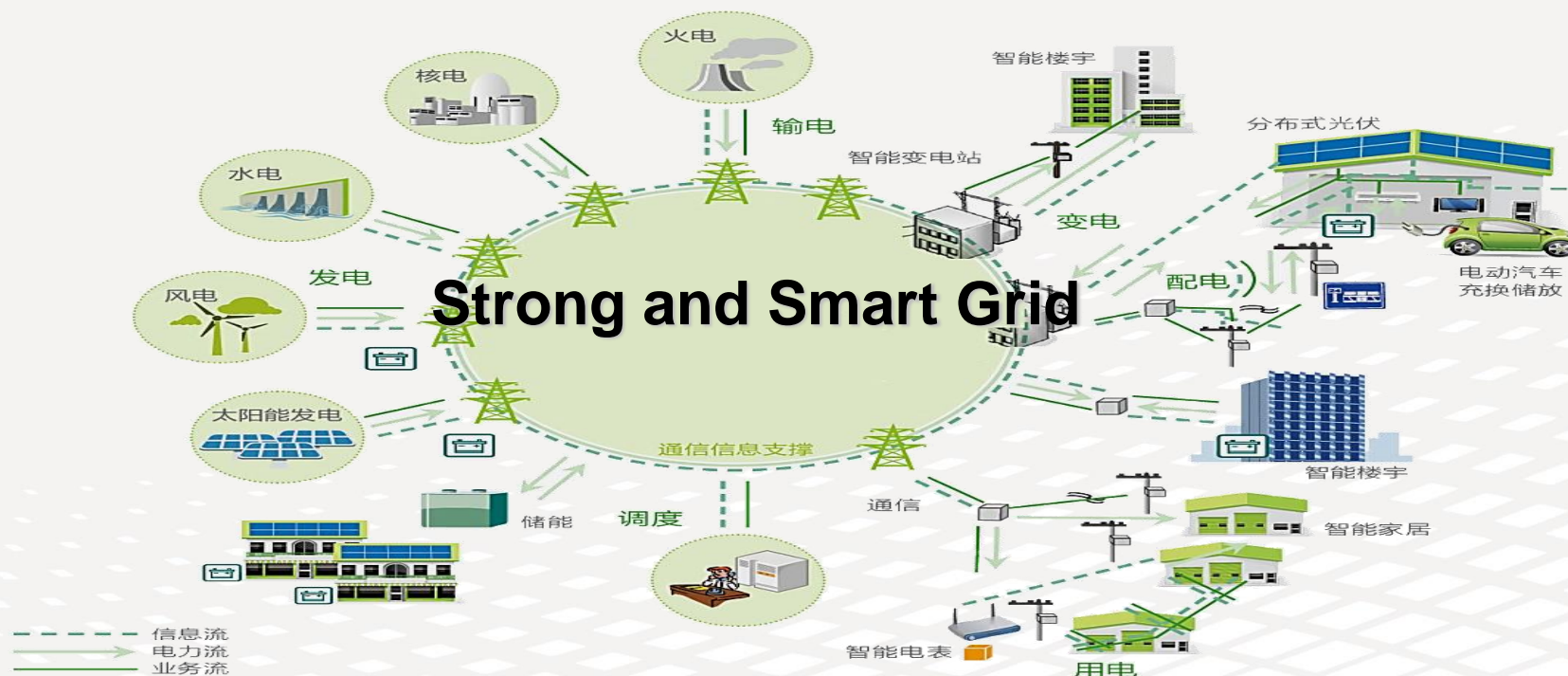


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By 2026:
Challenges: 'DII'

- More smart power lines
- Wind power: 150GW
- Solar power: 150GW
- Digitalization
- Integration of Renewable Energies
- Integration of e-Mobilities
- 7 days only clean energy integrated in Qing Qinghai Province (1.178 TWh)

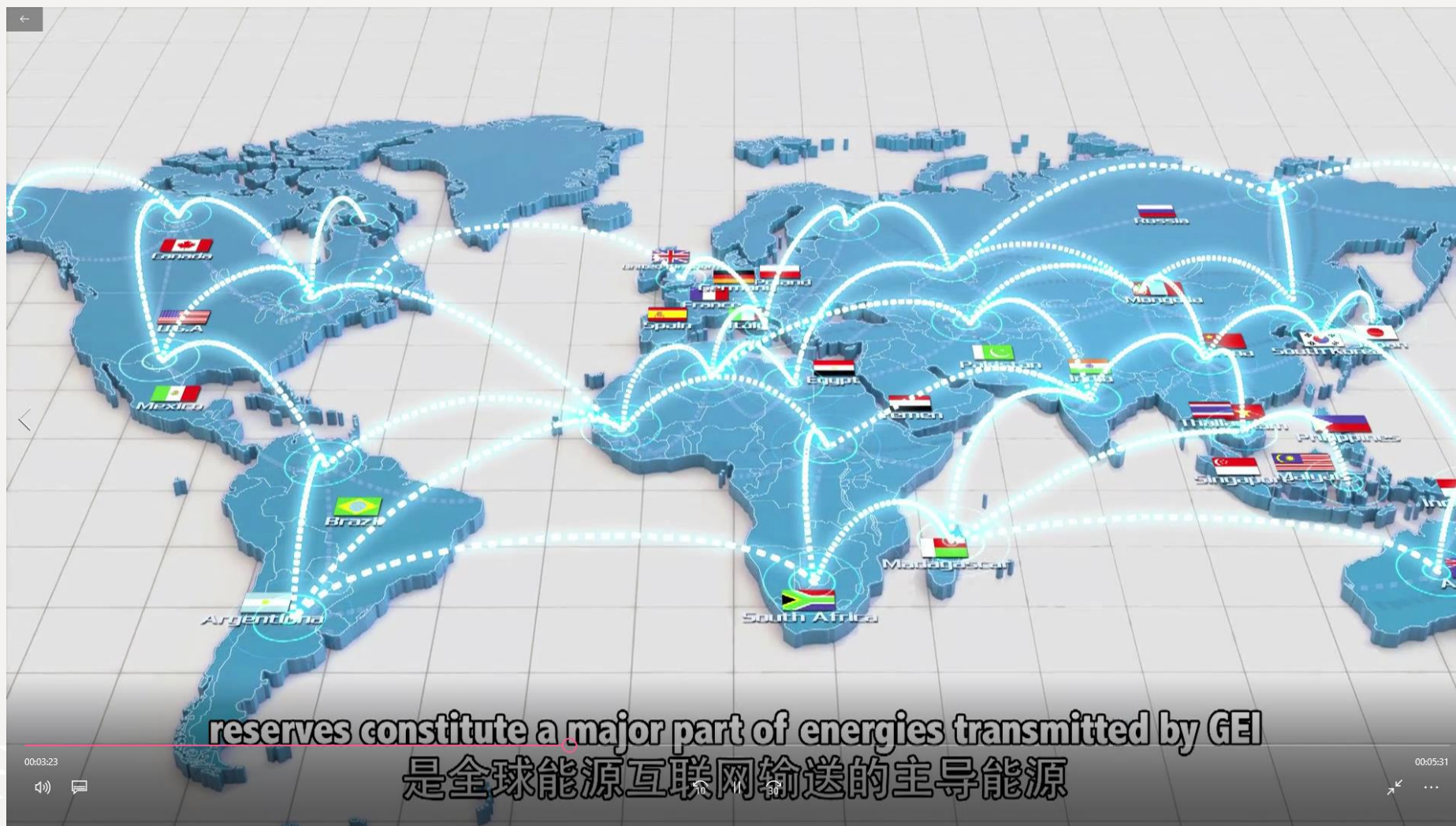
- Smart Substations: 2700
- Smart Meters: 430 million
- EV Charging Stations/Poles: 1 million
- Pumping Storage (57 Plants): 65 GW



Vision of Global Energy Interconnection



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Thank you