

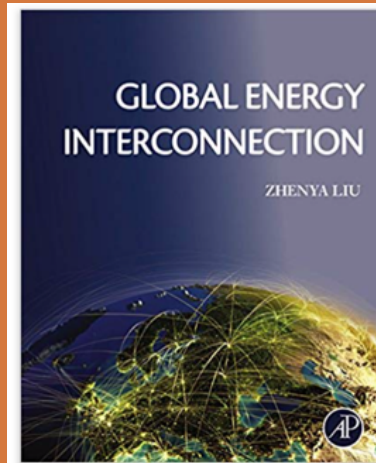
Global Energy Interconnection Development and Cooperation Organisation

GEIDCO's plan for a global sustainable energy system

23rd REFORM Group Meeting
Salzburg 2019-10-17

Tomas Kåberger

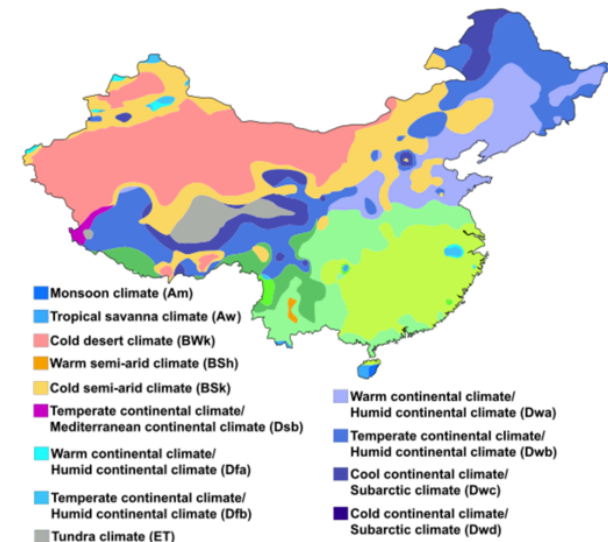
Affiliate professor Chalmers University of Technology
Industrial Growth Executive InnoEnergy
Member of the Swedish Climate Policy Council
Executive Board Chair of Renewable Energy Institute, Tokyo
Senior Advisor GEIDCO, Beijing



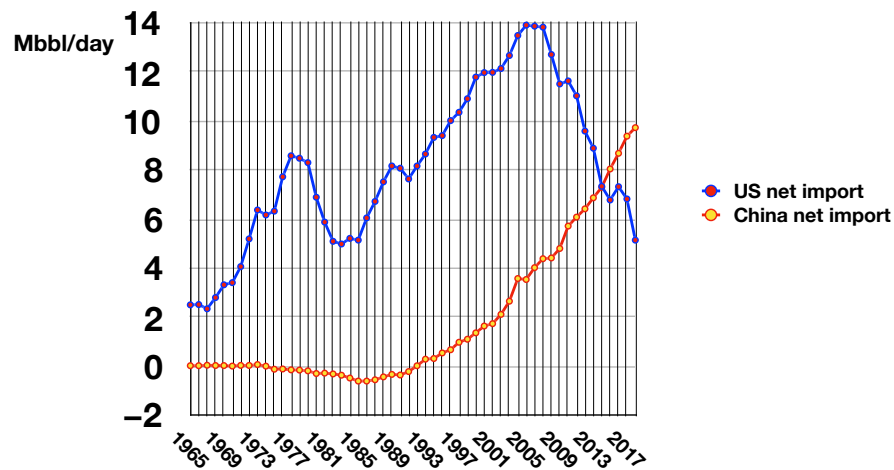
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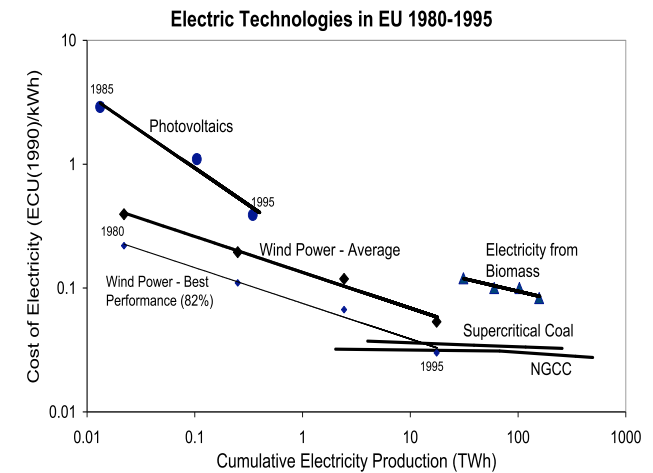
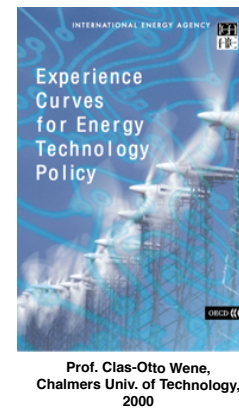
-China will suffer from climate change just like the rest of the world will



US - China net oil import 1965-2018



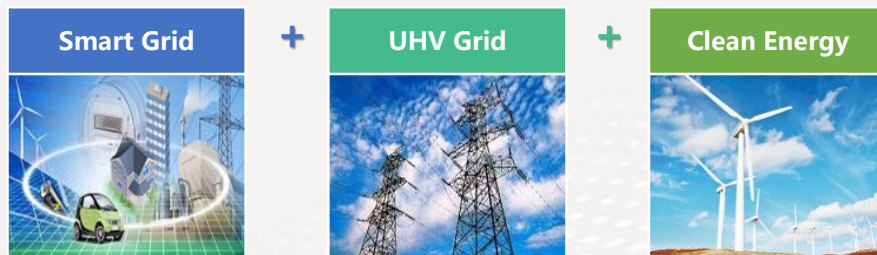
Industrial learning by experience



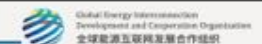
What is GEI?



GEI = "Smart Grid + UHV Grid + Clean Energy"
It provide a systematic solution for the world' s energy transition and sustainable development.



What is GEI?



■ Clean energy-dominant approach is the future of energy transition



Two Replacements

Clean replacement in electricity production; electricity replacement in fuel consumption.

One Restore

Restore fossil fuel to industrial raw material. The economic value generated by crude oil, as a raw material, is 1.6 times that of the value when used as fuel.

Push GEI development to a new level



■ Accelerate technical innovation



±800kV Flexible DC



±800kV Submarine Cable



Efficient Clean Energy Power Generation



Large-capacity Energy Storage

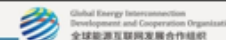


Smart Control of Large-scale Interconnected Power Grid



EITI

How do we build GEI?



■ In general, GEI will be advanced in three stages.

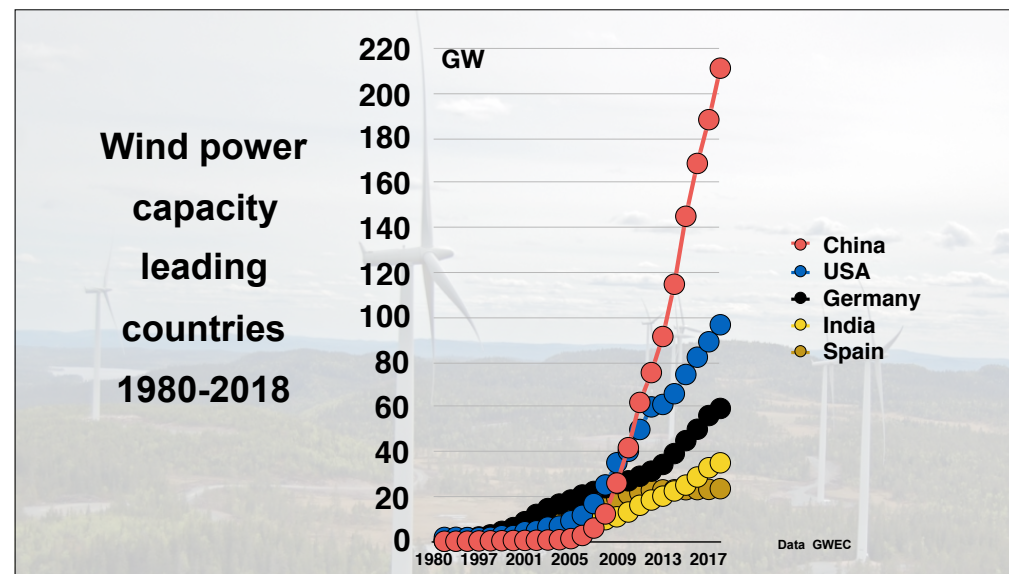
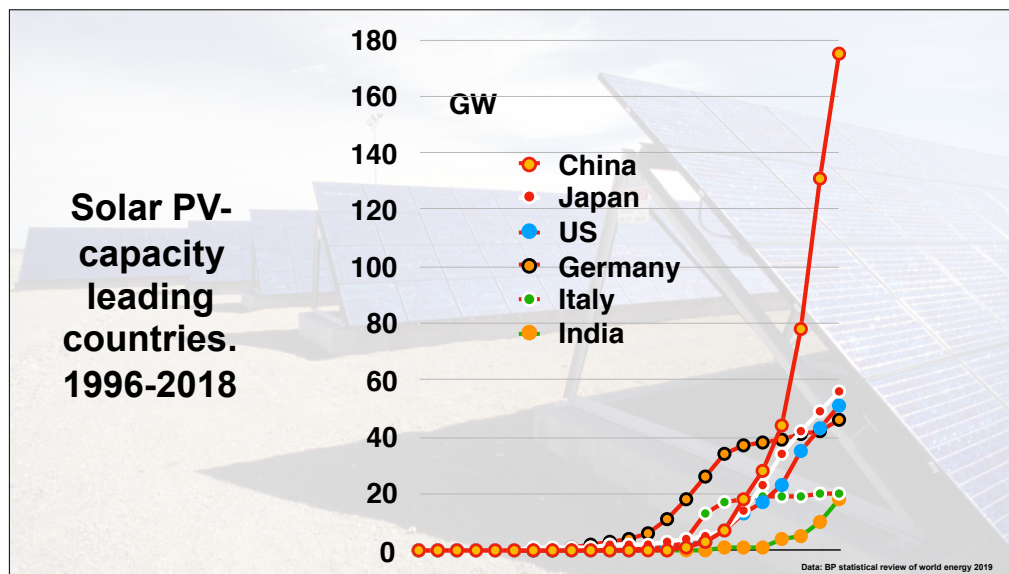
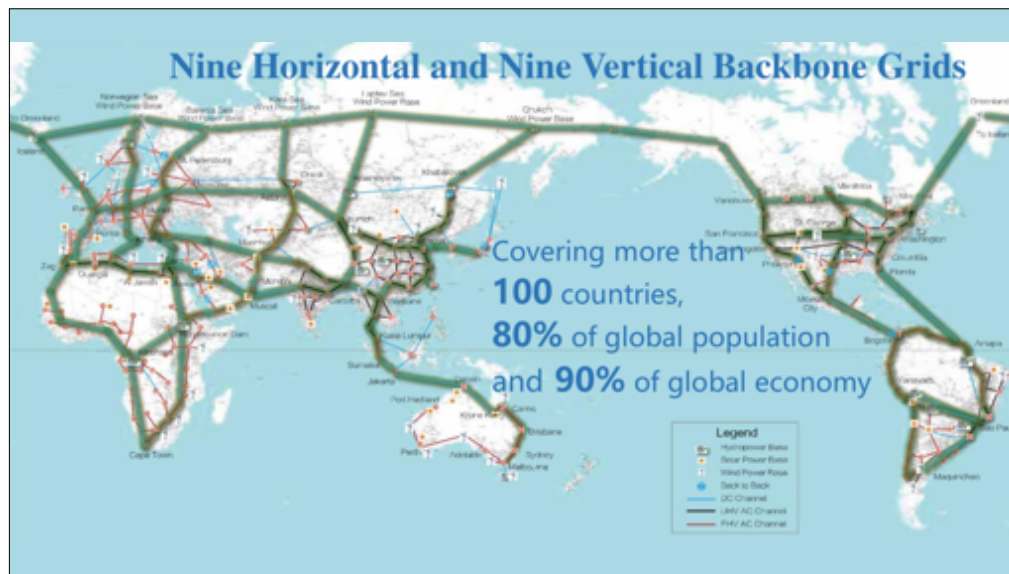


Stage Three (2050):
International Interconnection

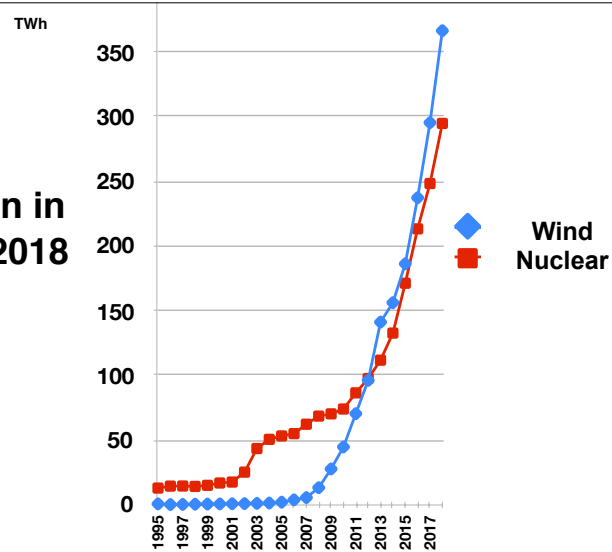
Stage Two (2035):
Intracontinental Interconnection

Stage One (2025):
Domestic Interconnection

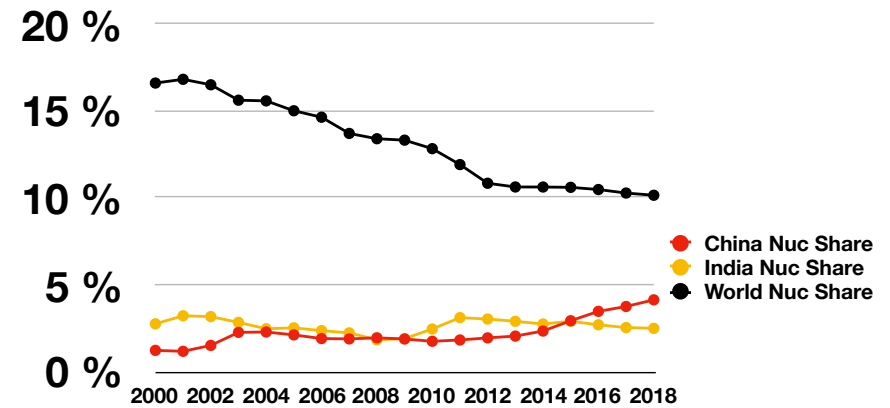




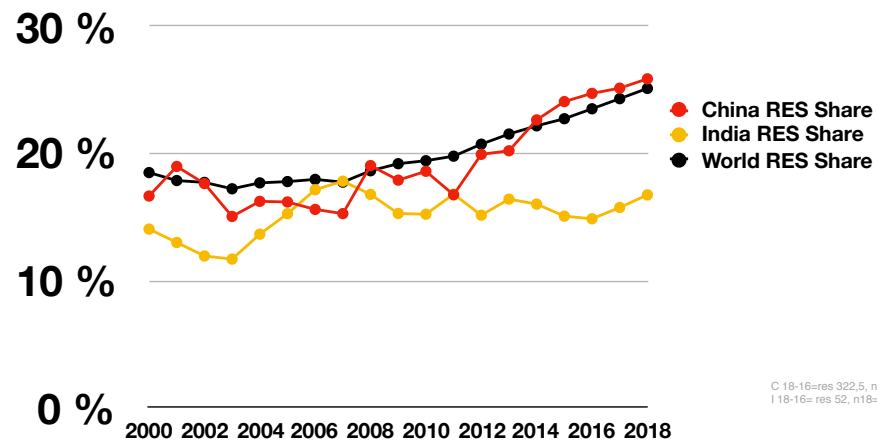
El-production in China 1995-2018



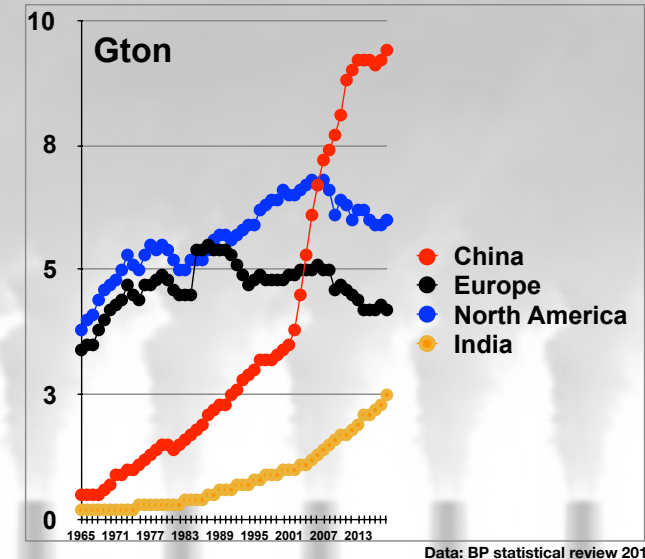
Nuclear share of electricity: China, India and the World



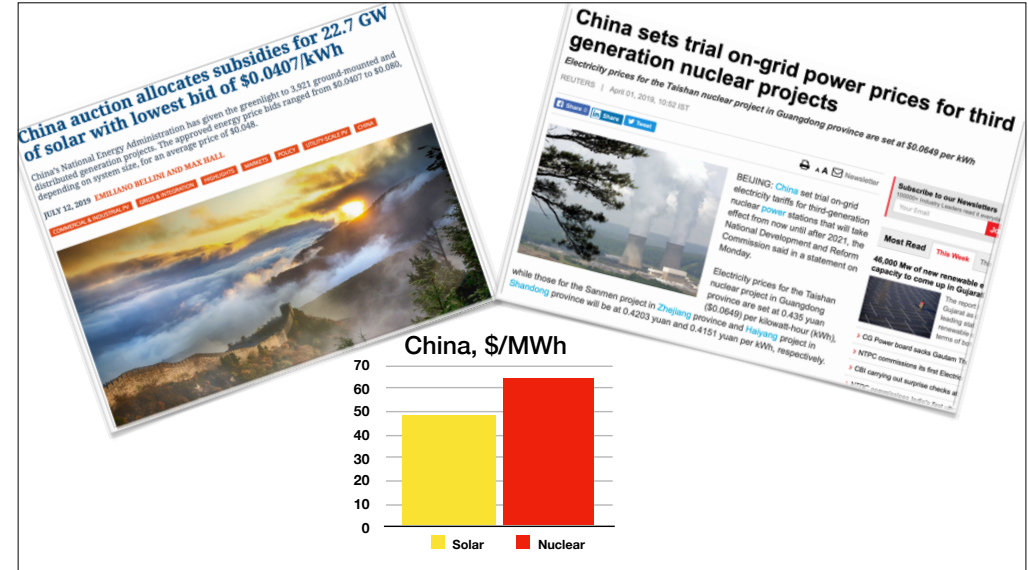
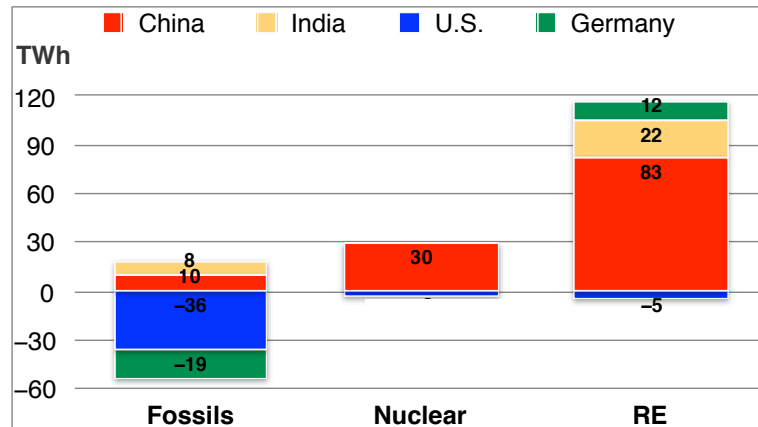
Renewable share of electricity: China, India and the World



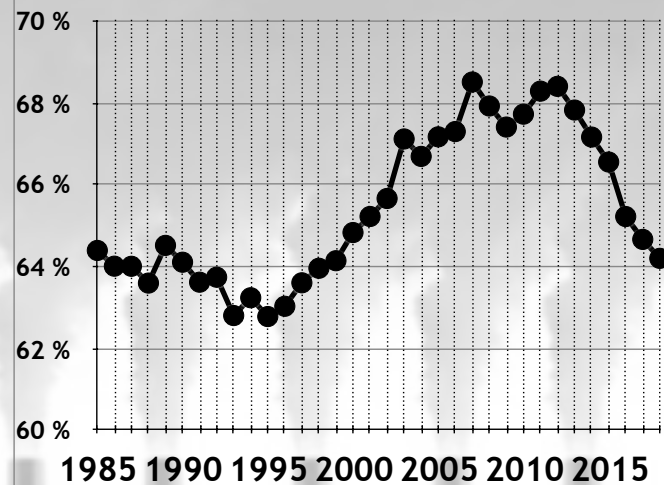
CO₂-emission from fossil fuels leading, regions 1965- 2018



Electricity production H12019-H12018

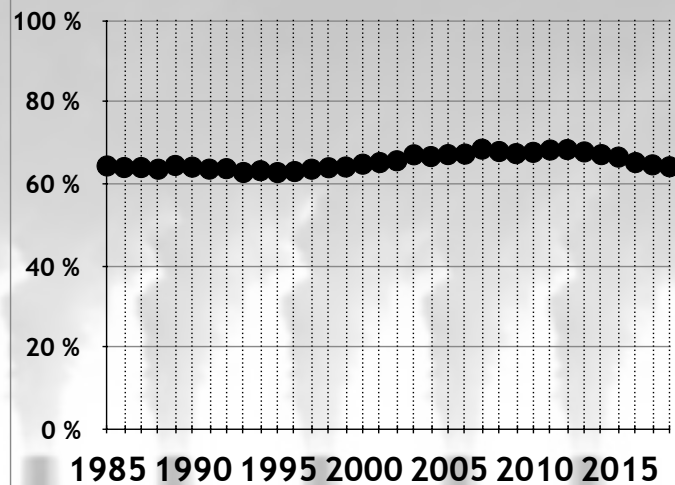


Fossil Share of Global Electricity generation 1985-2018



Data: BP statistical review 2019

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Data: BP statistical review 2019

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