

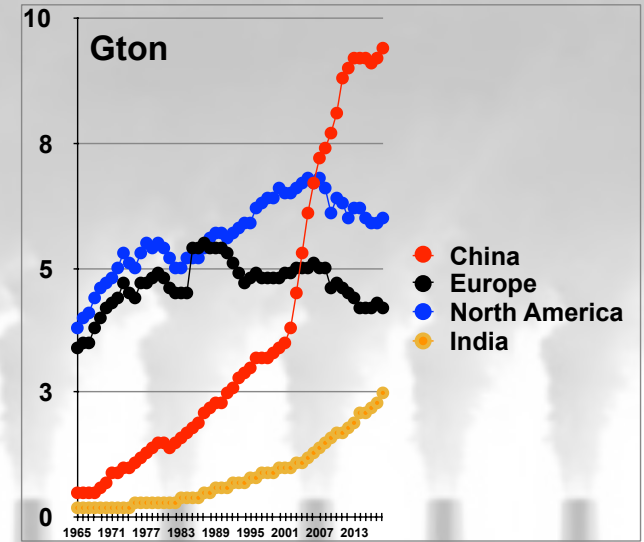
Energi i Kina och Indien

Forum för Globala Energifrågor
Stockholm 2019-10-02

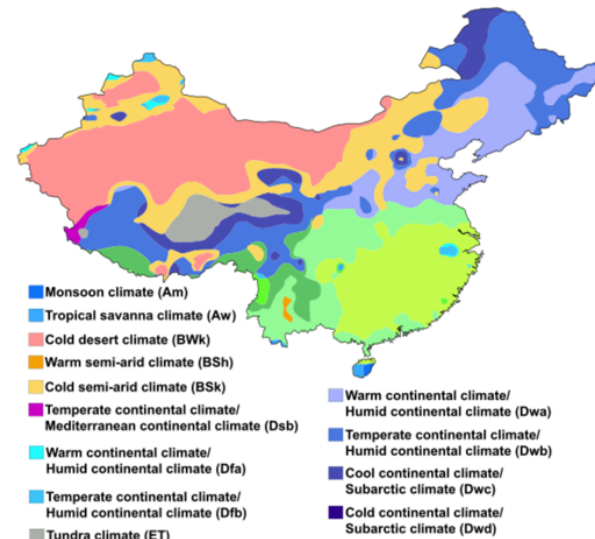
Tomas Kåberger

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Executive Board Chair of Renewable Energy Institute, Tokyo
Senior Advisor GEIDCO, Beijing

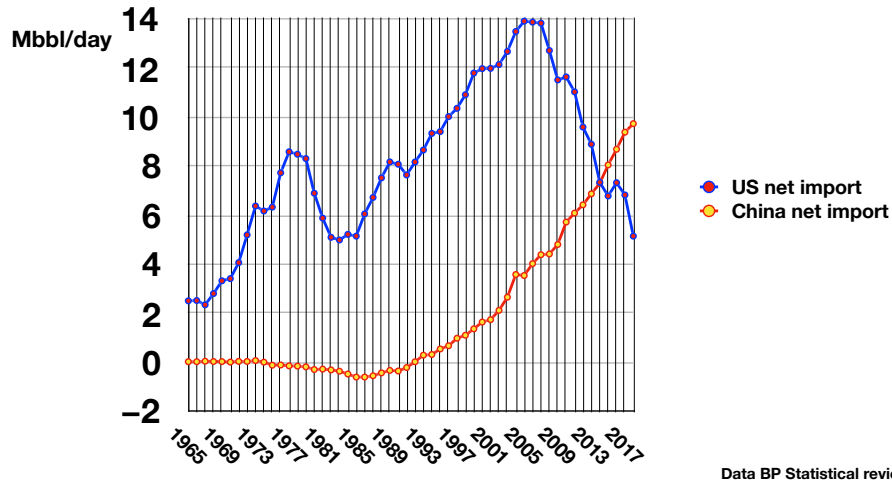
CO₂-emission from fossil fuels leading, regions 1965- 2018



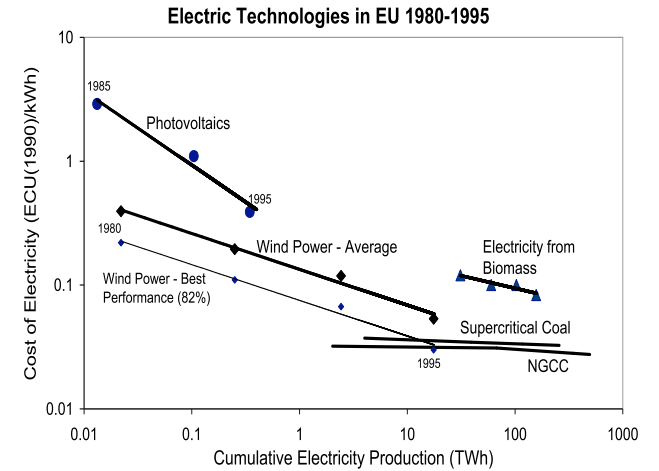
Data: BP statistical review 2019



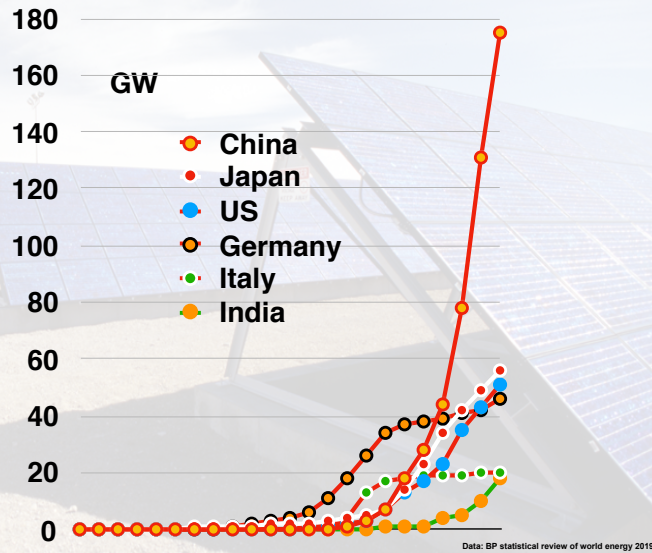
US - China net oil import 1965-2018



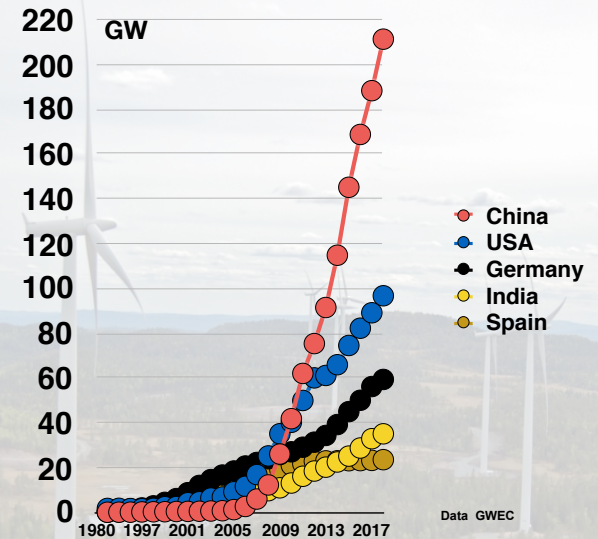
Industrial learning by experience



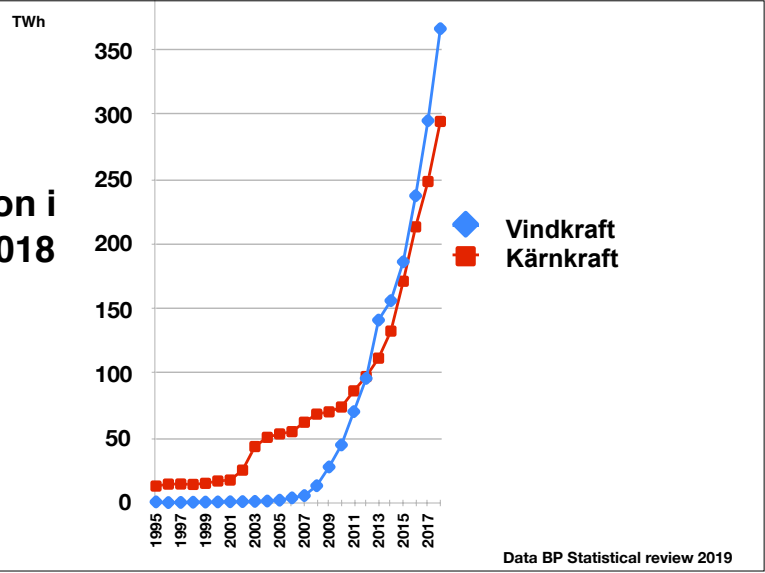
Solar PV-capacity leading countries. 1996-2018



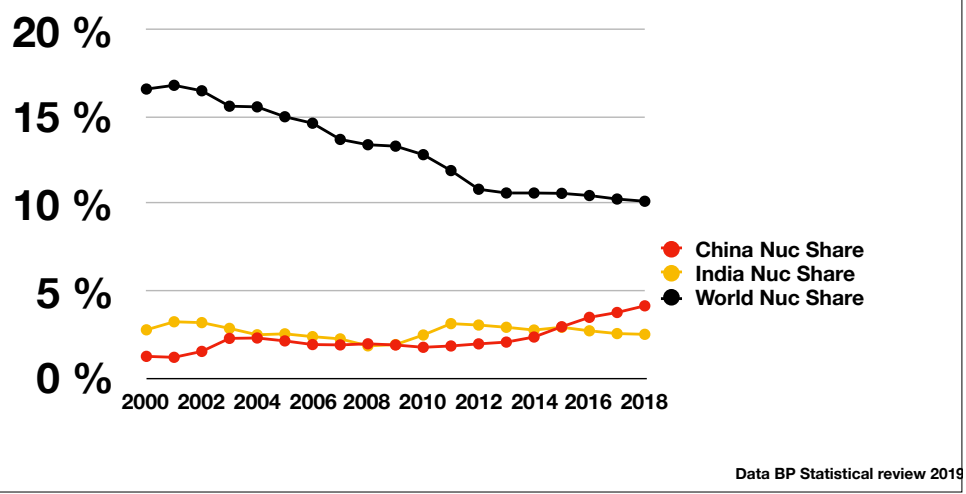
Wind power capacity leading countries 1980-2018



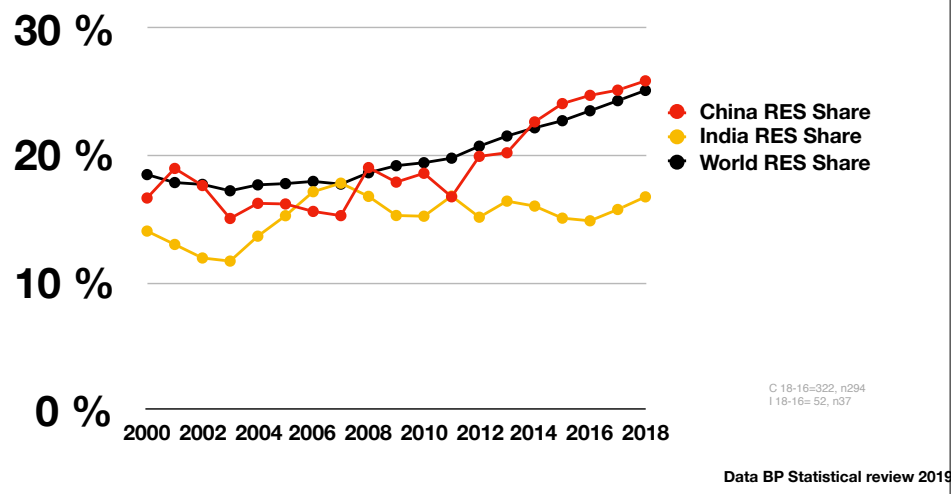
El- produktion i Kina 1995-2018



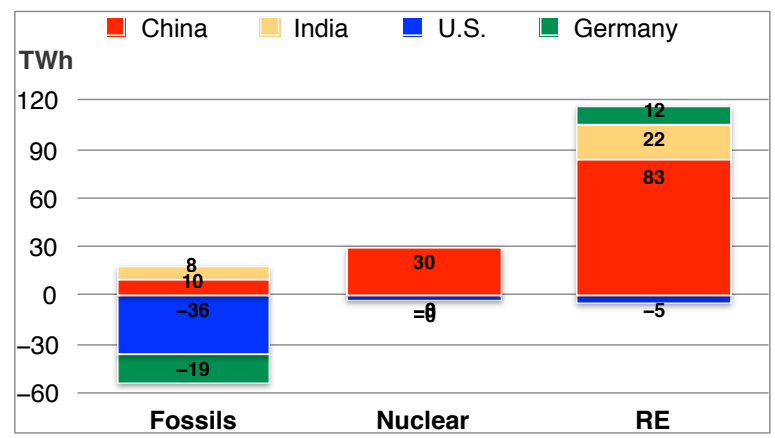
Andel kärnkraftsel: Kina, Indien och världen



Andel förnybar el: Kina, Indien och världen



Electricity production H12019-H12018





India Formally Proposes Incentives For Electric Vehicles

June 27th, 2019 by Smitti

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The Indian government has formally proposed amendments to the country's transport regulations to include incentives for electric vehicles.

What is GEI?

GEI = "Smart Grid + UHV Grid + Clean Energy"

It provide a systematic solution for the world' s energy transition and sustainable development.

Smart Grid

+

UHV Grid

+

Clean Energy

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.

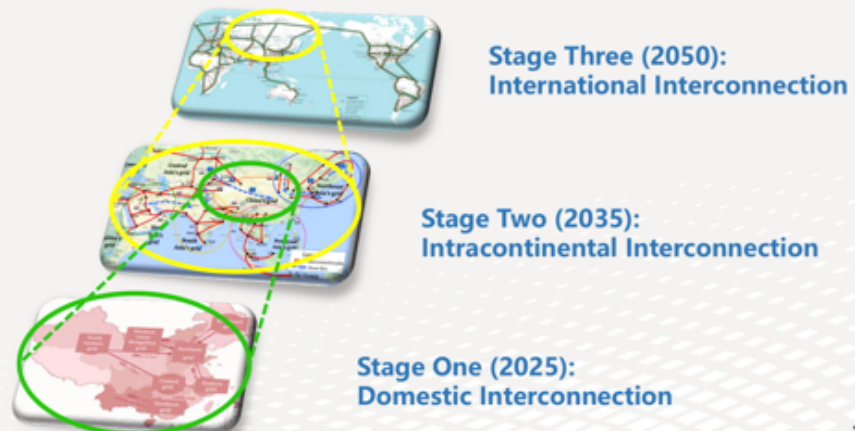
Push GEI development to a new level

Accelerate technical innovation



How do we build GEI?

In general, GEI will be advanced in three stages.



India is now producing the world's cheapest solar power

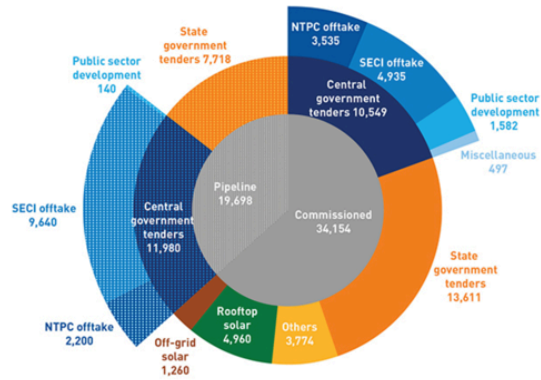


The costs of building large-scale solar installations in India fell by 27% year-on-year.

Image: REUTERS/Amit Dave



Figure: Total installed and pipeline capacity at the end of June 2019, MW



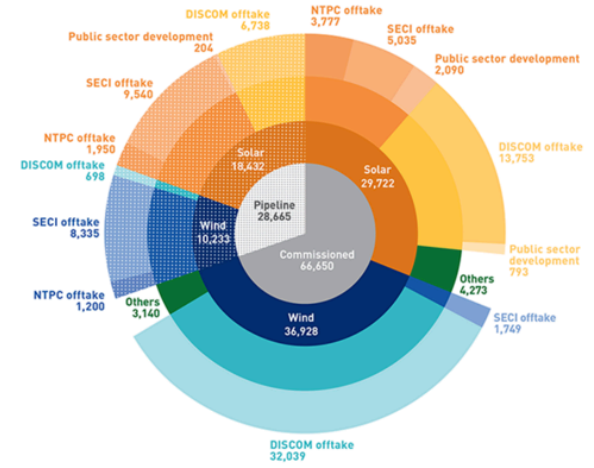
Source: BRIDGE TO INDIA research, MNRE

Note: 'Others' include projects executed under open access, REC and other miscellaneous categories.

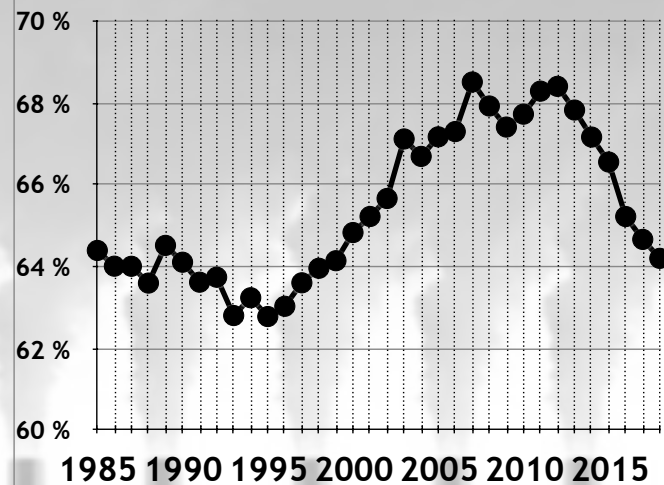
Än fossil elproduktion i Indien kom mindre än hälften av den nya elproduktionskapaciteten från förnybar energi 2016, 2017 var det två tredjedelar och 2018 tre fjärdedelar.

Total utility scale wind and solar capacity as on 30 September 2019¹

All figures in MW

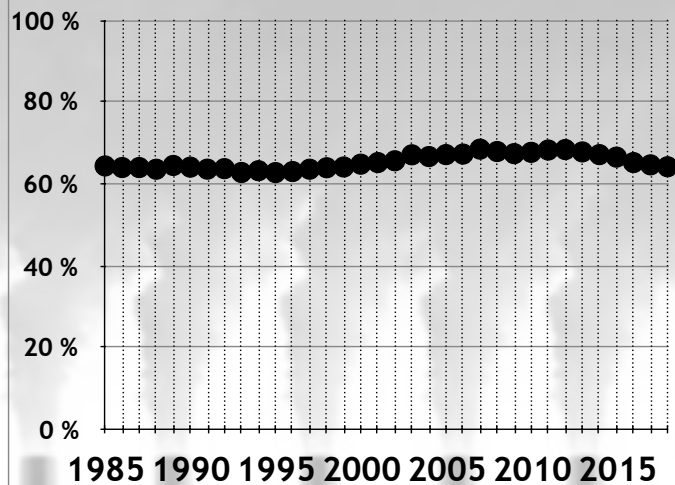


Fossil Share of Global Electricity generation 1985-2018



Data: BP statistical review 2019

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