

Global Renewable Revolution

Tokyo REvision webinar 2020-03-04

Tomas Kåberger

Executive Board Chair of Renewable Energy Institute, Tokyo

Affiliate professor Chalmers University of Technology

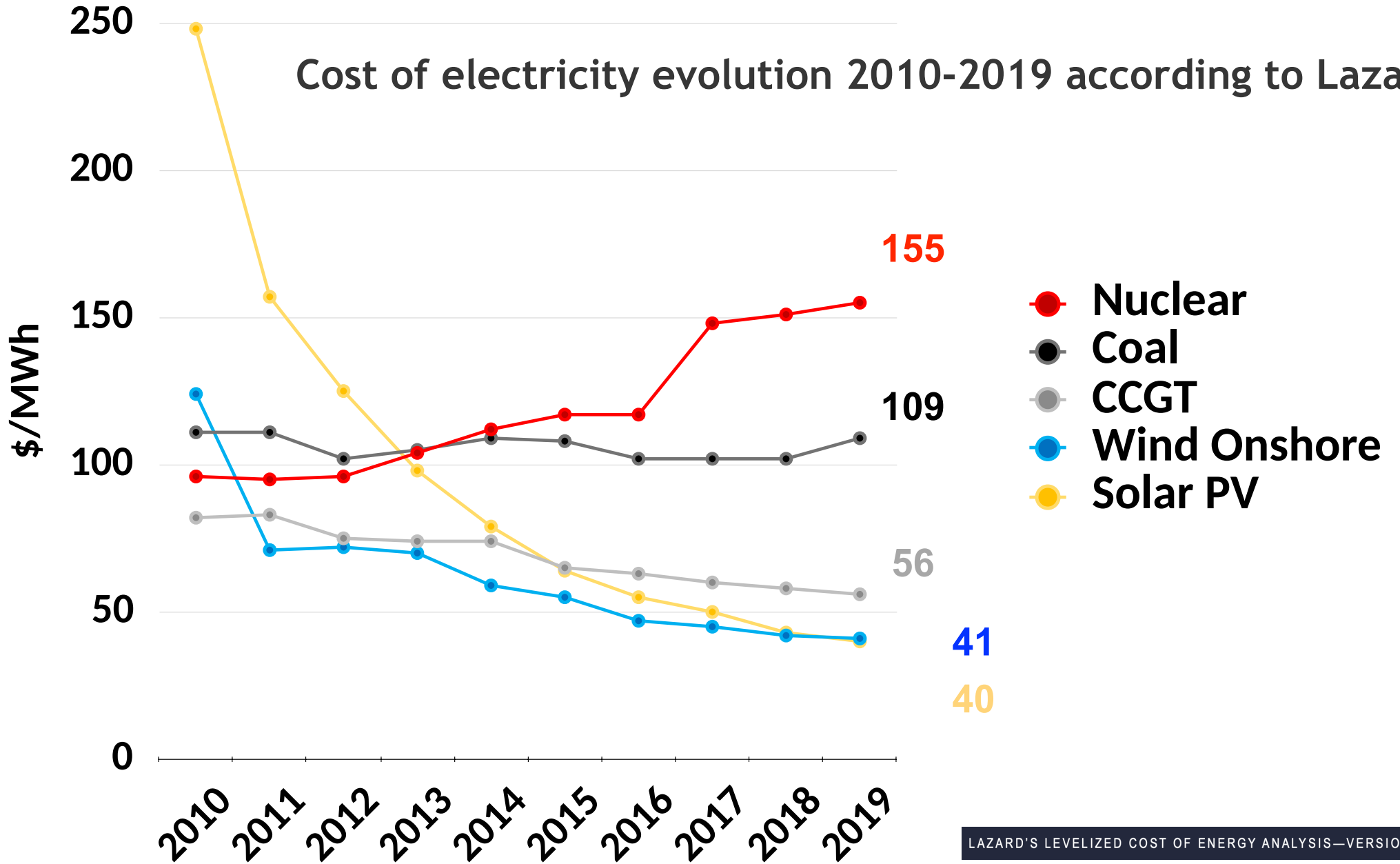
Industrial Growth Executive InnoEnergy

Executive Board Chair Renewable Energy Institute

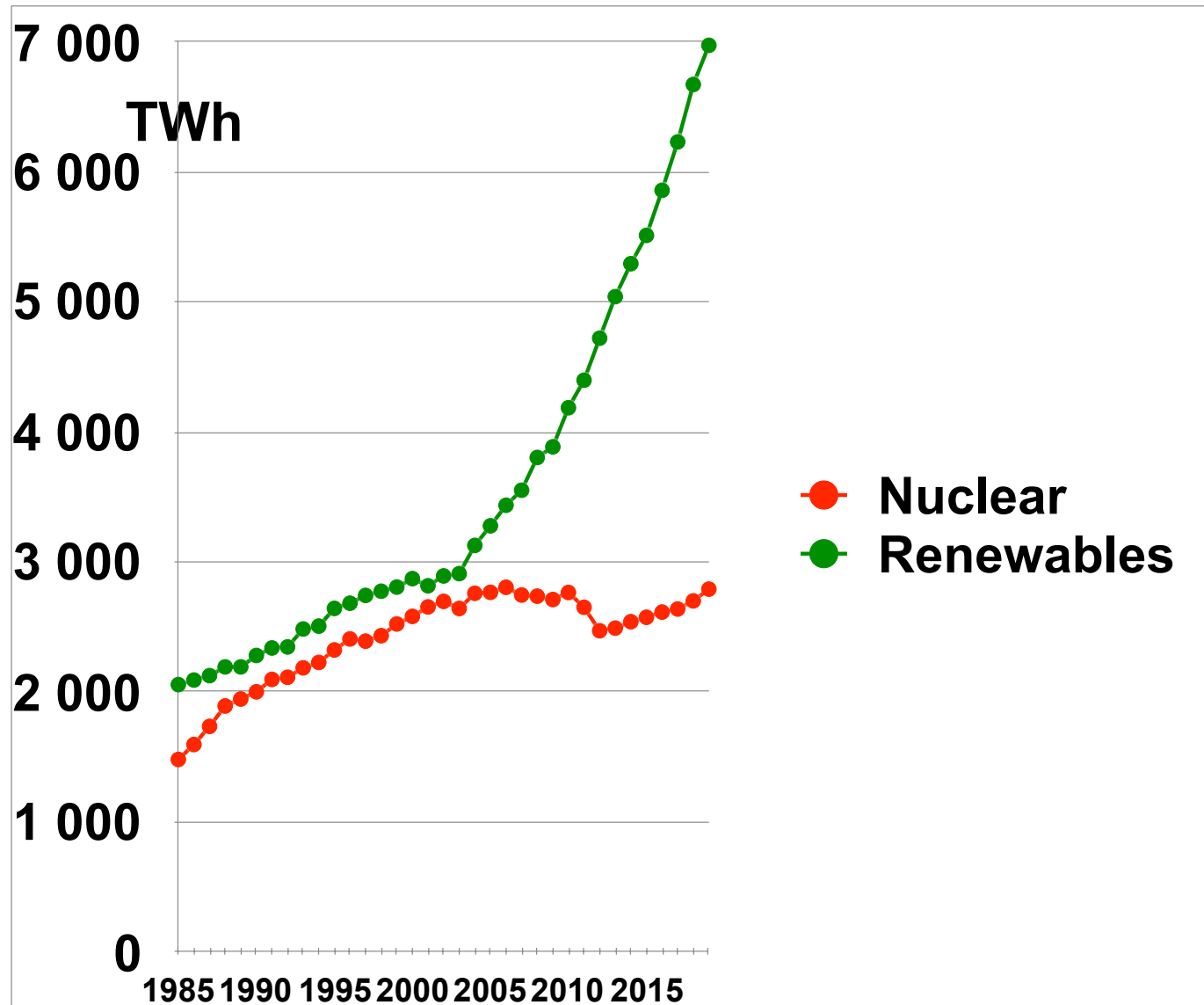
Member of the Swedish Climate Policy Council

Member of the Swedish Royal Academy of Engineering Sciences

Cost of electricity evolution 2010-2019 according to Lazard



Non-fossil electricity generation globally, 1985-2019



Data: BP Statistical Review 2019, inspired guess for 2019

Global Wind power capacity 1980-2019

GW

600

500

400

300

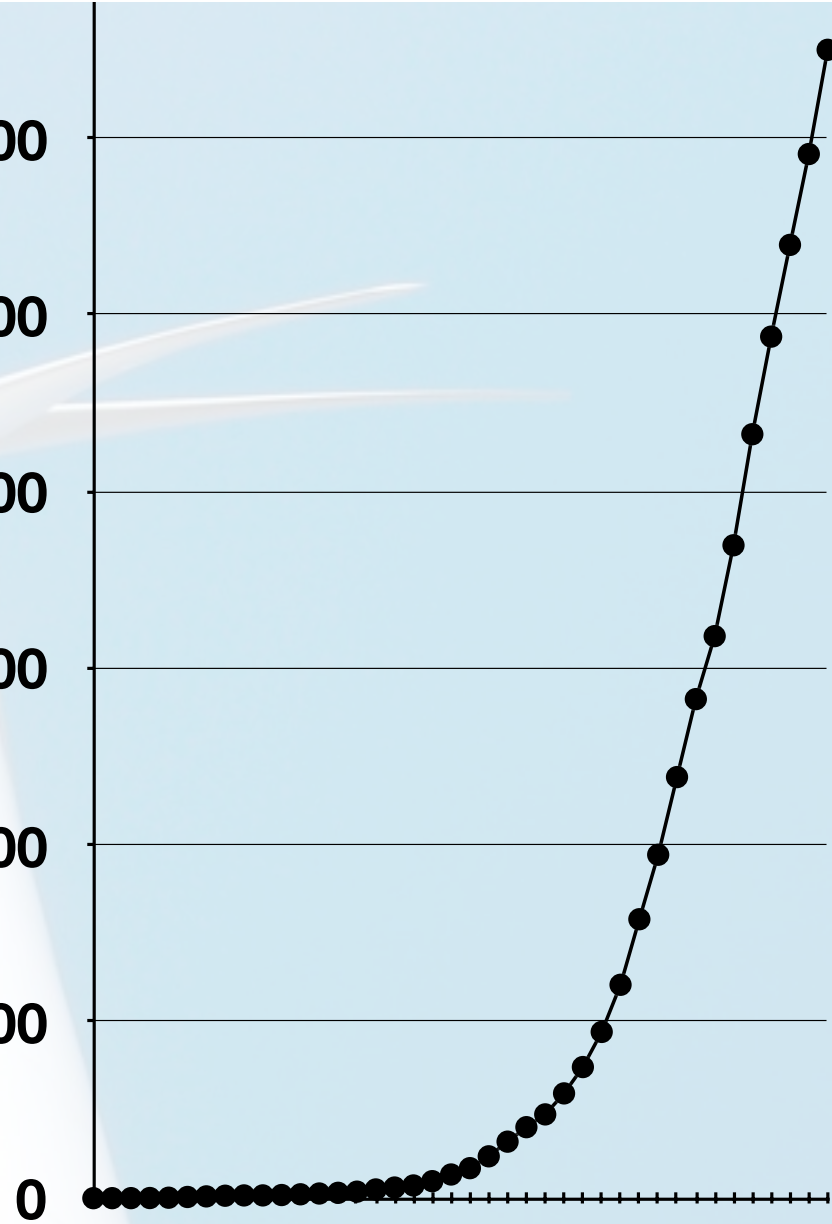
200

100

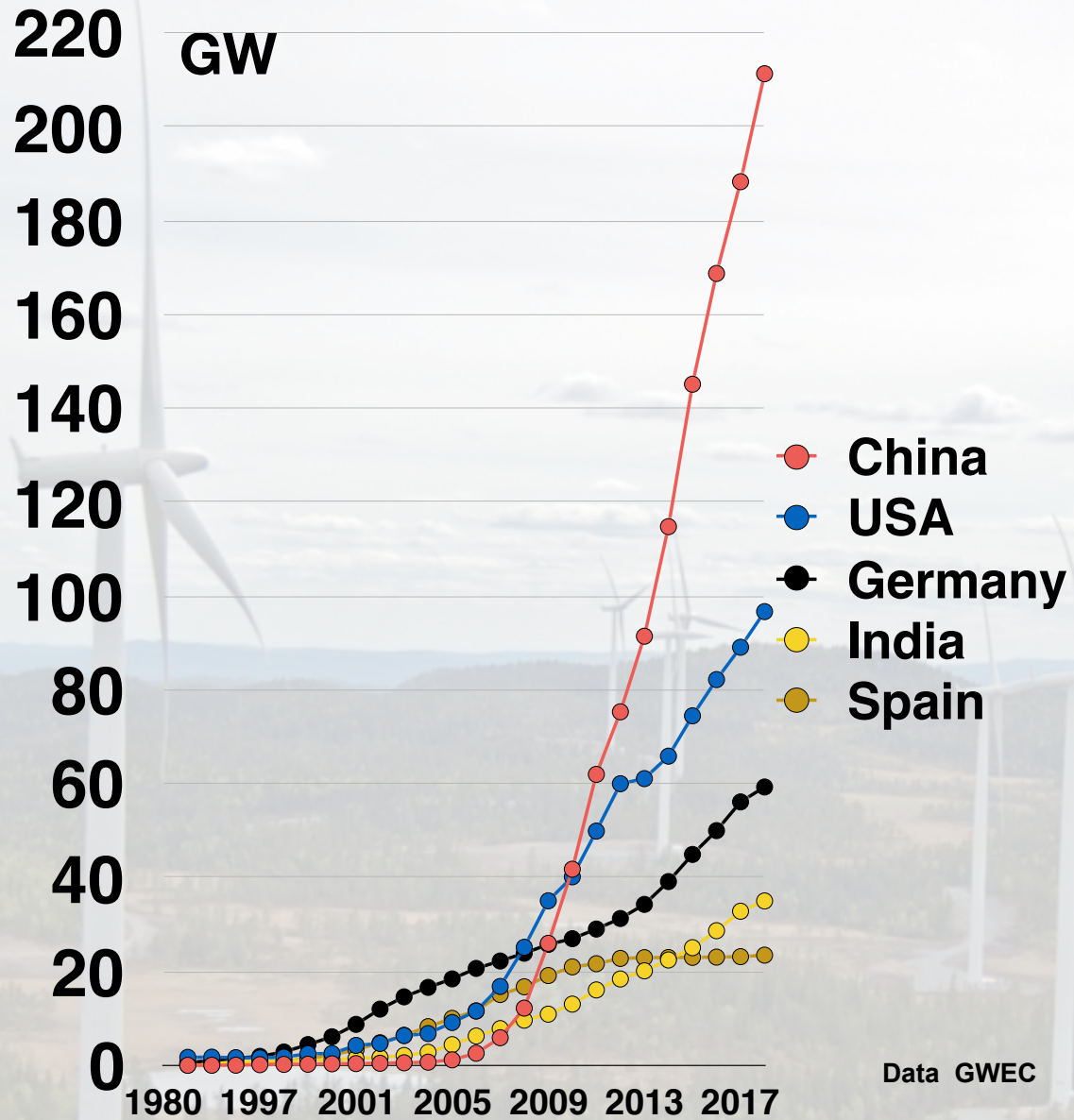
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1980 1985 1990 1995 2000 2005 2010 2015

Data: GWEC, 2019 (2019 inspired guess)

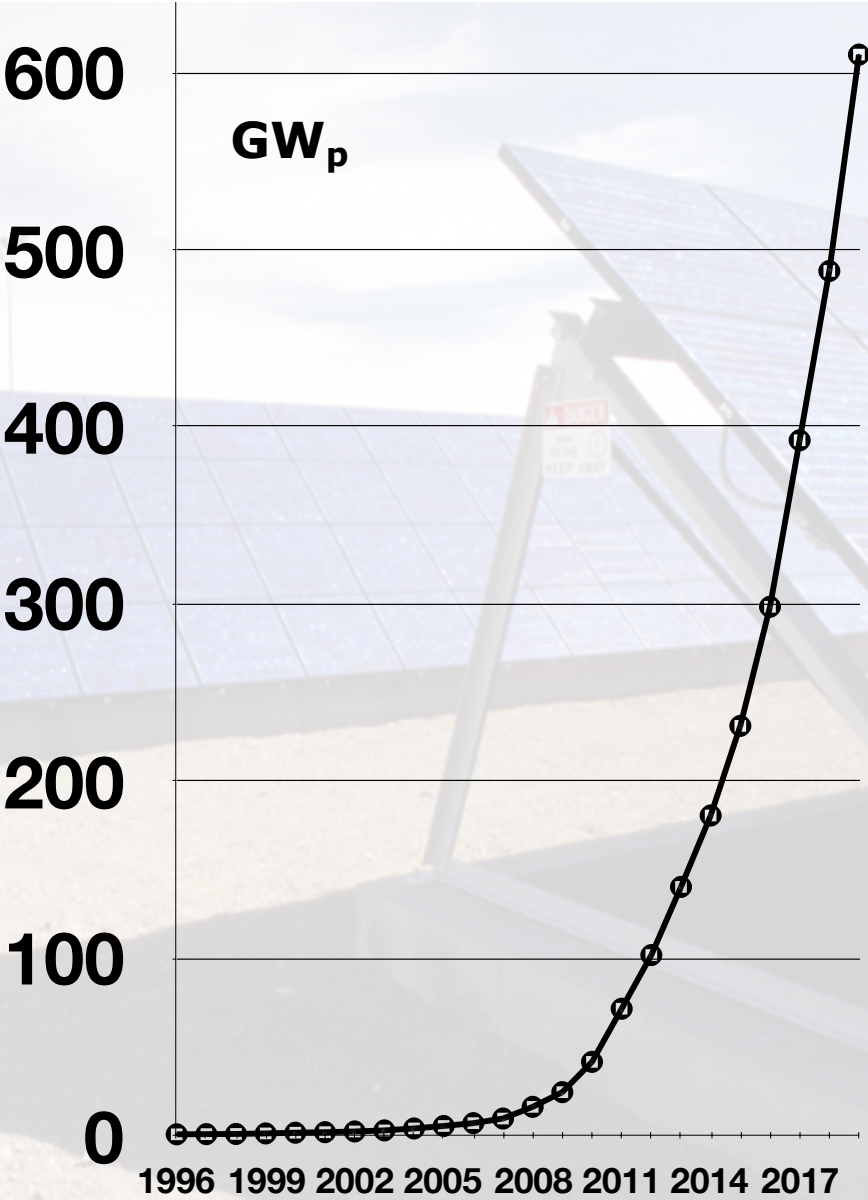


Wind power capacity leading countries 1980-2018



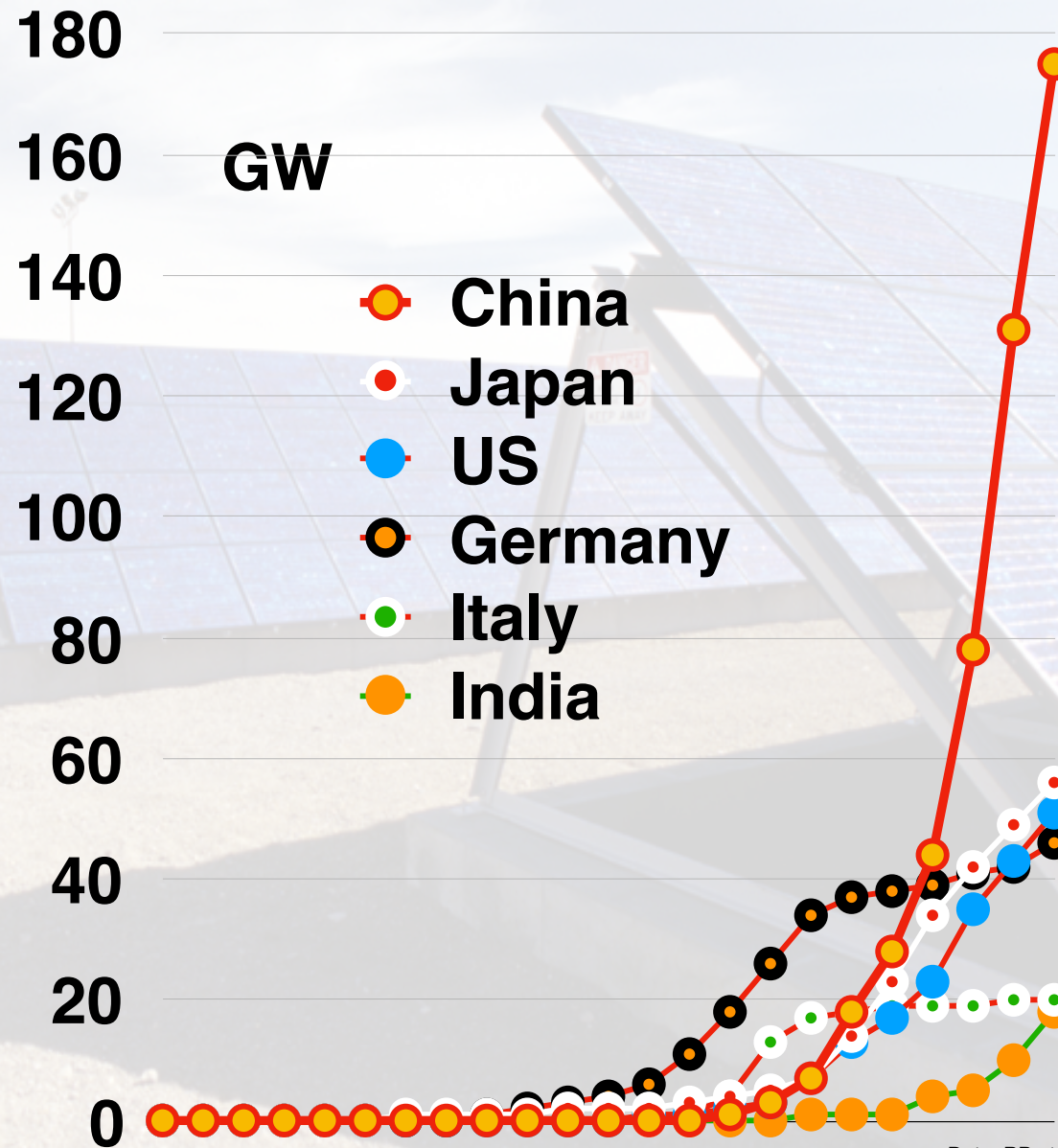
Data GWEC

Global solar PV capacity 1996-2019



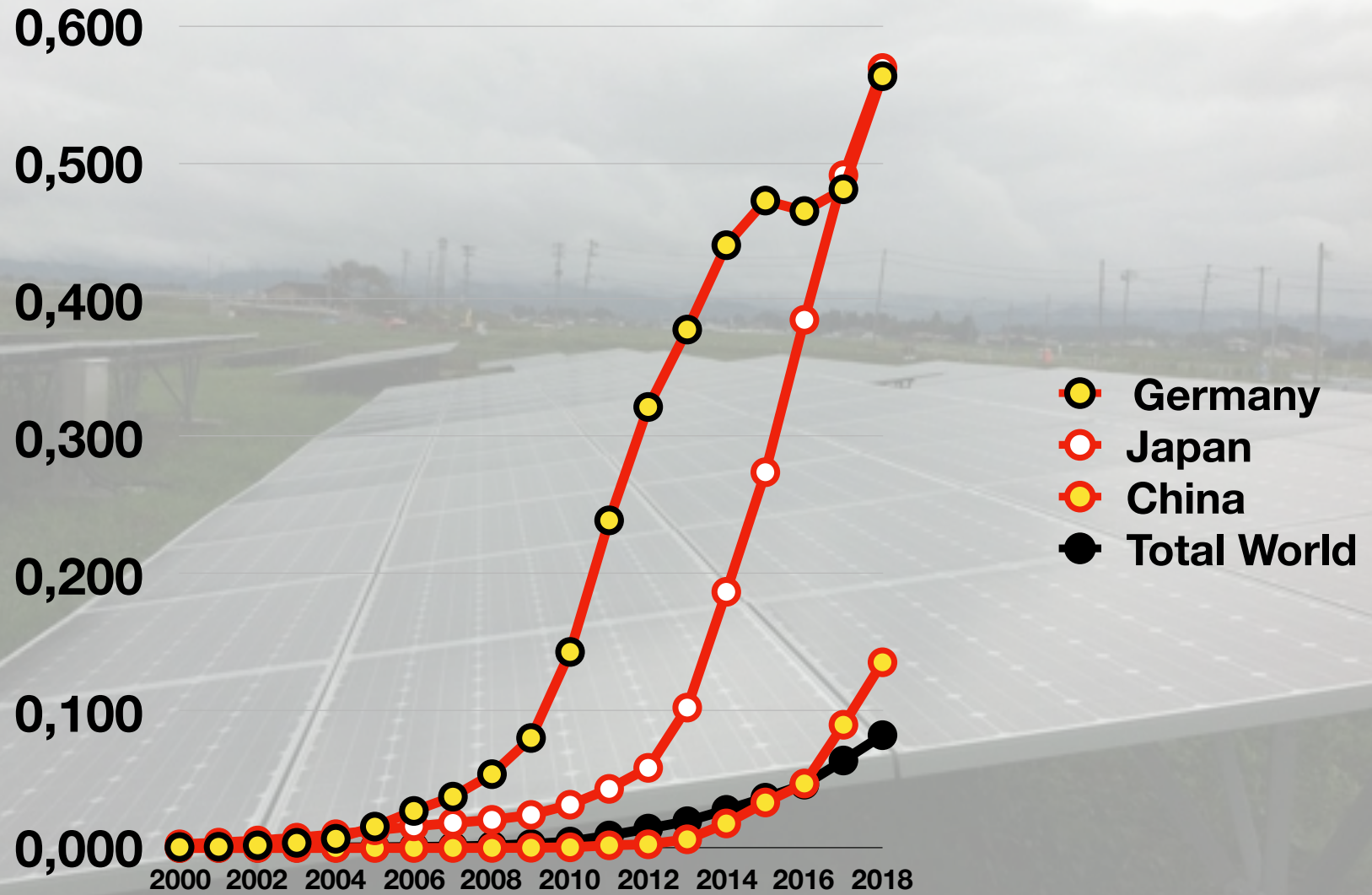
Data: BP statistical review 2018, 2018 Bloomberg

Solar PV- capacity leading countries. 1996-2018

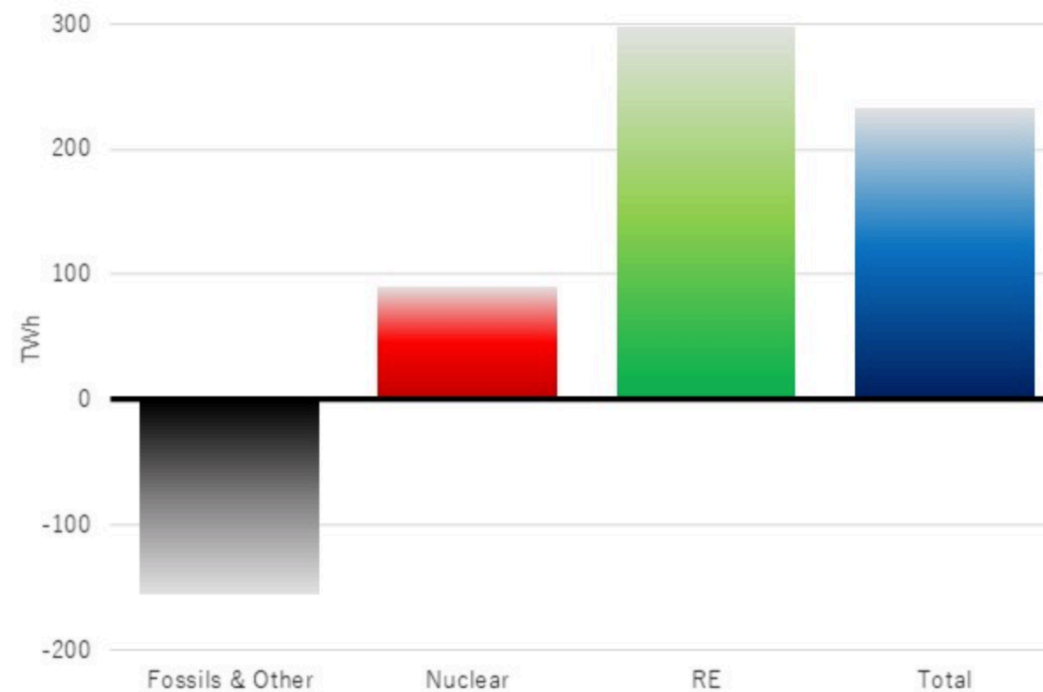


Data: BP statistical review of world energy 2019

Solar electricity, MWh/capita 1990-2018



World* Change in Electricity Generation 2019-2018

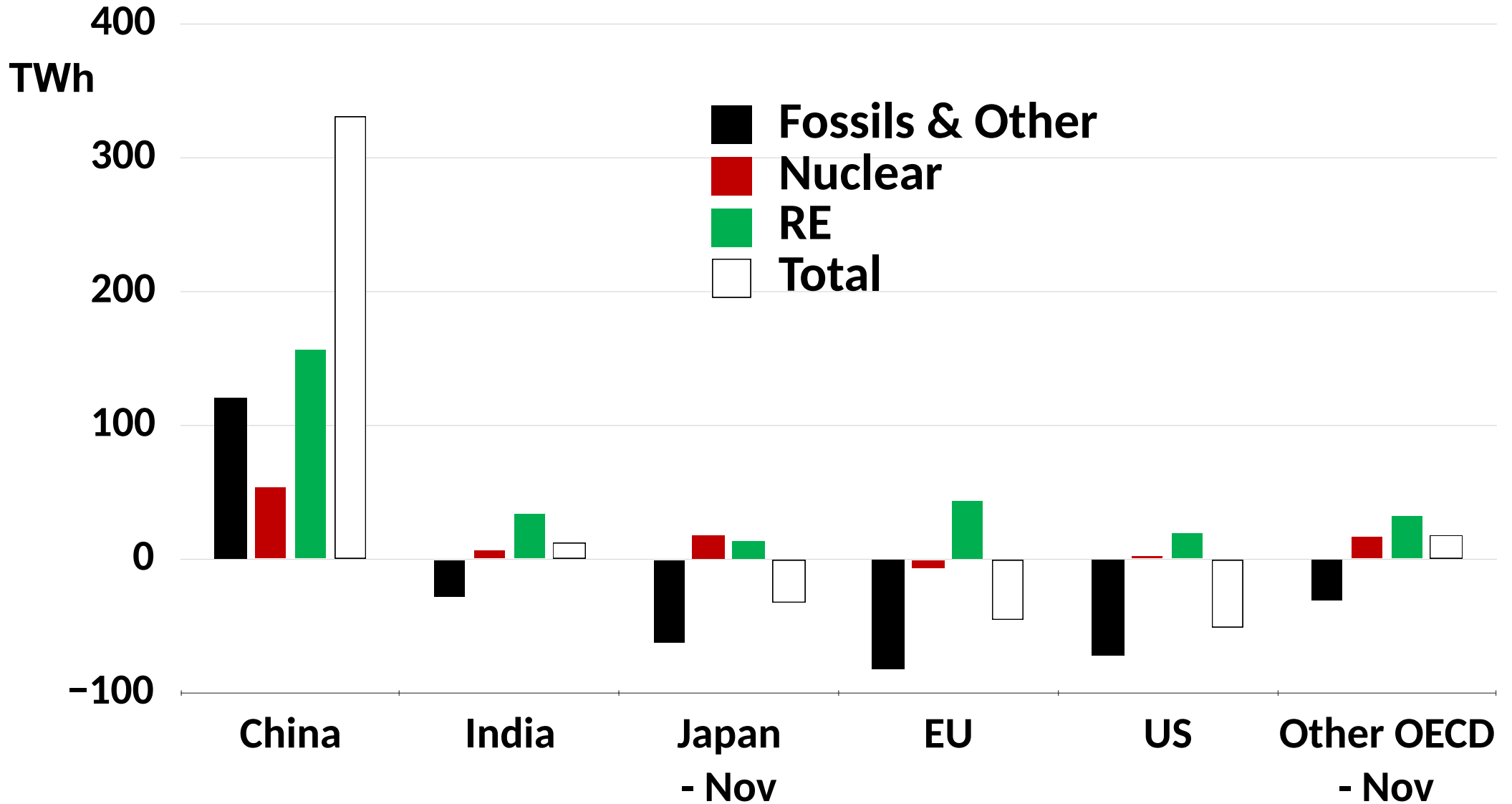


*Covers \approx 75% of the World's total electricity generation, incl. China, US, EU, India, Japan...

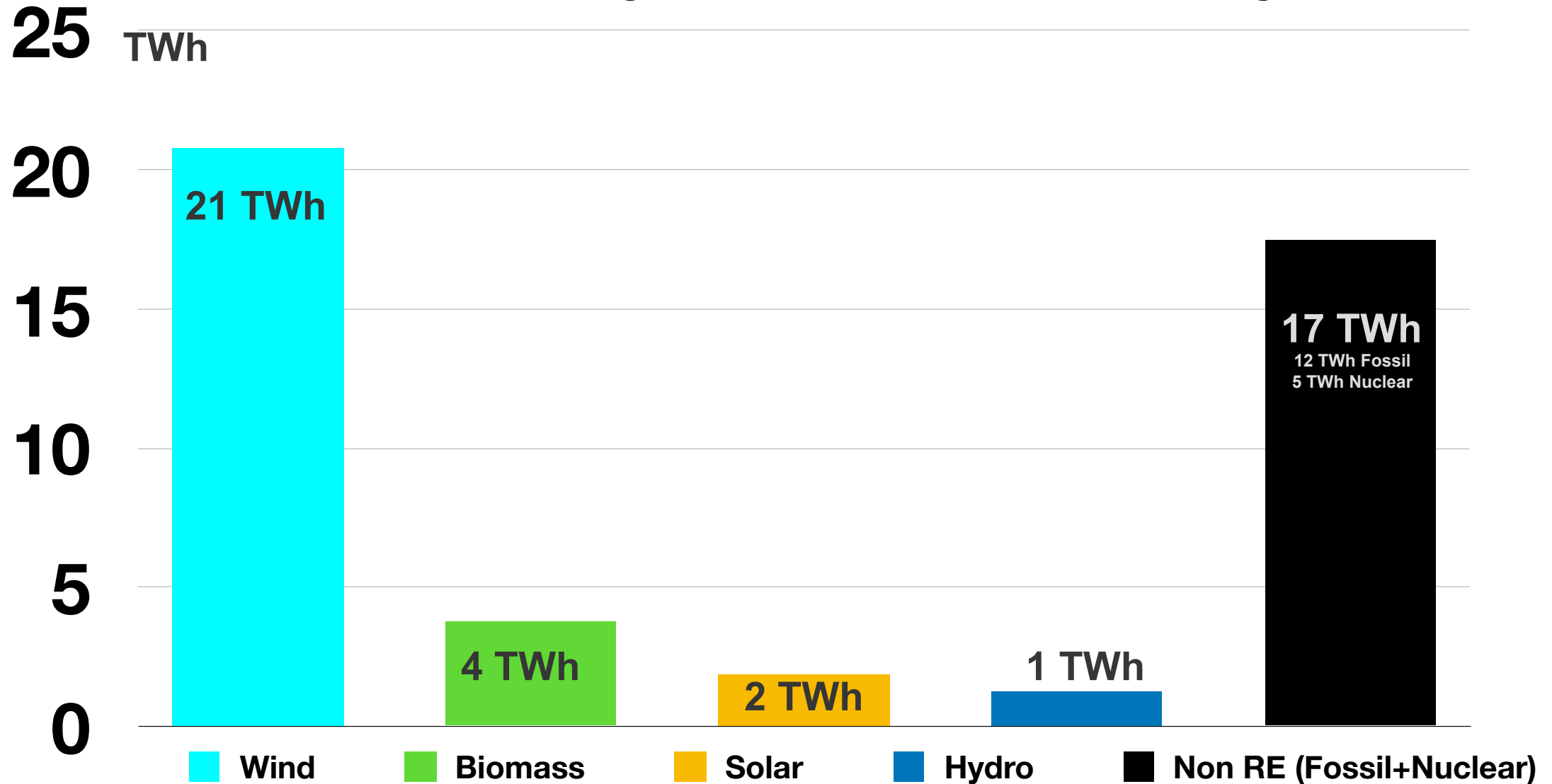
Note: data up to December, except for OECD countries – excluding the US and the EU, which are up to November.

Sources: aggregated by REI based on Agora Energiewende/Sandbag, China Electricity Council, Central Electricity Authority, U.S. Energy Information Administration, and International Energy Agency.

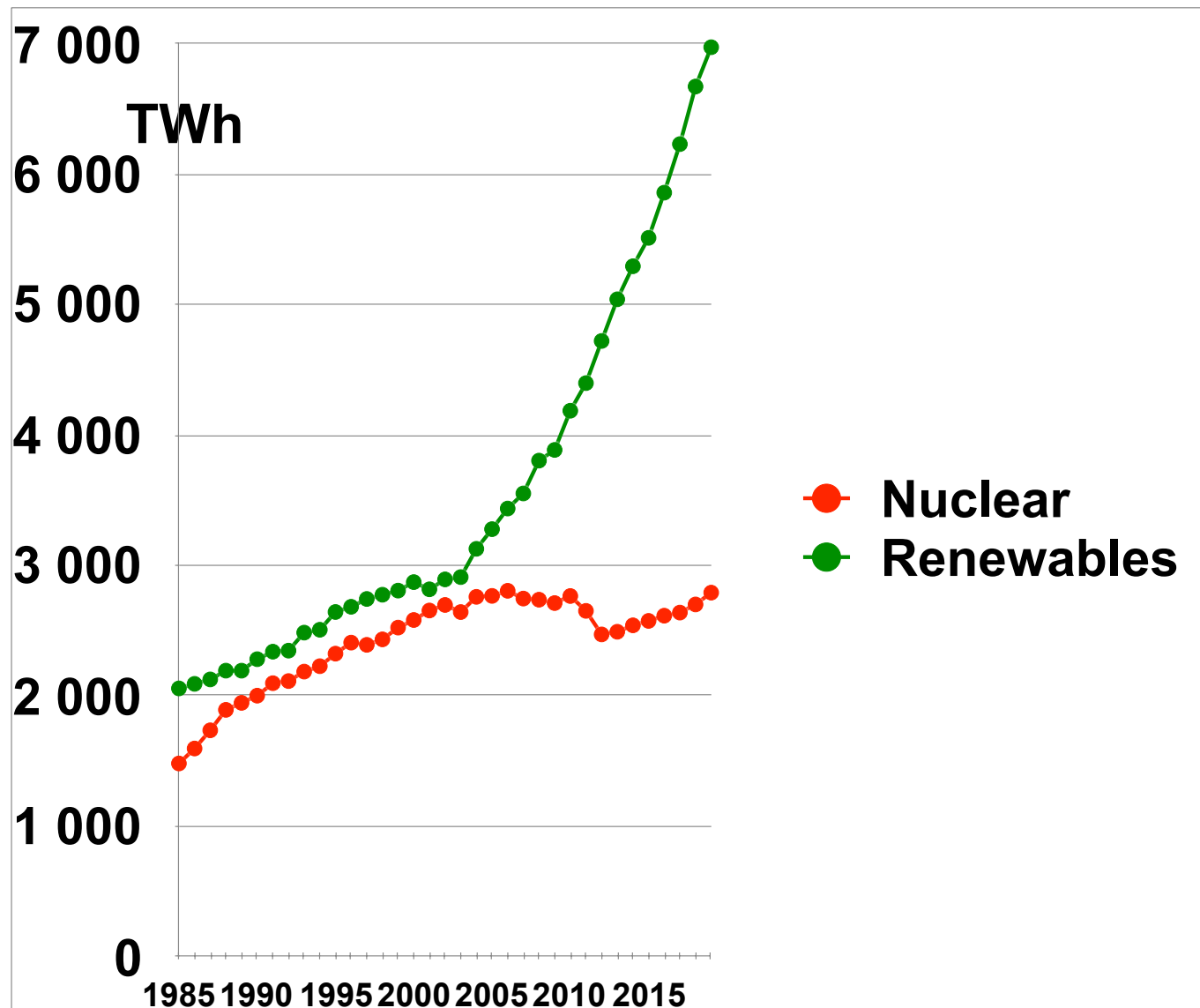
Countries Change in Electricity Generation 2019-2018



German Electricity Production February 2020

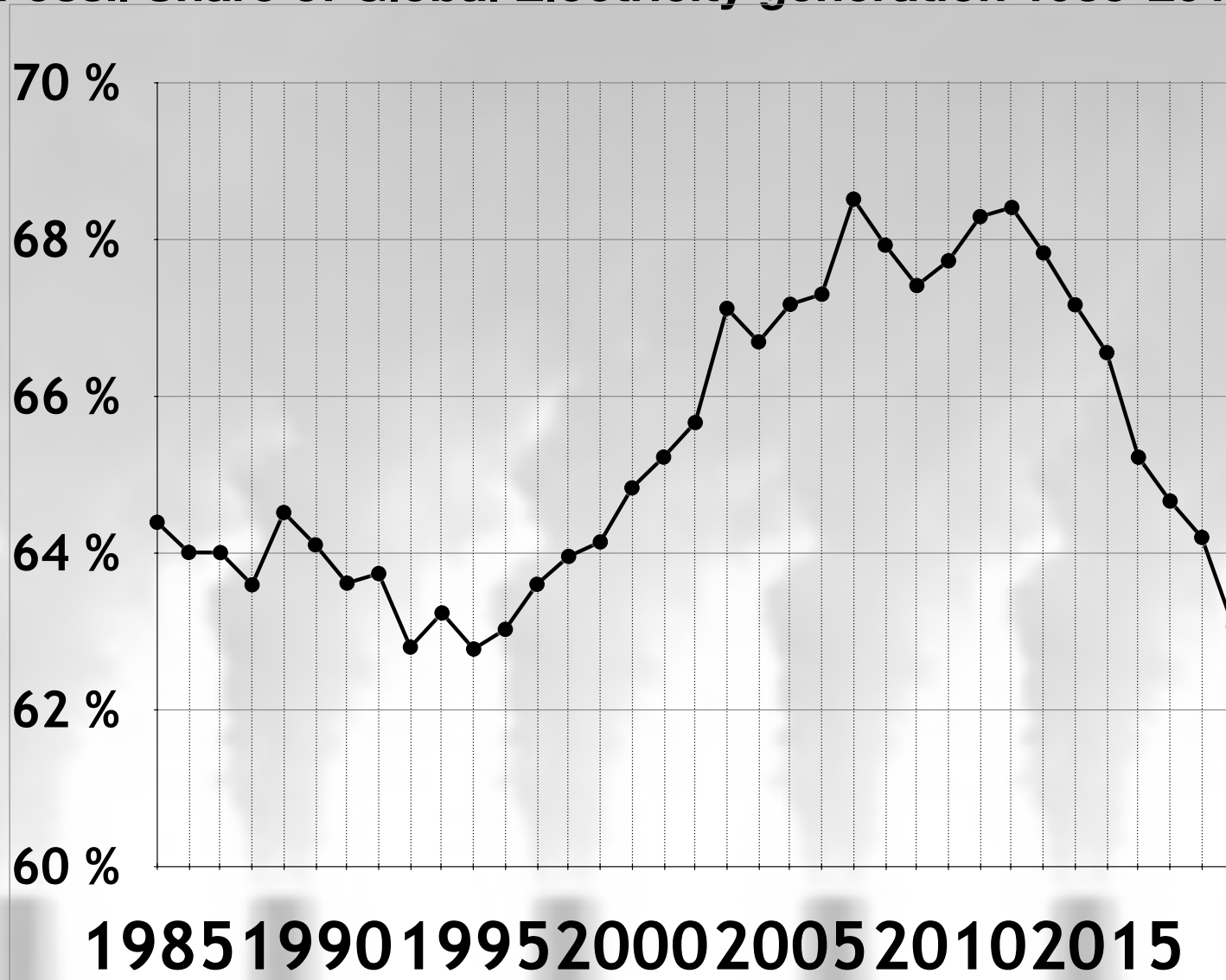


Non-fossil electricity generation globally, 1985-2019



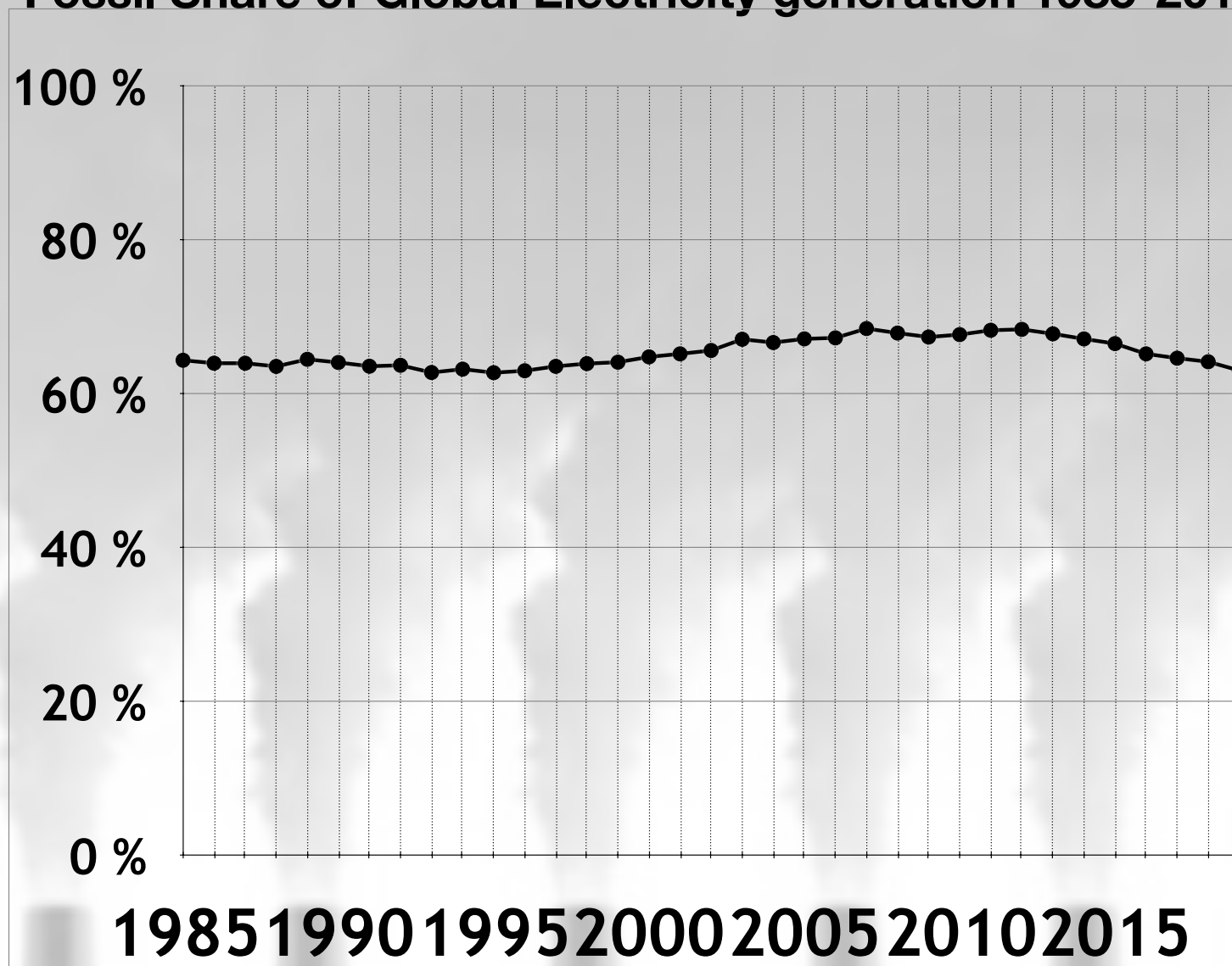
Data: BP Statistical Review 2019, inspired guess for 2019

Fossil Share of Global Electricity generation 1985-2019



Data: BP statistical review 2019, 2019 based on preliminary data

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