

Climate solutions – the Green Shift

What can we all do?

The Captain: What is Hurtigruten doing

Lecture 3

Hurtigruten Antarctica – January 2017

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Mars

Thin atmosphere

(All CO₂ in ground)

Average temperature : - 50°C



Earth

0,03% of CO₂ in the atmosphere

Average temperature : + 14°C



Venus

Thick atmosphere

containing 96% of CO₂

Average temperature : + 420°C





Larsen C Ice Shelf

Rift development to January 2017

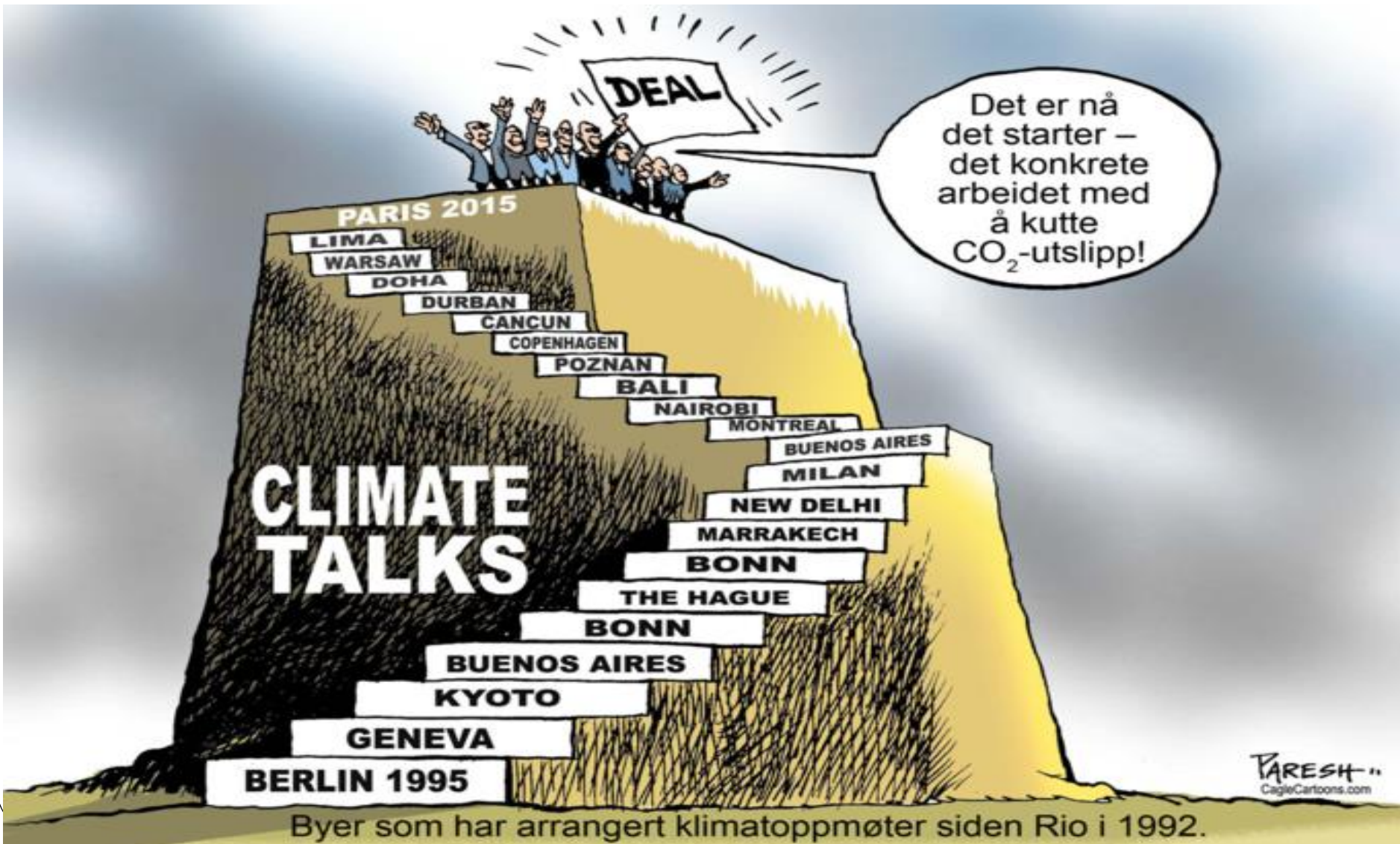


Jan. 19th 2017-
Jan. 1st 2017-
Jun. 2016-
Aug. 2014-
Nov. 2010-

The main image is a satellite view of the Larsen C Ice Shelf. A series of colored lines (pink, orange, yellow) trace the path of a rift. The lines are labeled with dates, indicating the progression of the rift from November 2010 to January 2017.

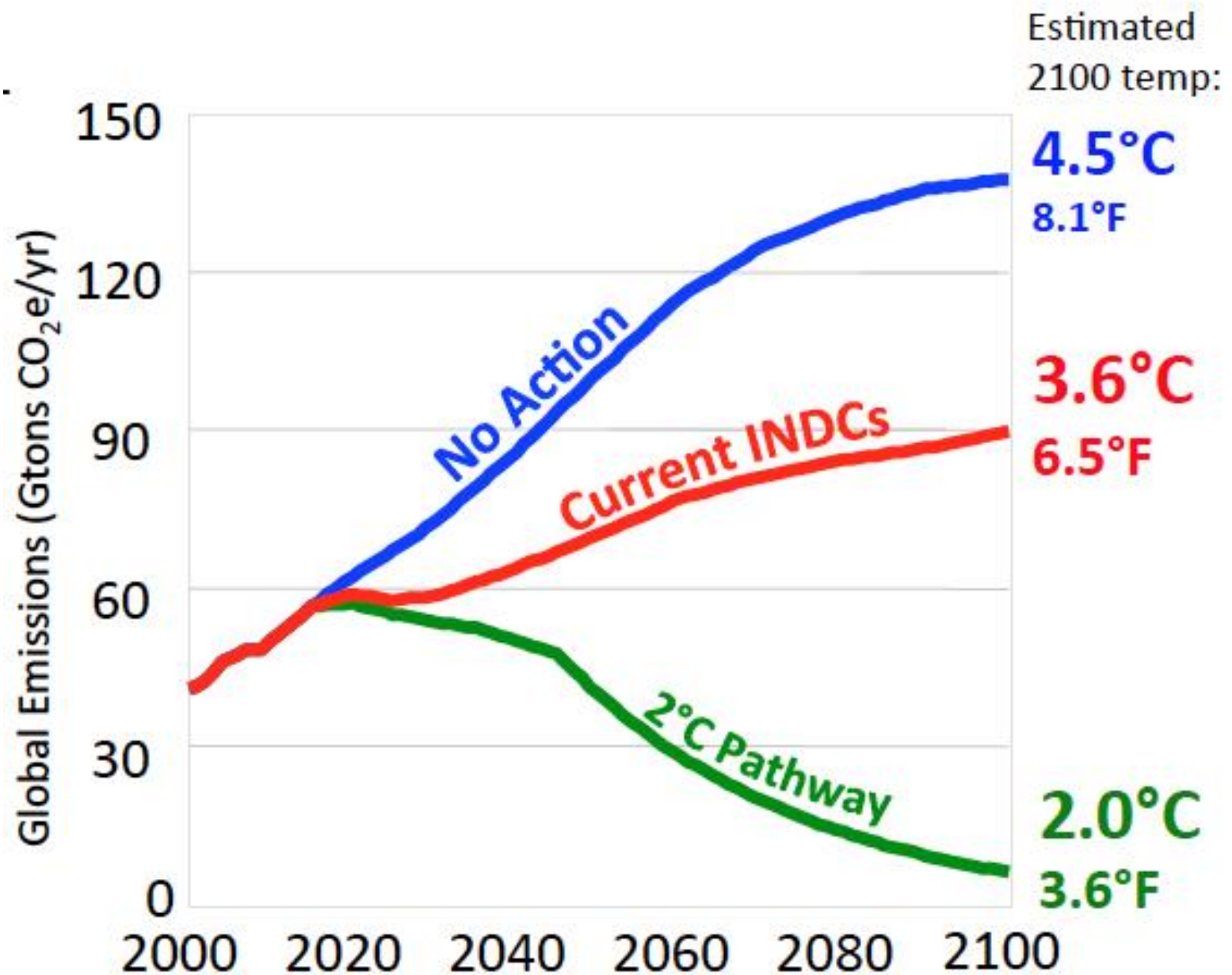


The Road to Paris

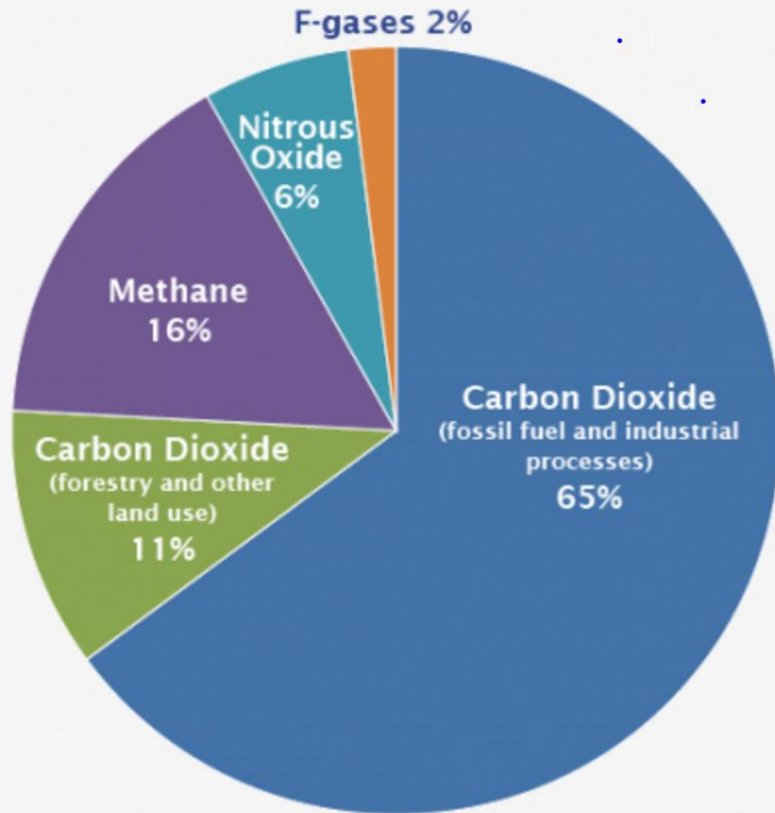


WE SAVED THE WORLD!

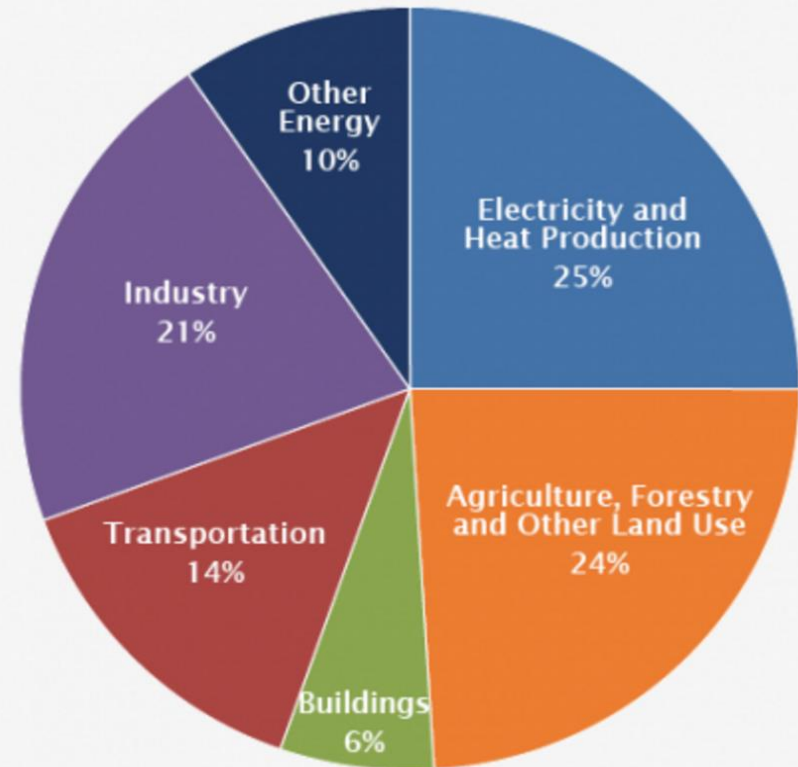




Global Greenhouse Gas Emissions by Gas



Global Greenhouse Gas Emissions by Economic Sector



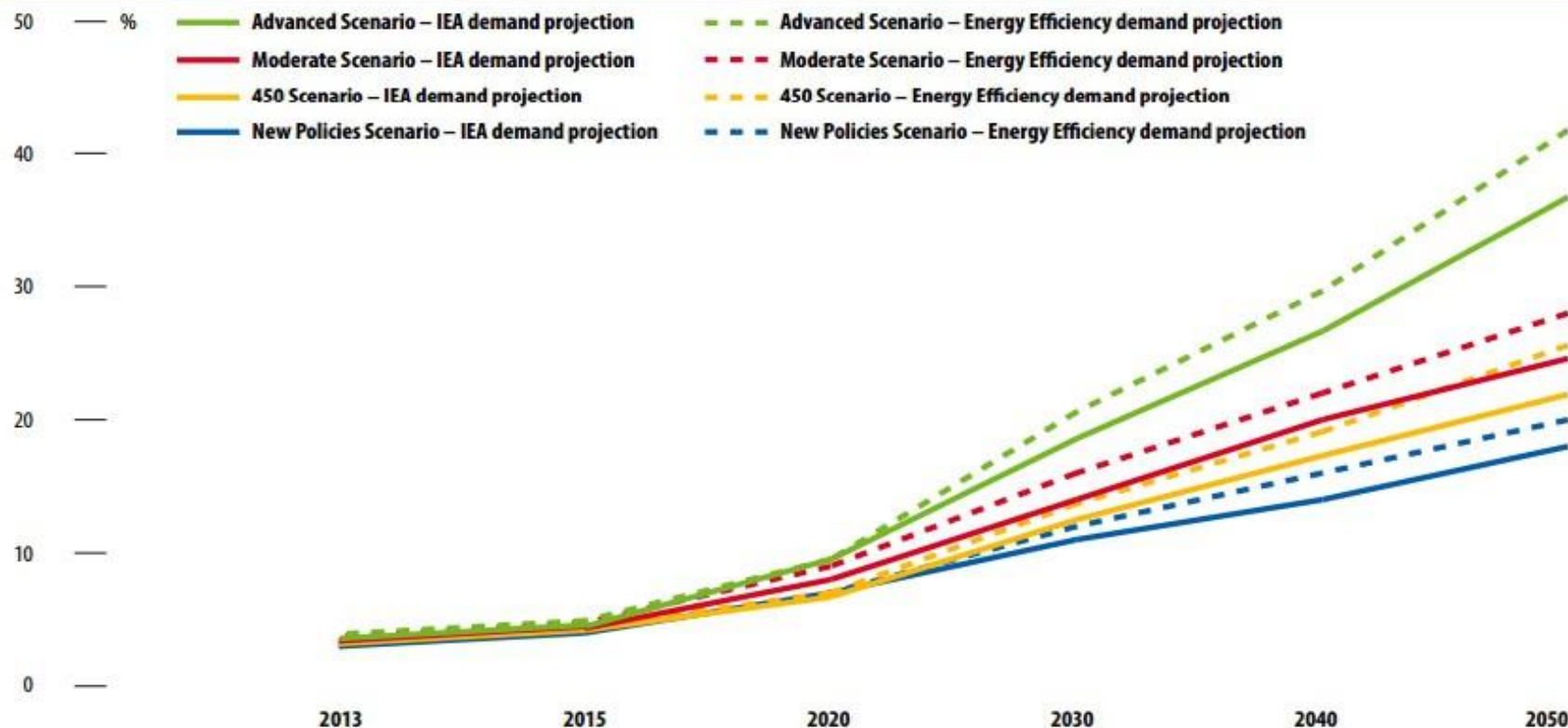
The solutions

Wind – Sun – Electric Cars

Scotland's wind turbines provided more electricity than the country needed four days in a row - 23-26 December 2016



WIND POWER SHARE OF GLOBAL ELECTRICITY DEMAND



New Policies Scenario

IEA demand projection	3%	4%	7%	11%	14%	18%
Energy Efficiency demand projection	3%	4%	7%	12%	16%	20%

450 Scenario

IEA demand projection	3%	4%	7%	13%	17%	22%
Energy Efficiency demand projection	3%	4%	7%	14%	19%	25%

Moderate Scenario

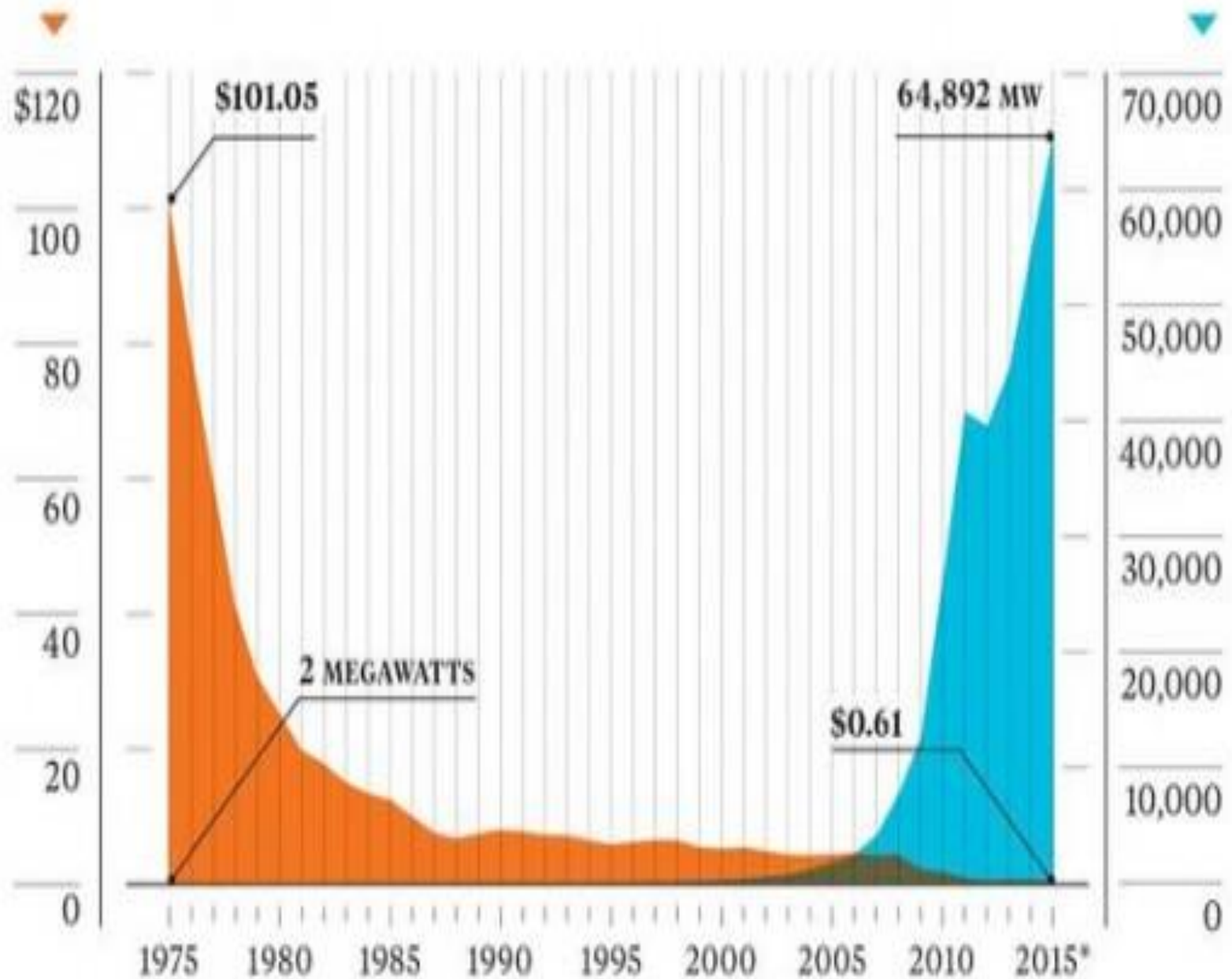
IEA demand projection	3%	4%	8%	14%	20%	25%
Energy Efficiency demand projection	3%	4%	9%	16%	22%	28%

Advanced Scenario

IEA demand projection	3%	4%	9%	18%	26%	36%
Energy Efficiency demand projection	3%	4%	9%	20%	29%	41%

Price of a solar panel per watt

Global solar panel installations

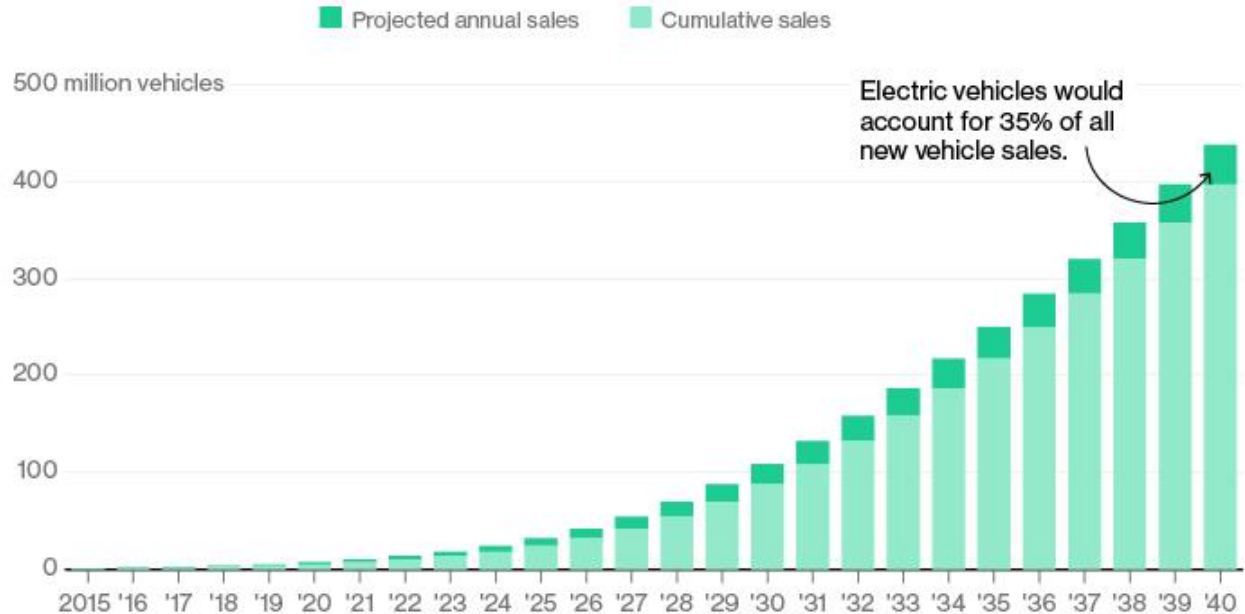






The Rise of Electric Cars

By 2022 electric vehicles will cost the same as their internal-combustion counterparts. That's the point of liftoff for sales.

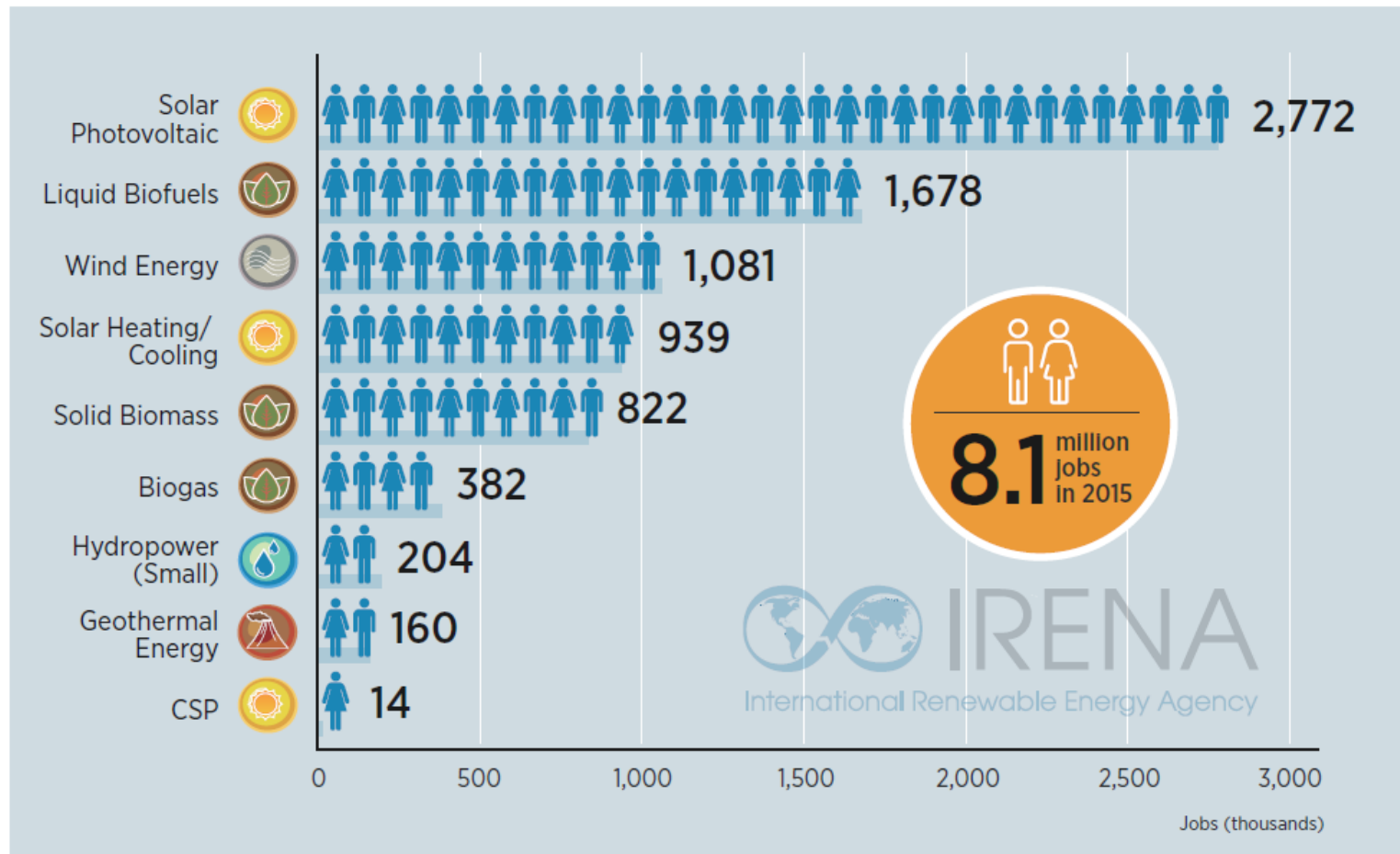


Sources: Data compiled by Bloomberg New Energy Finance, Marklines

Bloomberg 

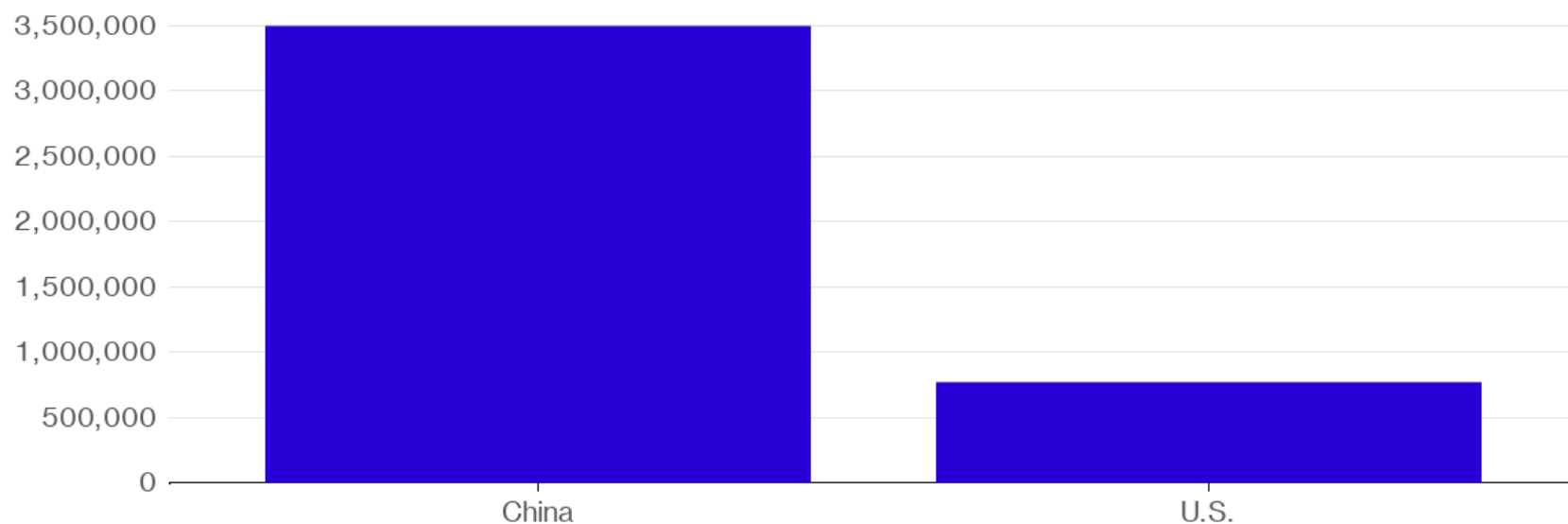


Renewable Energy Jobs Booming



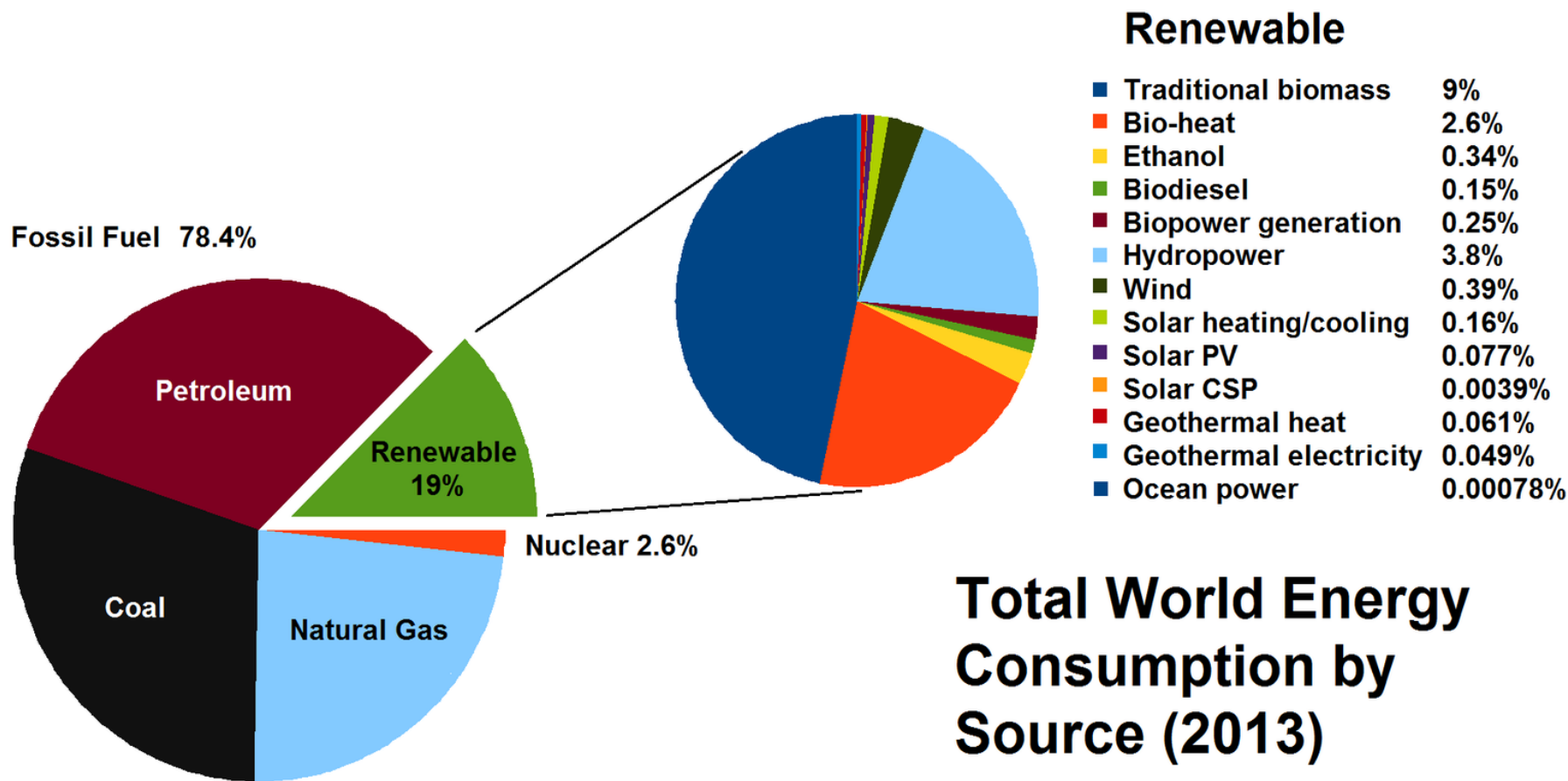
China Towers Over the U.S. On Clean Energy Jobs

Number of people employed in the renewable energy sector in 2015

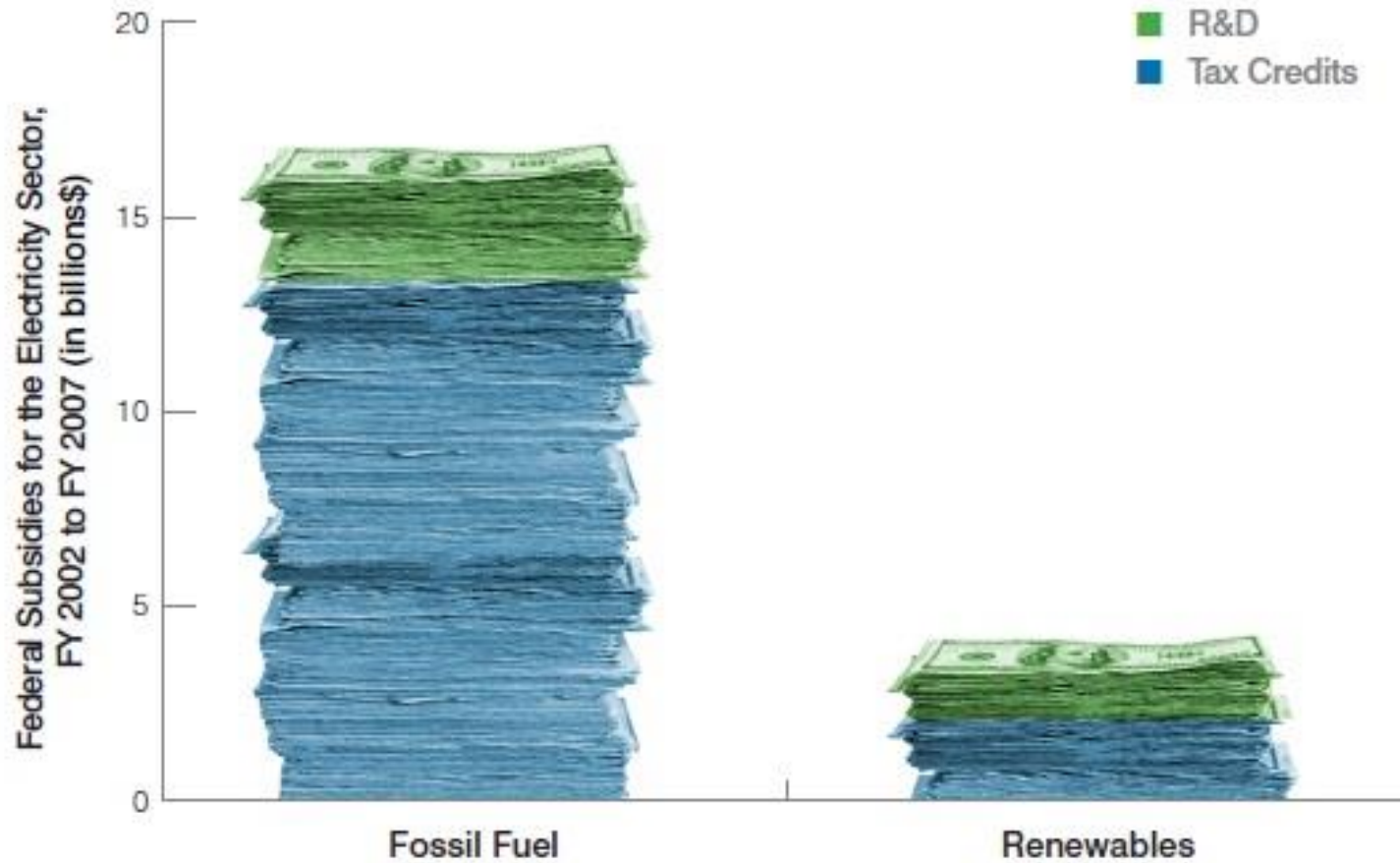


Source: International Renewable Energy Agency, China National Energy Administration, European Climate Foundation

Bloomberg 



Fossil Fuels Enjoy Permanent Incentives 5x Those of Renewables



Data Source: Government Accountability Office, October 2007



What can You and I do?

Within 10 years most of you might have a solar panel on the roof, a battery in your house and a EV in your garage



What can a person do

- Stay informed!
- Use your vote!
- Help pushing the green shift through your purchasing:
- Select green solution at home and in transport
- Purchase green electricity
- Eat less red meat
- Recycle, re-use and avoid useless purchases
- Use greenest possible travel (you are still allowed to fly and take a boat trip)
- Offset the rest of your footprint – it is not indulgences

It helps to engage





A photograph of Ban Ki-moon, Secretary-General of the United Nations, speaking at a podium. He is wearing a dark suit, a light purple tie, and glasses. The podium has a sign that reads "CLIMATE WEEK NYC" and "CLIMATEWEEKNYC.ORG".

**“
IF WE CAN'T ALL SWIM TOGETHER,
WE WILL SINK. THERE IS NO PLAN B,
BECAUSE THERE IS NO PLANET B.
”**

**BAN KI-MOON, SECRETARY-GENERAL, UNITED NATIONS,
SPEAKING AT CLIMATE WEEK NYC 2014**

**JOIN US FOR THE FIRST EVER CLIMATE WEEK PARIS TO
HEAR FROM GLOBAL BUSINESS LEADERS ON MAY 18-24
CLIMATEWEEKPARIS.ORG #CWPParis**

