

FISSION DEBATE - CONTINUED

(TERRAPOWER HEADQUARTERS IN CALGARY)



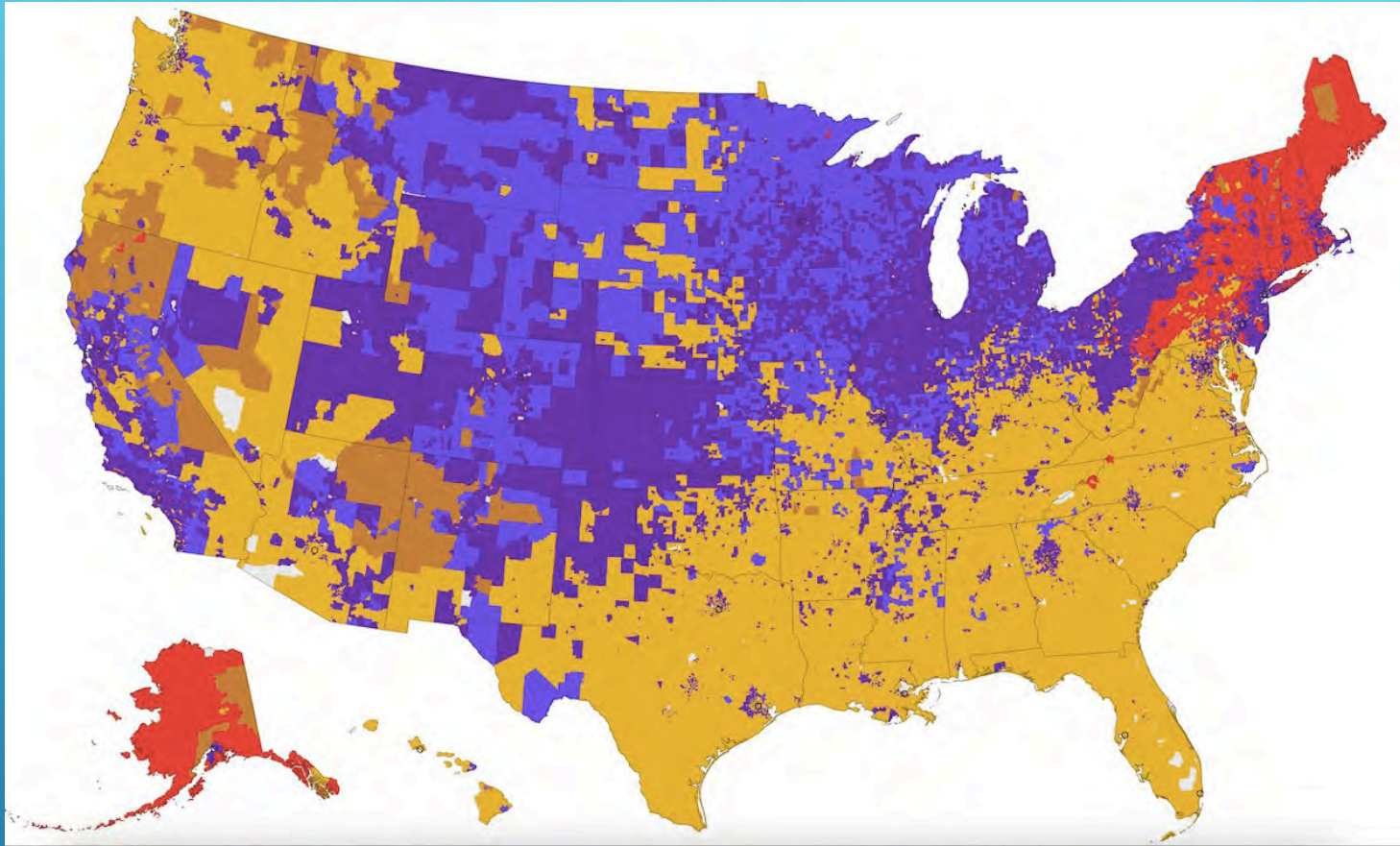
The “closed cycle” approach

- France, Great Britain and Japan, and others, took a different route: SNF is a valuable asset, not a waste requiring disposal.
- France offers reprocessing services to several countries: Japan, Germany, Belgium, Switzerland, Italy, Spain and the Netherlands.
- The non-recyclable part of the radioactive waste is eventually sent back to the user nation.

La Hague site (Fr)



USA TOOK THE "LOW ROAD" AND SUFFERED



FUTURE HOME HEATING IN USA WILL REQUIRE
A MASSIVE INFLUX OF CLEAN ELECTRICITY,
INCLUDING FISSION POWER

RED = PROPANE BLUE = METHANE YELLOW = ELECTRICITY

Independent Spent Fuel Storage Installations (ISFSI)



Licensed and Operating Independent Spent Fuel Storage Installations by State

October 2021



OUR PERFECT HISTORY OF SPENT FUEL STORAGE

Nuclear Plants Saved from Premature Closures

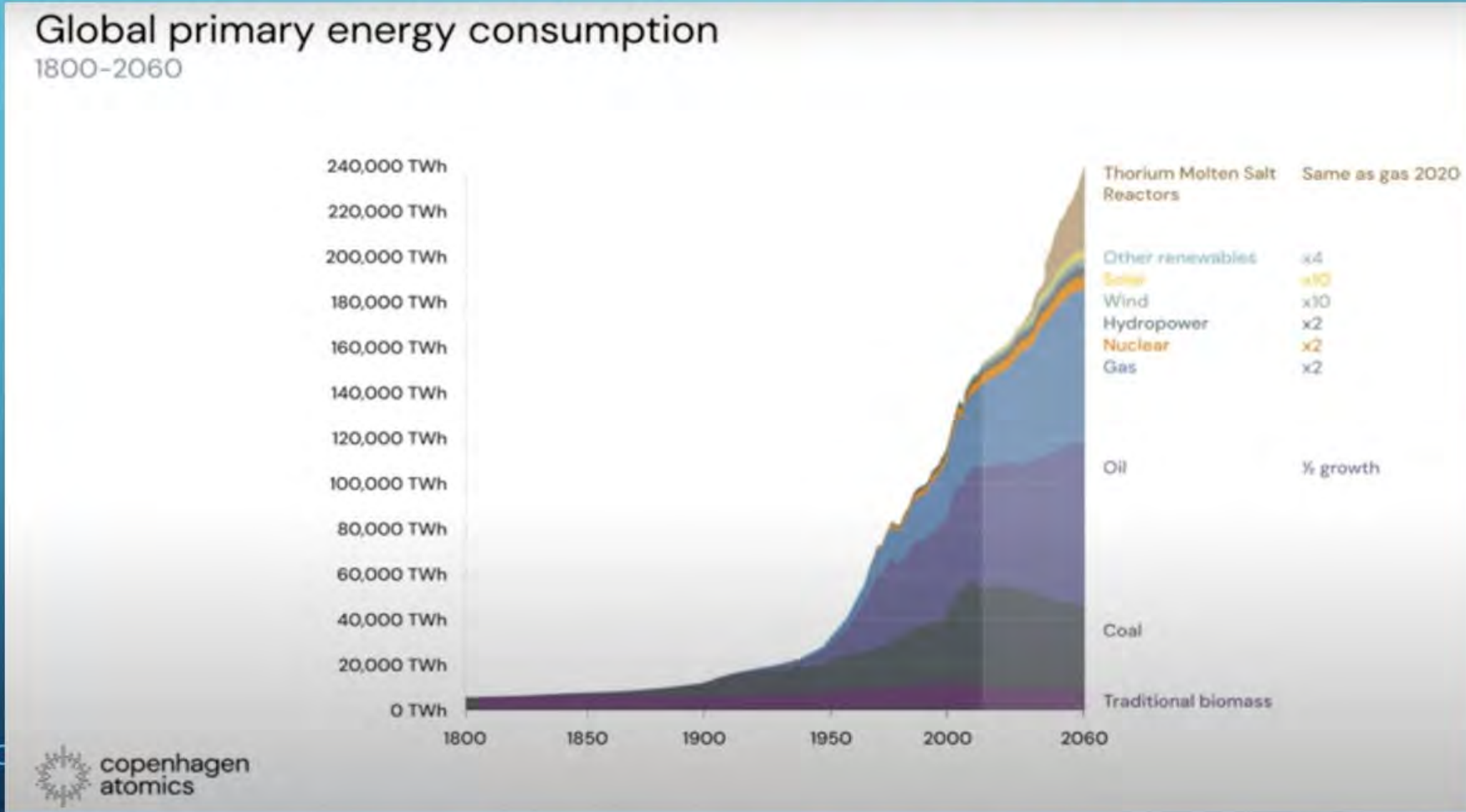
Plant	MWe	Projected Closure Year	Reason for Potential Shutdown	Electricity Generated in 2017 (billion kWh per yr)	CO ₂ Emissions Avoided in 2017 (Million metric tons/yr)
Clinton	1,065	2017	Market	8.3	8.1
Fitzpatrick	852	2017	Market	6.2	2.9
Ginna	582	2017	Market	4.7	2.2
Hope Creek	1,172	~2020	Market	10.6	7.7
Millstone 2 & 3	2,096	~2020	Market	16.5	7.4
Nine Mile Point 1 & 2	1,770	2017-2018	Market	16.0	7.4
Quad Cities 1 & 2	1,819	2018	Market	15.4	11.2
Salem 1 & 2	2,328	~2020-2021	Market	18.0	13.1
TOTAL	11,683			95.7	60.0

- 11,683 MWe baseload capacity
- More than 7,400 direct jobs saved
- More electricity generation than all U.S. utility solar in 2017
- 60.0 million metric tons of CO₂ avoided

Source: Emissions avoided are calculated using regional and national fossil fuel emissions rates from the U.S. Environmental Protection Agency and latest plant generation data from the U.S. Energy Information Administration. Updated: August 2018.

NUCLEAR SUFFERS FROM POOR MARKETING

DARE WE PREDICT TO 2060?



WHAT ABOUT MOLTEN SALT REACTORS?

JACK DEVANNEY SAYS:

If it is true that we only have 20 or 30 years to drastically cut CO2 emissions, then, as we shall see:

- 1) we are not going to make it, and
- 2) we will impoverish and kill billions trying.

As Greta points out, all we can do is panic.

If on the other hand a gradual reduction in CO2 emissions over the next 100 years will suffice, then, if we can avoid our usual stupidities, there is a chance that we can pull it off.



On a more Positive Note ...

A good friend backs you up.

