

Choose Jobs & Low-Cost Energy

Environmental Benefits Follow

Thomas Hadwin

ACN Energy Solutions

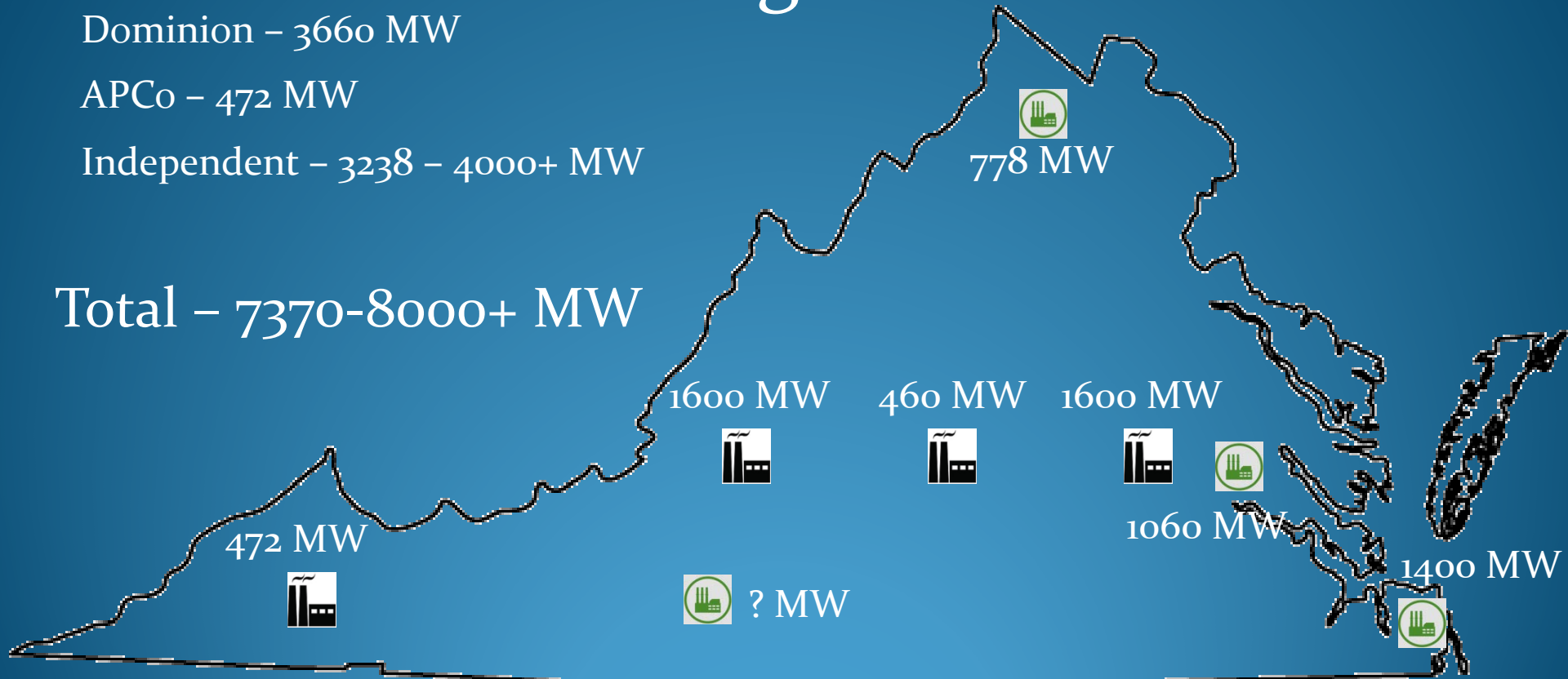
Current Path Virginia

Dominion – 3660 MW

APCo – 472 MW

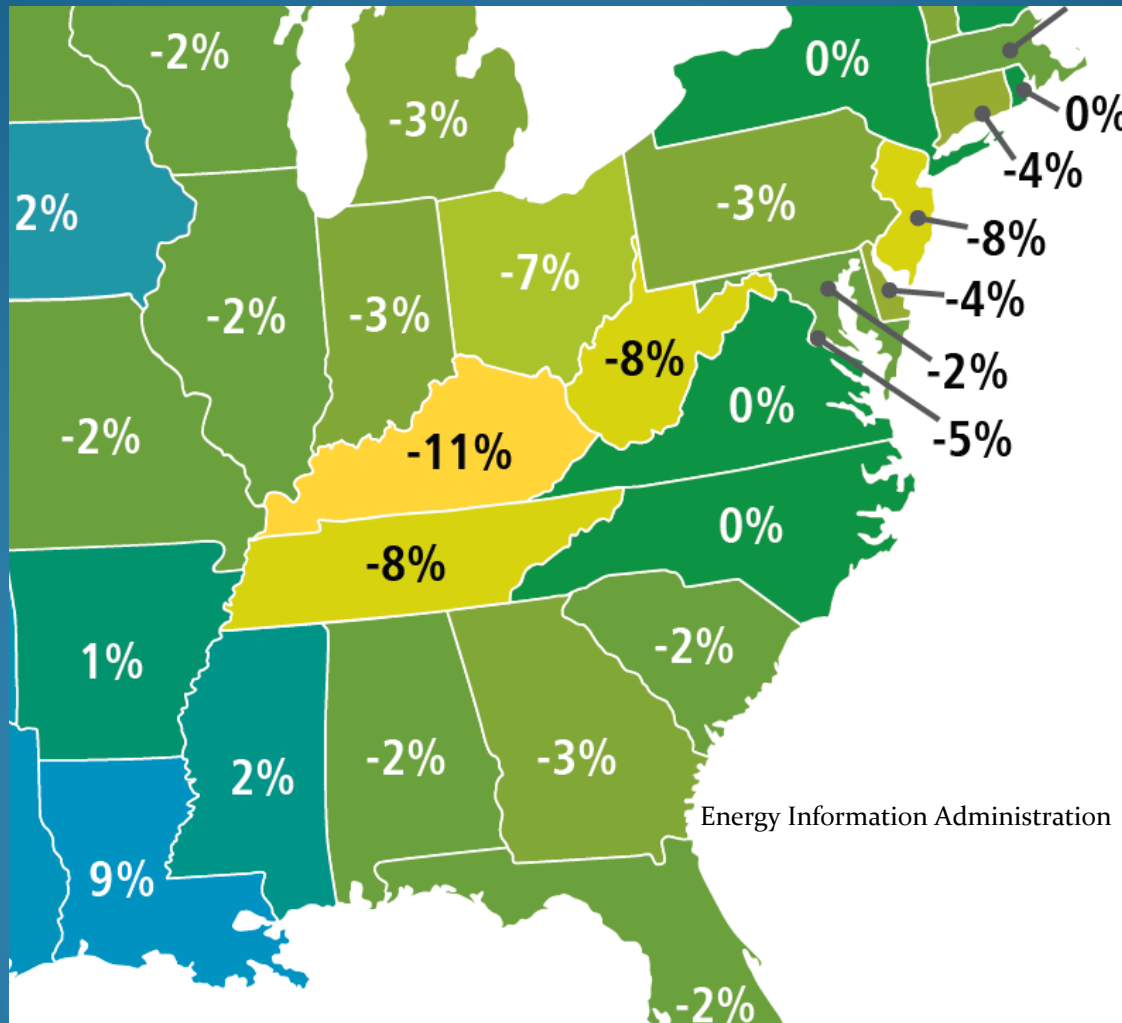
Independent – 3238 – 4000+ MW

Total – 7370-8000+ MW

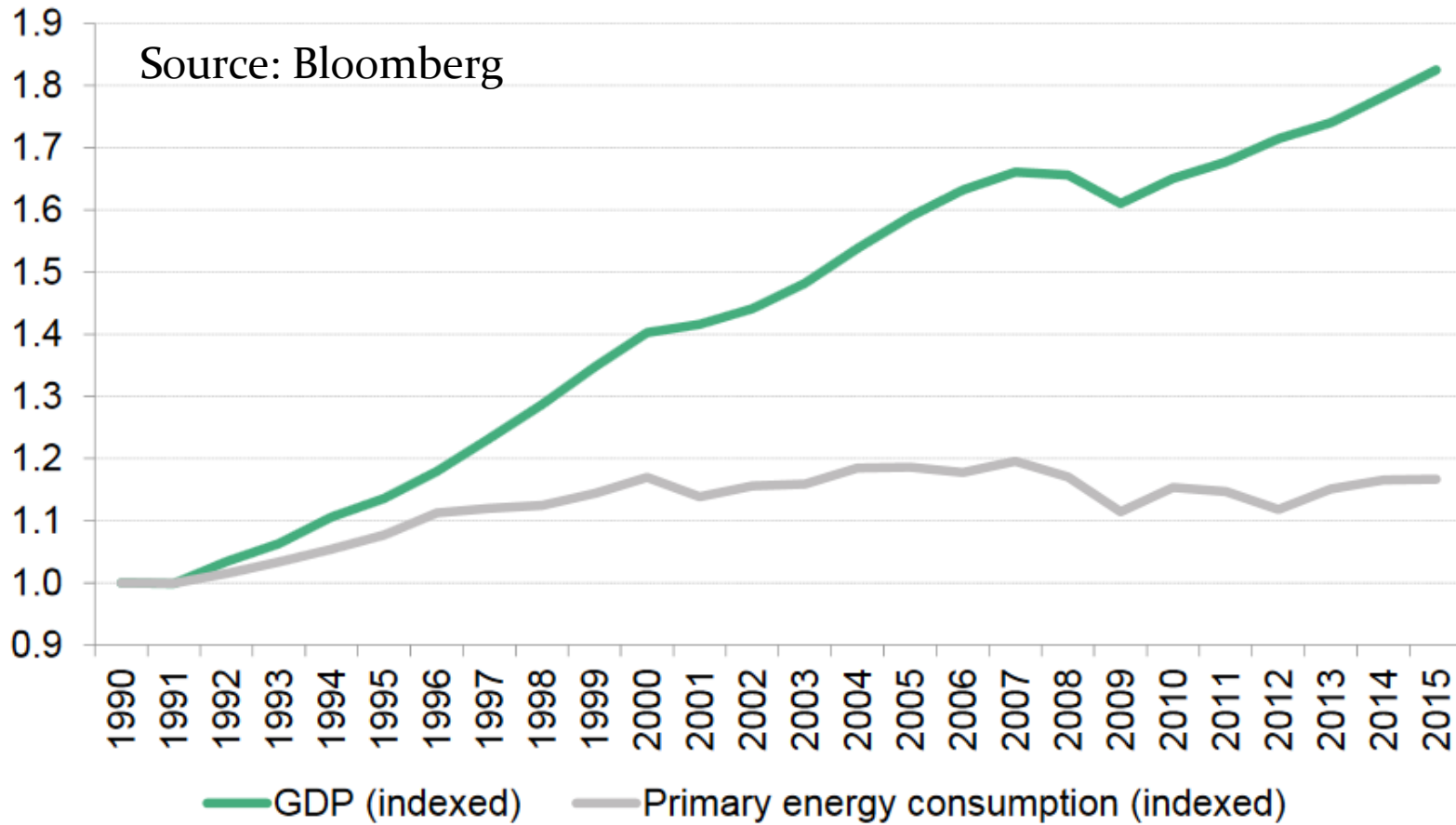


Is it Load Growth?

Percent Change in Retail Electricity Sales (kilowatt-hours), 2008–2013



Decoupled from GDP Growth

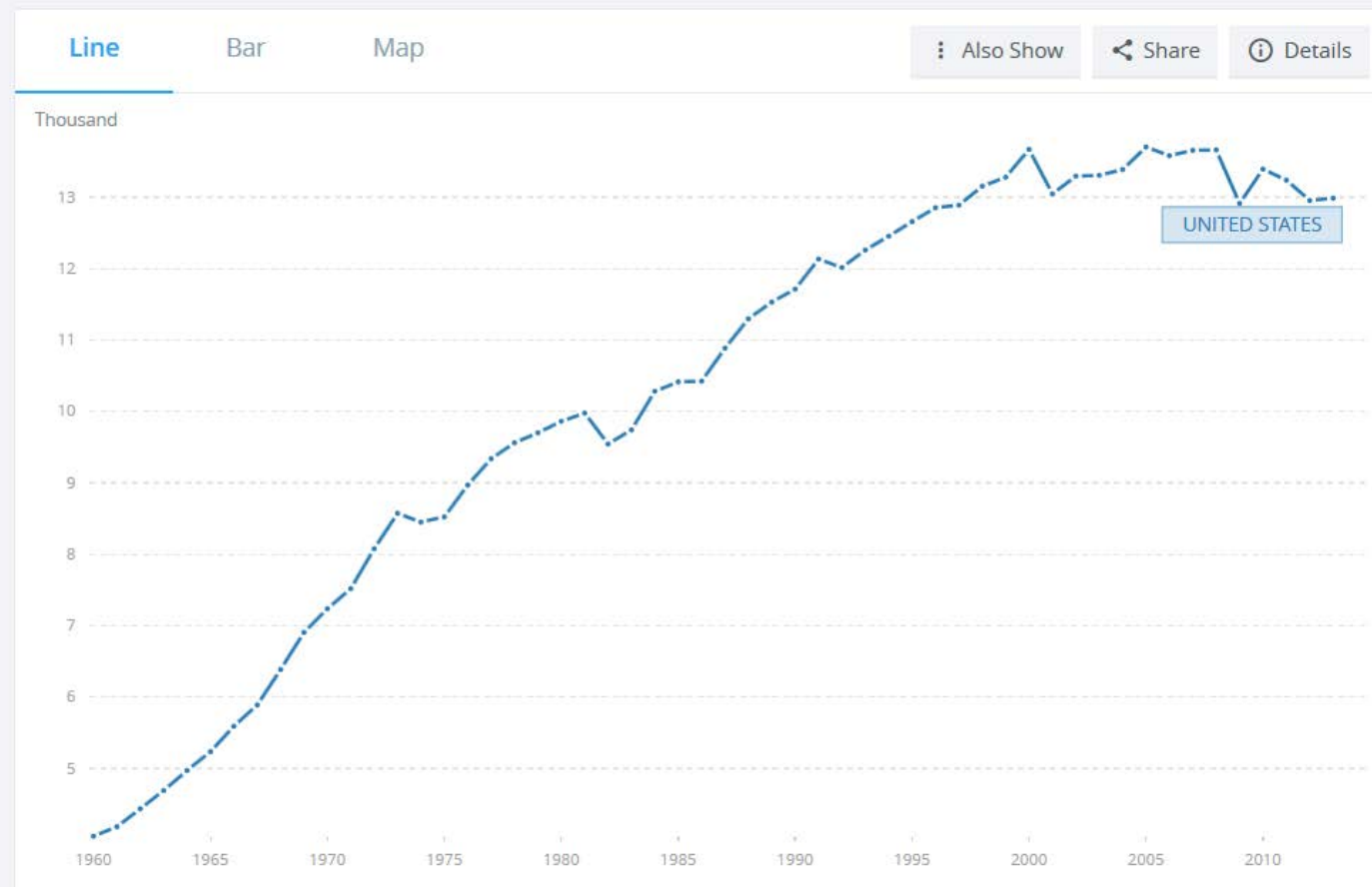


Population Growth

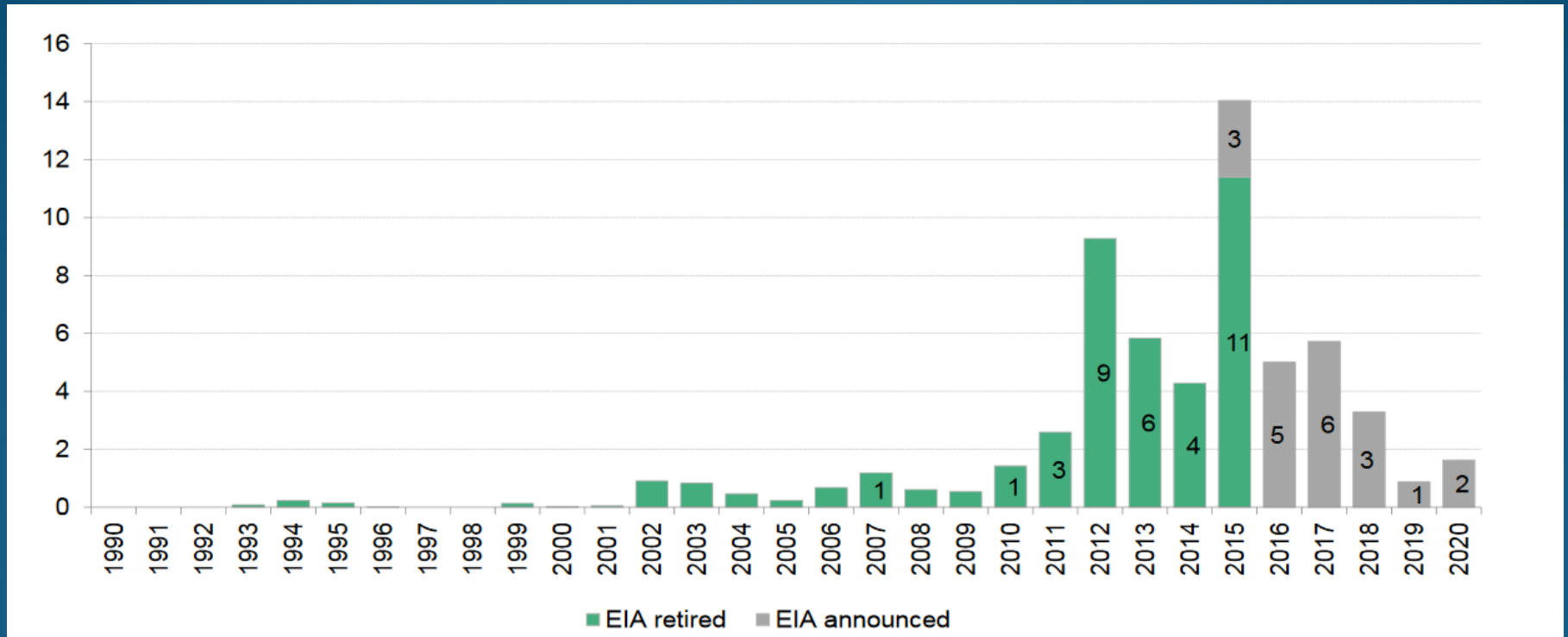
Electric power consumption (kWh per capita)

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Coal Plant Retirements



Dominion 726 MW of coal capacity retired by 2020

Jobs

Typical pipeline job just 8-10 months



Jobs

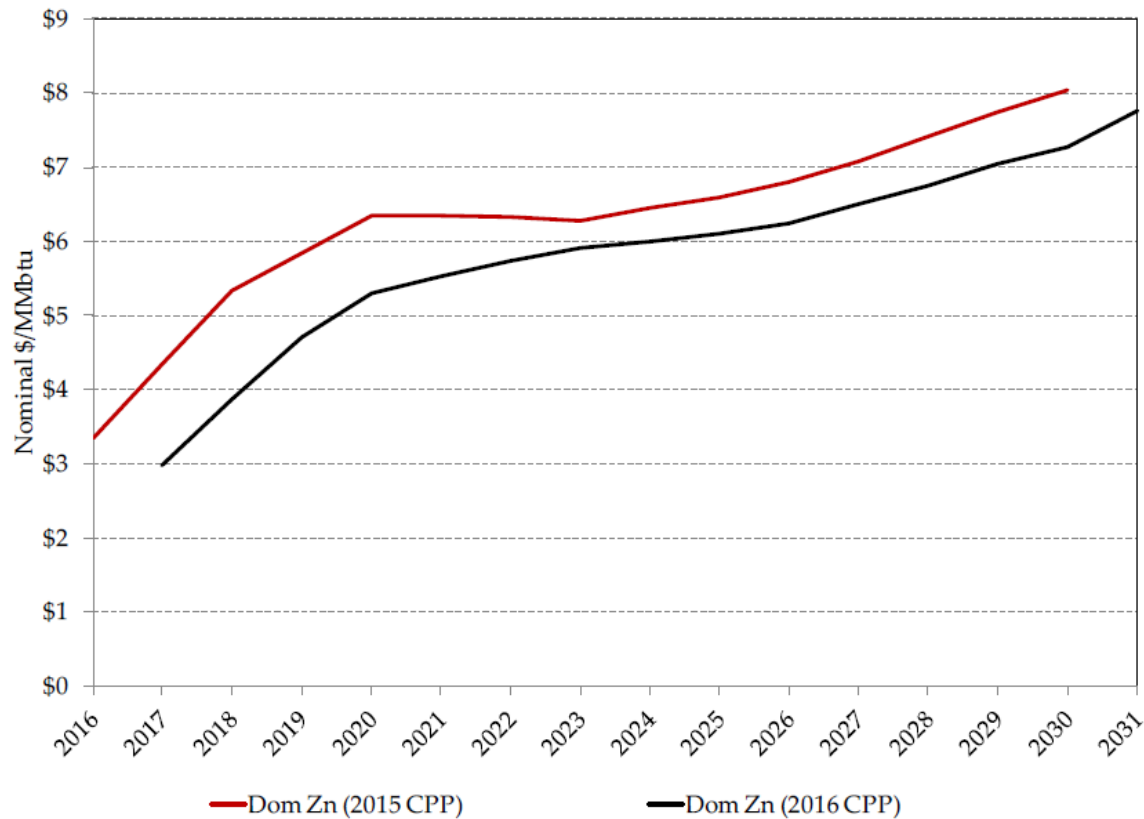
Power plant jobs less than 8-10 months



Fuel Cost Increases

\$2 in July \$6 in 2025

Figure 4.4.1.2 - Fuel Price Forecasts - Natural Gas DOM Zone



Environment

Methane + CO₂

New Gas Plant



=

Old Coal Plant



Economic Effects

"We got it wrong," he says, noting the new piers aren't high enough to withstand more than a foot of future sea-level rise. "We weren't thinking about climate change, period."



Current Path

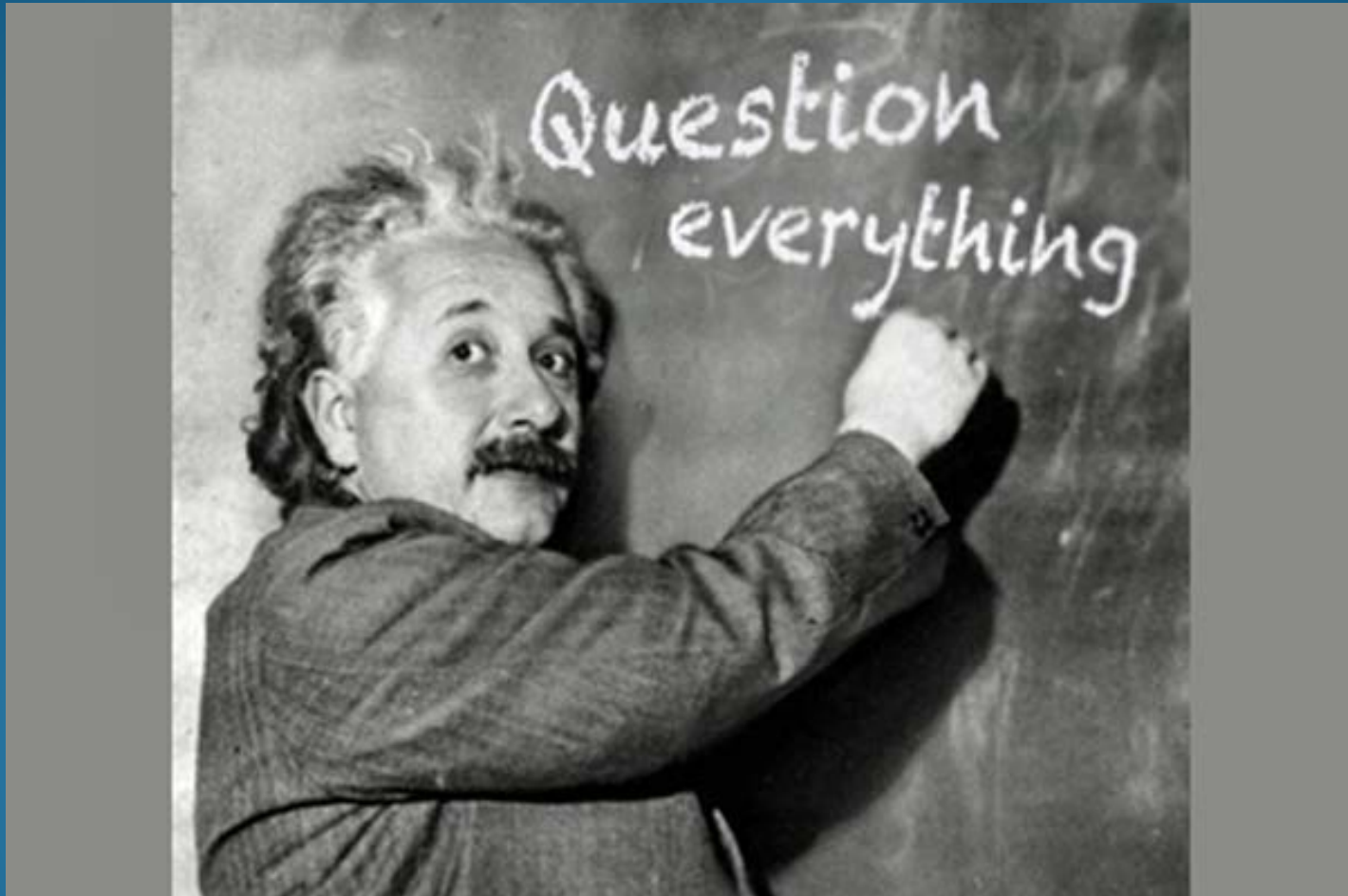
Unfavorable to ratepayers

Unfavorable for jobs & new industry

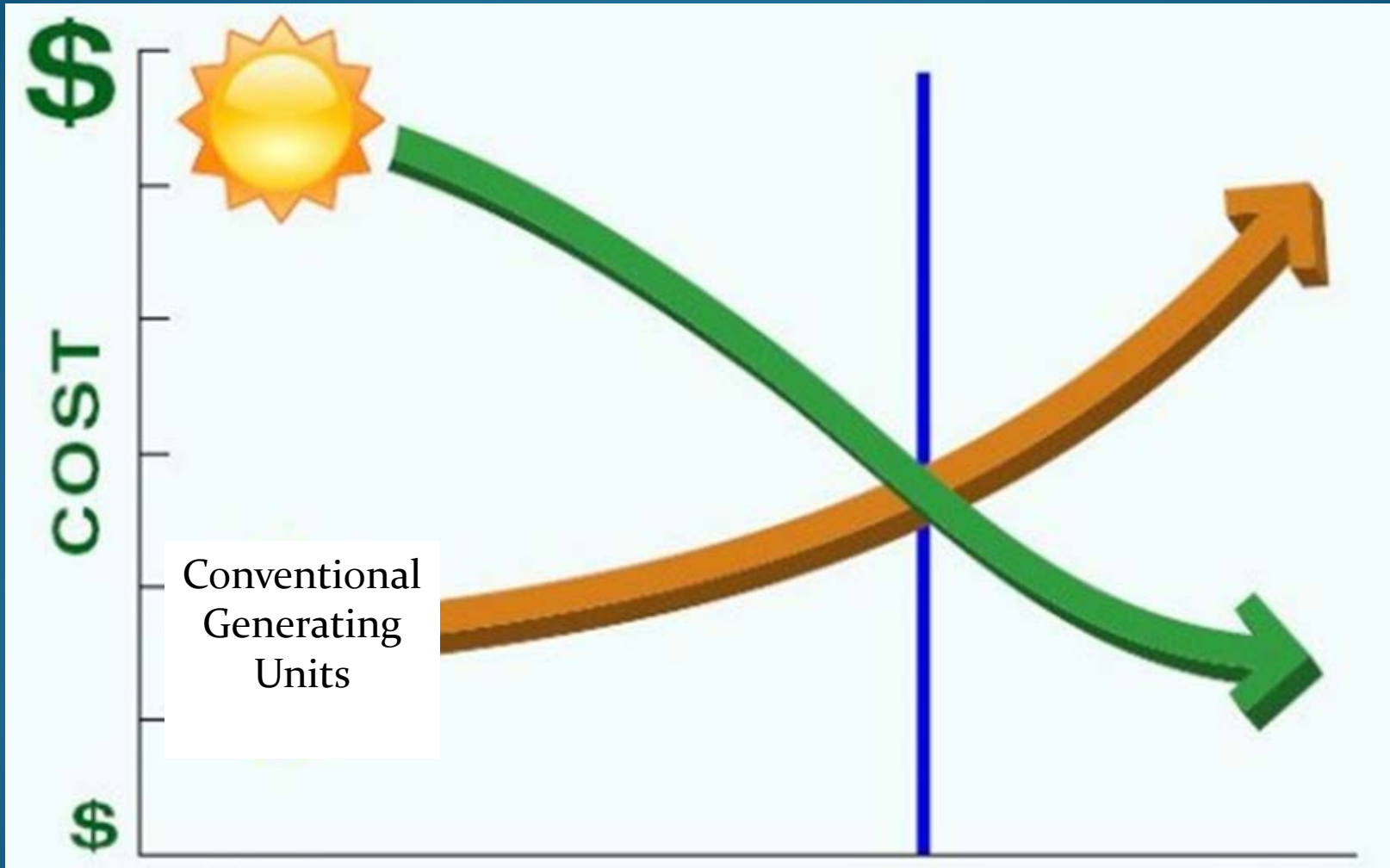
Unfavorable for the environment

Economically hazardous for utilities

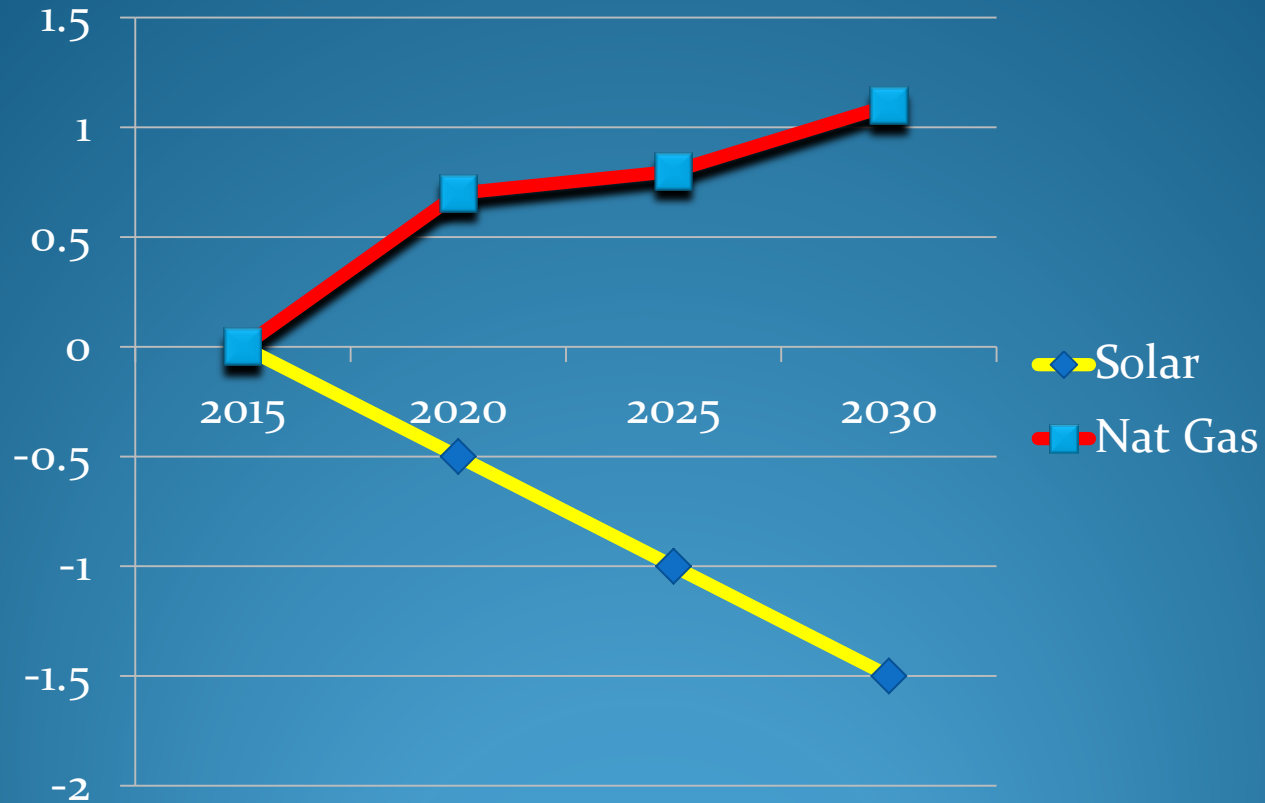
Is there a better way?



New Tech cheaper

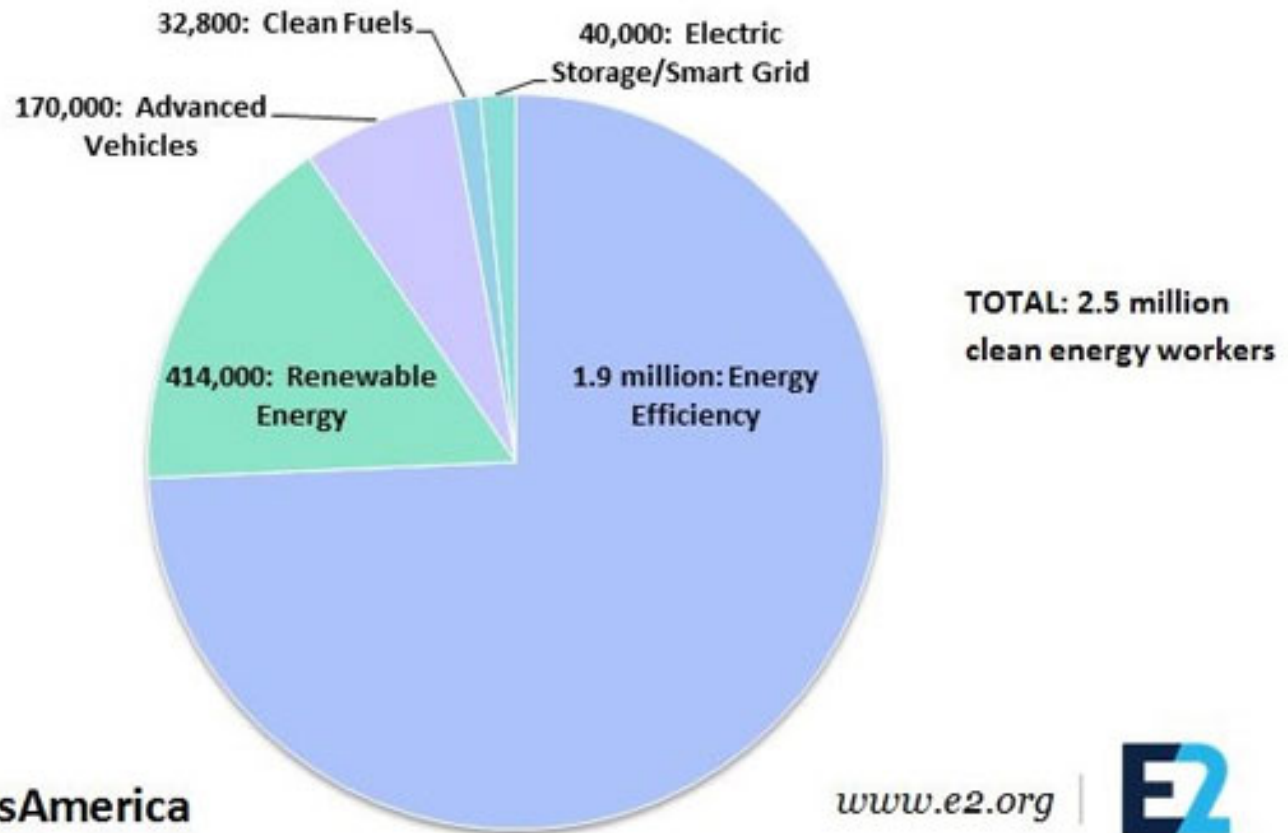


Diverging Cost Curves



This is where the jobs are!

Clean Energy Workers in America: Sector Breakdown



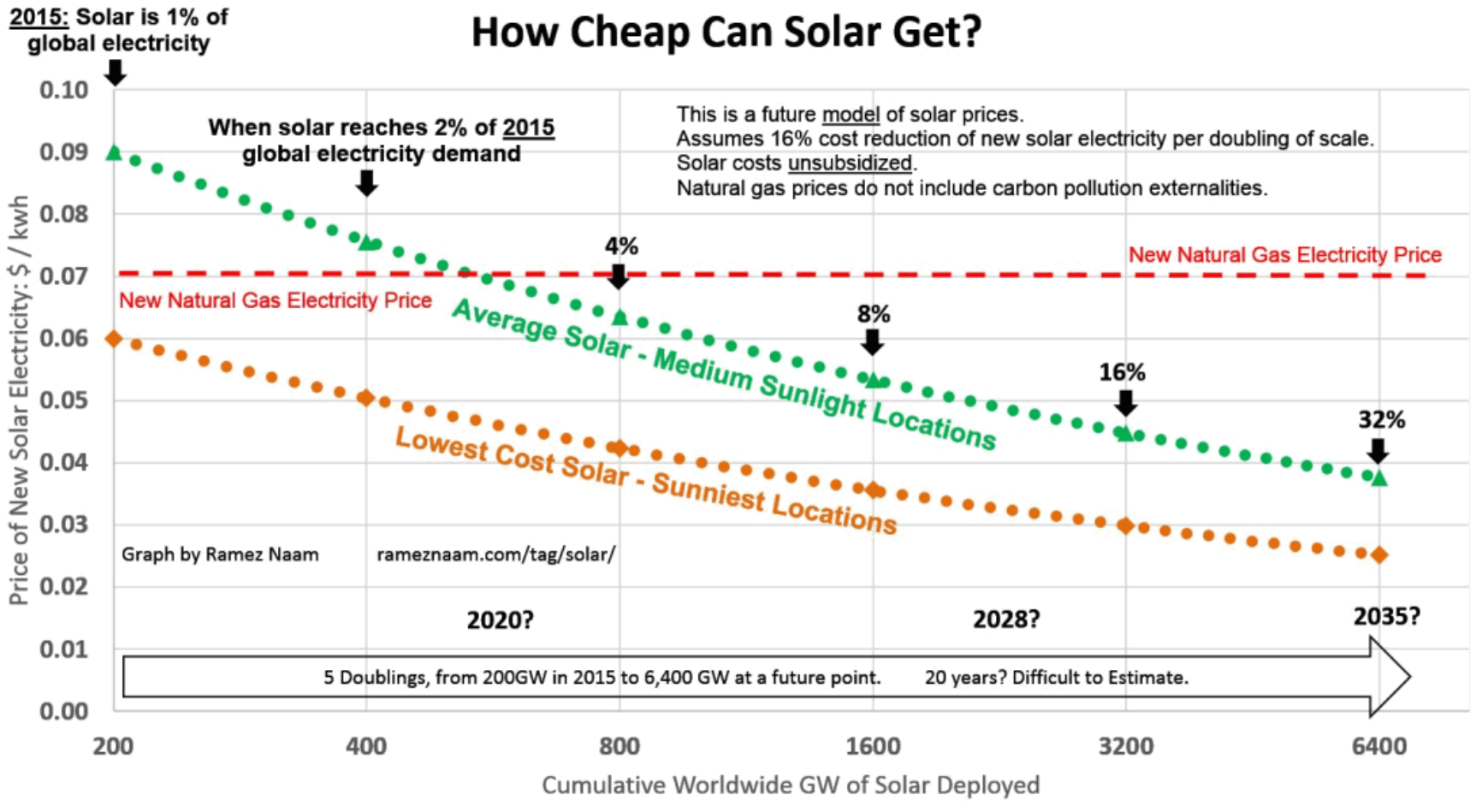
#CleanJobsAmerica

www.e2.org



Lower Energy Costs

Declining vs increasing costs



Best for the Environment

No CO₂ No methane



It Destroys the Utility Business Model



We Need Healthy Utilities

Reset their role

Crucial to any modern energy system



How would it work?

Policies to encourage EE – stable demand

Federal – bases offices State Gov't offices Univ. & Hosp

Remove obstacles to 3rd parties - jobs

Existing units cover nighttime

Storage saves new gas plants

Solar + pumped storage – after 2030

Attract New Industry

RE 100 top companies – 100% renewable



New Path

Utilities prosper – serving ratepayers

Performance based rates

Remove incentive to build & own it all

Environment benefits

Use rate hiatus to develop new plan

Utilities can't do it alone

Political leadership and policymakers

