WHY ADVANCED NUCLEAR IS CHANGING THE NUCLEAR ENERGY FINANCING PARADIGM

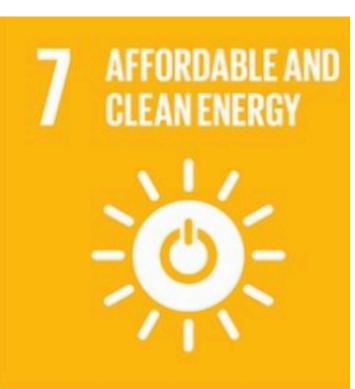


Valerie Gardner Founding Principal Nucleation Capital

July 16, 2019

A key SDG: Signed by all nations





More reliance on the private sector

"An increased reliance on the private sector to fund later-stage research, development, and commercialization of energy technologies . . ."





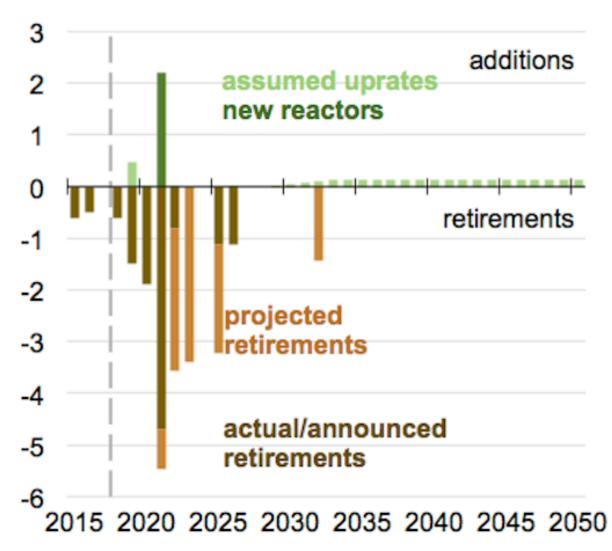
DEPARTMENT OF ENERGY

The Department of Energy (DOE) is charged with ensuring the Nation's security and prospe transfer native science and technology solutions. The Budget for DOE demonstrates the tration's commitment to reasserting the proper role of what has become a sprawling Government and reducing deficit spending. It reflects an increased reliance on the price technologies and focuses resources toward early-stage research and development. It zes-energy technologies best positioned to enable American energy independence and domest job-growth in the near to mid-term. It also ensures continued progress on cleaning up site a path growth of the control of the cont

The President's 2018 Budget requests \$28.0 billion for DOE, a \$1.7 billion or 5.6 percent decrease from the 2017 annualized CR level. The Budget would strengthen the Nation's nuclear capability by providing a \$1.4 billion increase above the 2017 annualized CR level for the National Nuclear Security Administration, an 11 percent increase.

Year-Over-Year Nuclear capacity change

(EIA)



R's and D's agree on some things!



Move from this . . .



To this!!



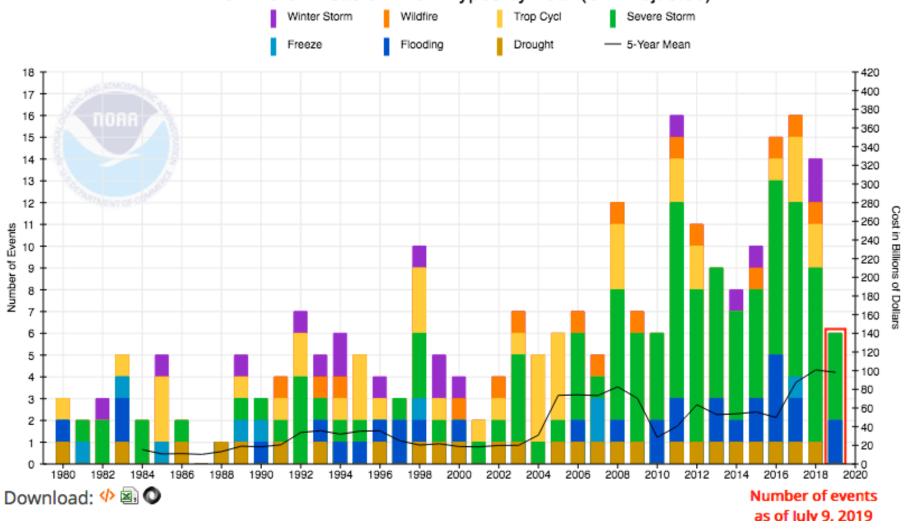
What if we could move quickly from this technology era . . . to this?

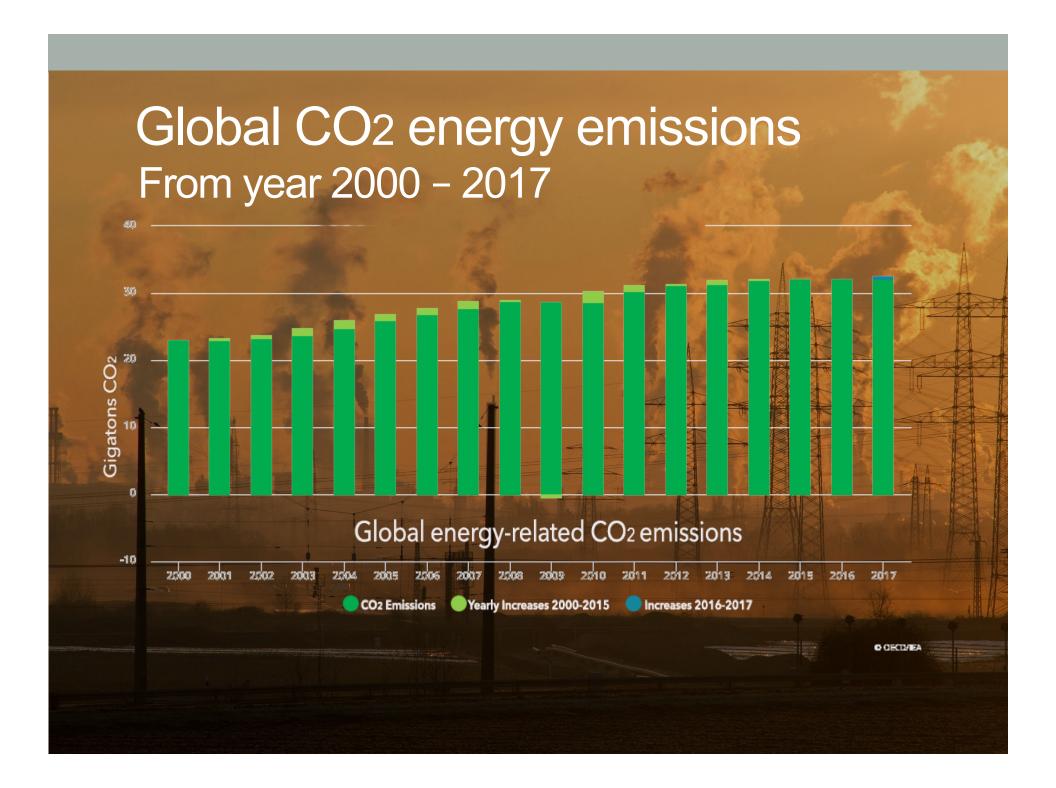




Billion-Dollar Disasters by Year







Young people are rightly worried



PRI: THE WORLD'S LARGEST GROUP FOCUSED ON RESPONSIBLE INVESTING



Climate change

Climate change is the highest priority ESG issue facing investors. The PRI is working to help investors protect portfolios from risks and to expose them to opportunities in the shift to a low-carbon global economy.

Collectively, over 65,000 investing organizations and individuals with responsibility for \$120 trillion, are committed to decarbonization.

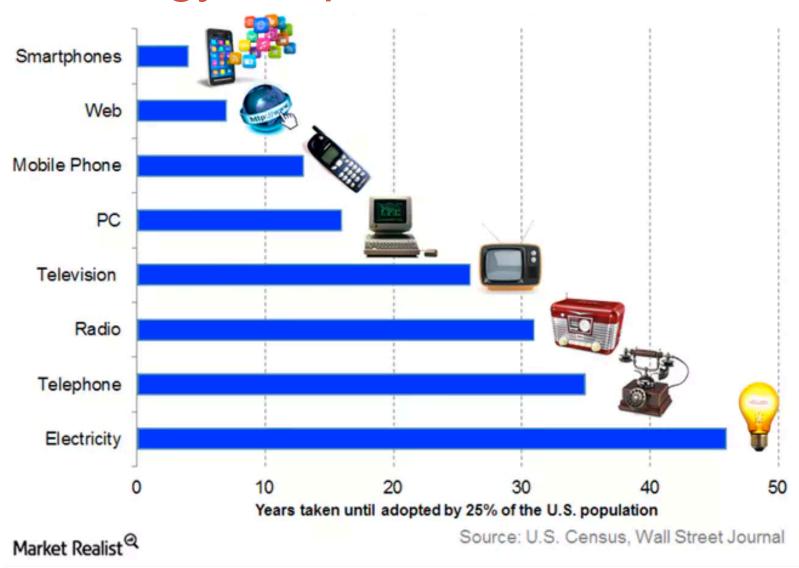
Xcel Energy wants carbon-free electricity by 2050

Colorado's largest utility ups the ante in its plan for renewables





Technology Adoption Rates



Google

Achieving Our 100% Renewable Energy Purchasing Goal and Going Beyond

From the conclusion on page 12:

2. Pursuing technology approaches that advance 24-7 clean energy

As we search for renewable energy projects in every market where we have significant operations, we'll also keep in mind our ultimate goal of 24-7 clean energy. This means that as part of our energy supply portfolio, we will need to address the variability associated with renewables through advanced technological approaches, among other means.

To this end, in complement to our wind and solar purchasing, in the future we may pursue dispatchable, zero-carbon generation energy options for our portfolio. These options could include purchasing energy from technologies like renewables paired with utility-scale energy storage, advanced nuclear power, geothermal energy, low-impact hydro, demand response and energy efficiency resources, or others.

Will nuclear join the conversation?

NUCLEAR ENERGY

Ocasio-Cortez: Green New Deal 'Leaves the Door Open' on Nuclear

Freshman lawmaker clarifies that the resolution 'leaves open both clean and renewable energy'



What's your vision of the future?



BRIEF

Nuclear power industry heading toward smaller, cheaper, faster build designs: ClearPath "The key to making great investments is to assume that the past is wrong, and to do something that's not part of the past, to do something entirely differently."

—Donald Valentine

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