

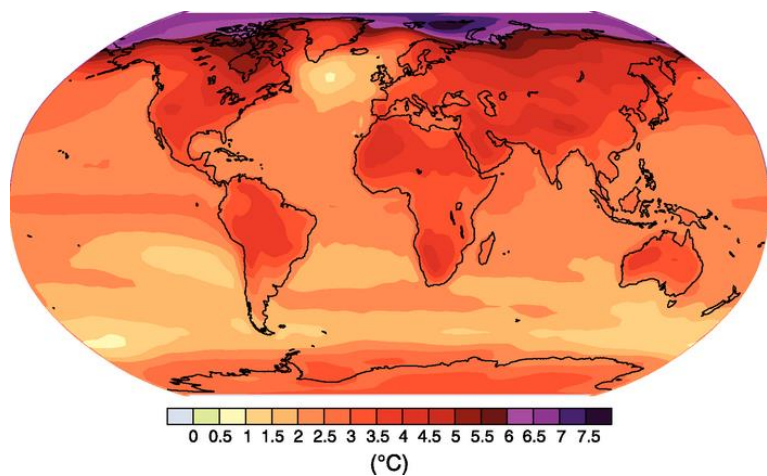


## Two existential threats

Daniel B. Poneman  
President & CEO  
Centrus Energy Corp.  
Sept 11, 2015


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# Two existential threats:



# Goals: Address climate change and nuclear dangers

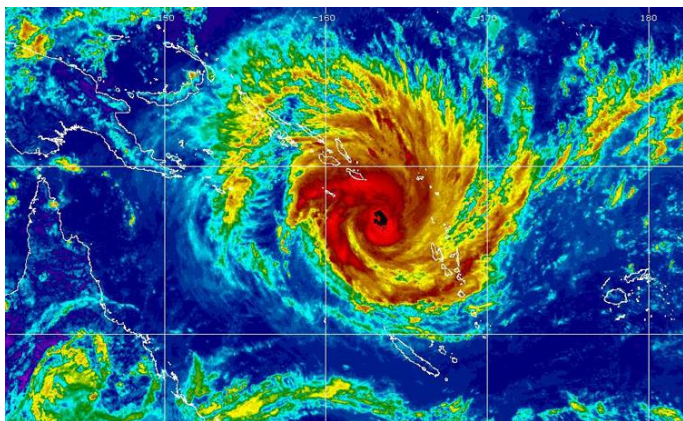
Friedrich Nietzsche



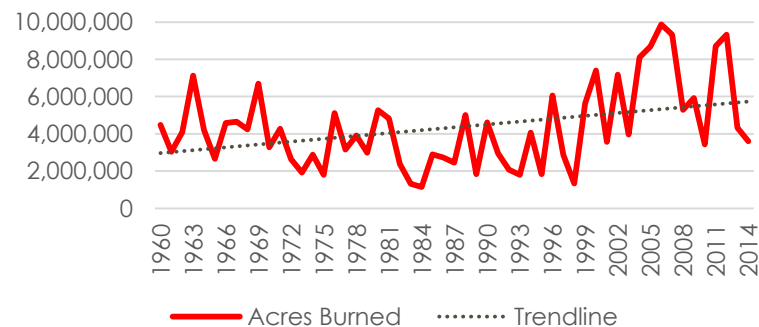
The most fundamental form of human stupidity is forgetting what we were trying to do in the first place.

AZ QUOTES

# Climate change is here

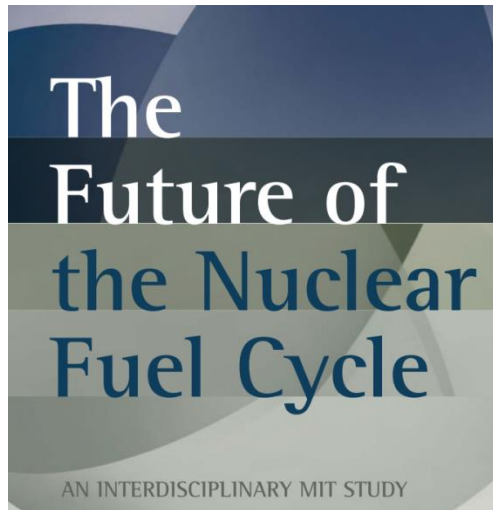


**U.S. Wildland Fires: 1960-2014**

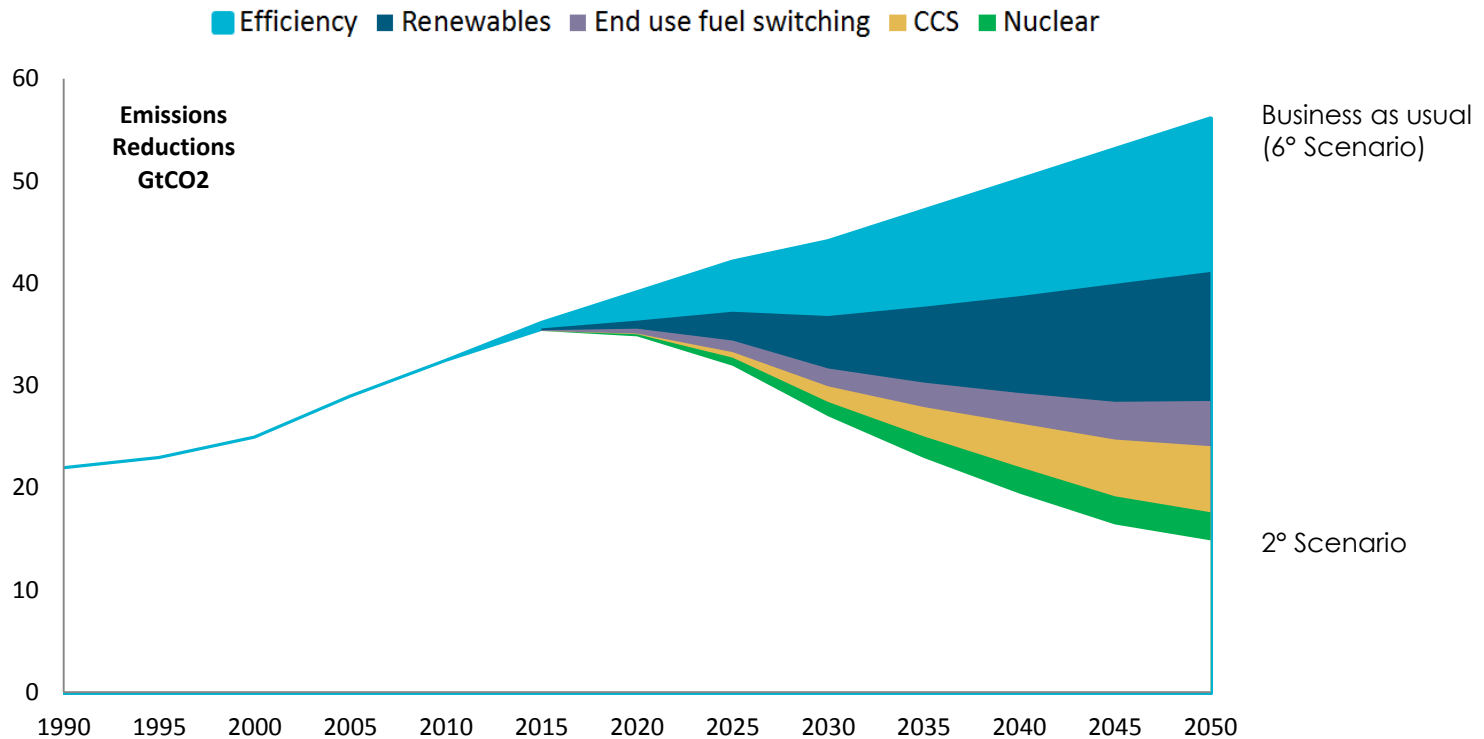


Source: National Interagency Fire Center

# All of the above



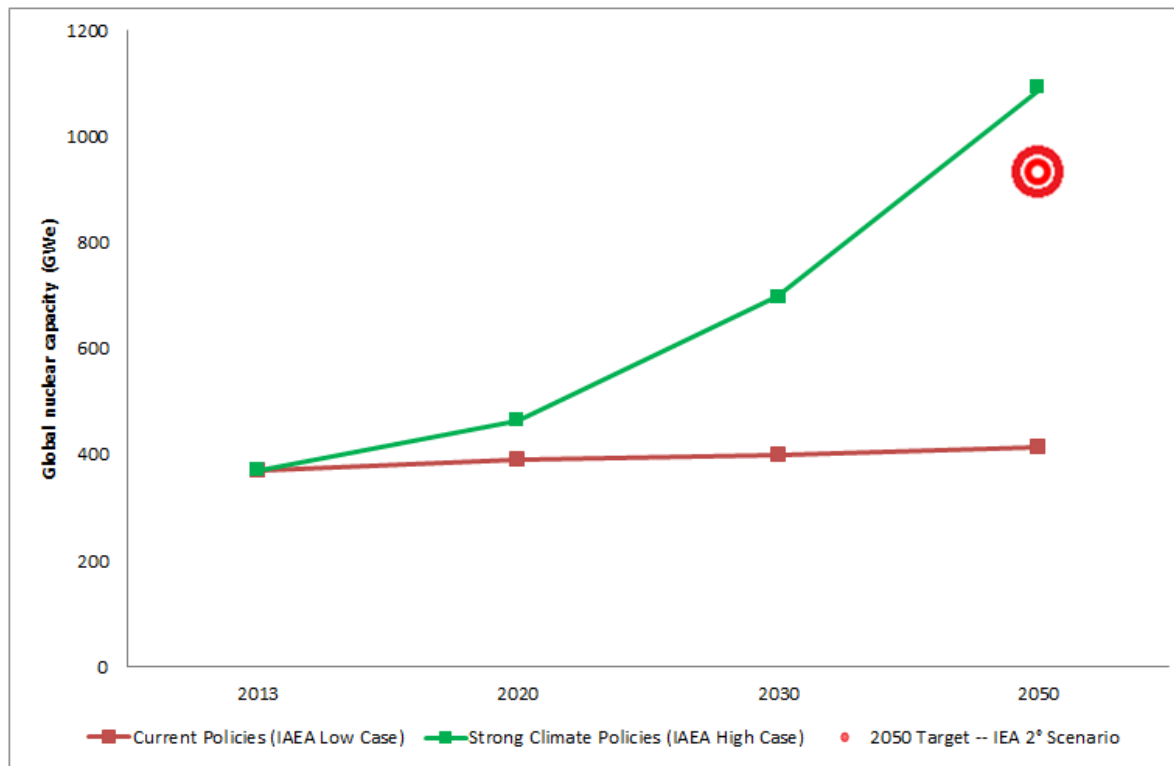
# Emissions Reductions to Achieve 2° Scenario



# The future of nuclear energy

- WNA:
  - 60 new reactors under construction
  - ~500 new reactors planned or proposed
- Factors affecting nuclear:
  - Alternative energy sources
  - Costs
  - Safety
  - Environment
  - Non-proliferation

# Changing the trajectory with effective climate policies



Source: IAEA projections, IEA 2DS scenario



# Nuclear fuel service needs:

- Sufficiency
- Reliability
- Diversity
- Competition

***These attributes support nonproliferation, energy security, competitive nuclear power.***

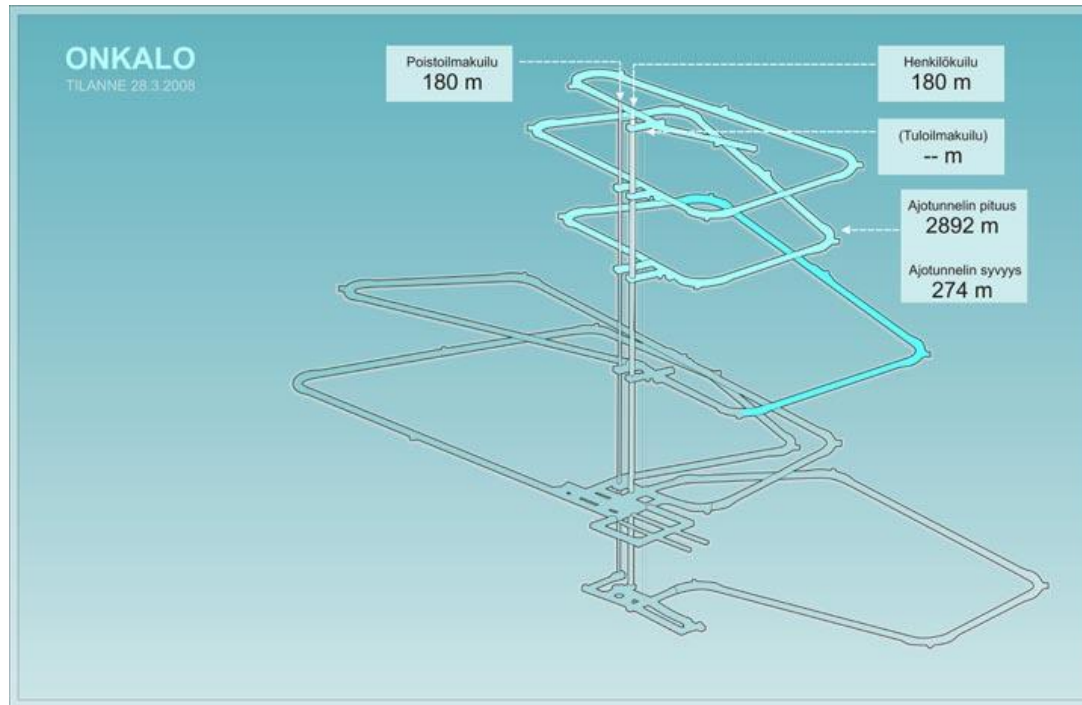
# Past success: Montreal Protocol

“There were ozone skeptics back then, just as there are climate skeptics now. But we all agreed that, if what some scientists feared were to happen, it would be disastrous. So we took out an insurance policy.”

– Secretary George Schultz



# Finland: a consent-based approach to used fuel storage

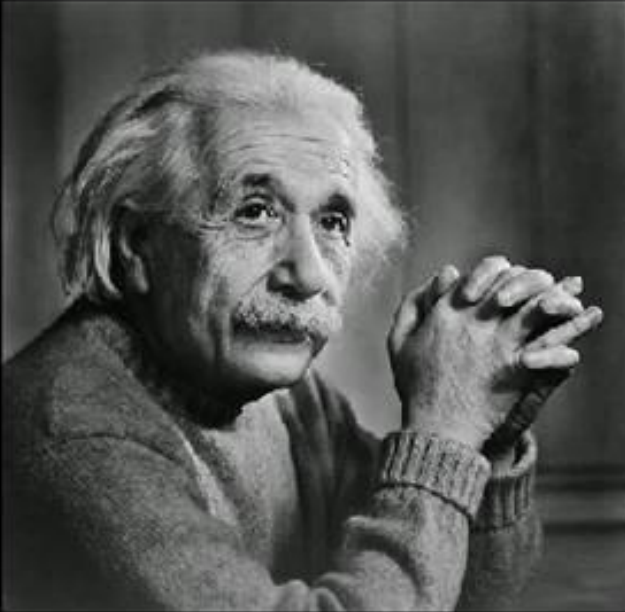


# Lessons from Iran



# Assured nuclear fuel supply

- Highly developed fuel cycle exists, including significant surplus of enrichment capacity
- International consortia can offer assured nuclear fuel services and advanced fuel cycle cooperation
- Provide confidence to governments and reactor operators that fuel requirements met
- Backed by commercial, governmental and multilateral guarantees and fuel banks



This basic power of the universe cannot be fitted into the outmoded concept of narrow nationalisms... there is no possibility of control except through the aroused understanding and insistence of the peoples of the world.



**Centrus**

*Fueling the Future  
of Nuclear Power*