CENG
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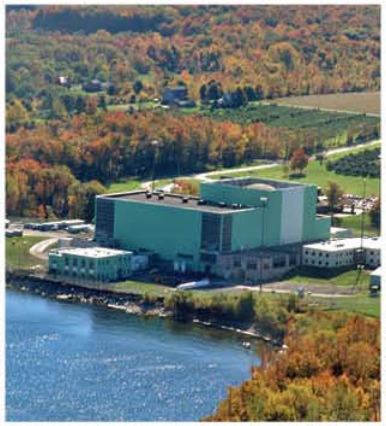
Brew Barron, CENG CEO





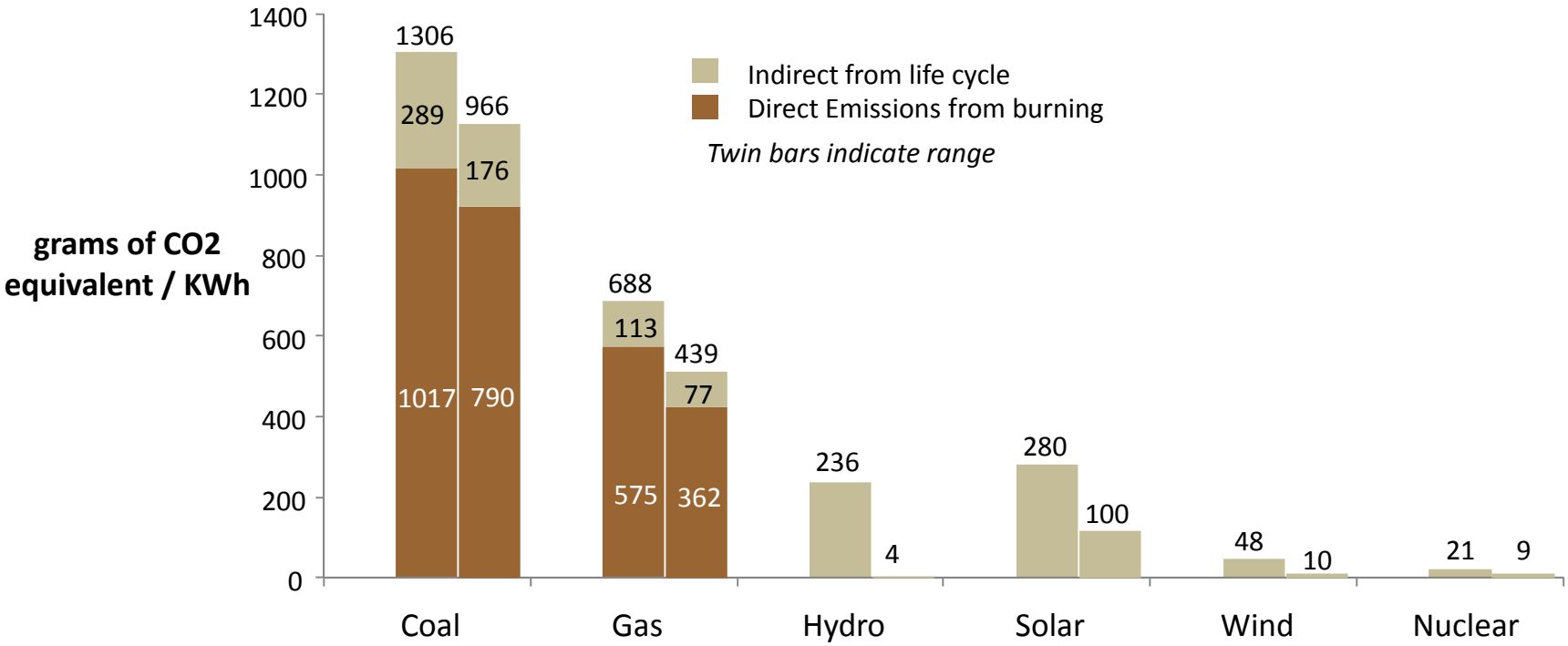
Extending life beyond 60 years is not just an academic study

February 22, 2011

Life Beyond 60 years workshop

Nuclear Power is important to a US energy strategy

- Low carbon emissions



Source: EIA 2000

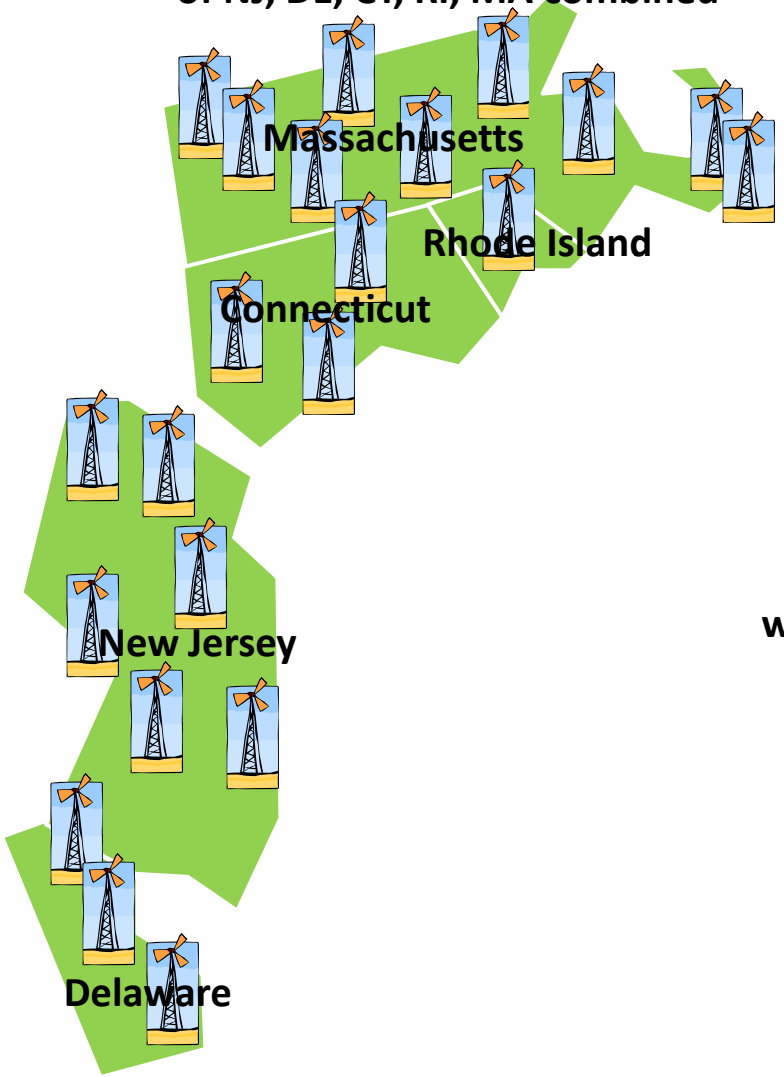
Replacing current nuclear generation with:

Solar panels

would require usage of land the size of New Jersey

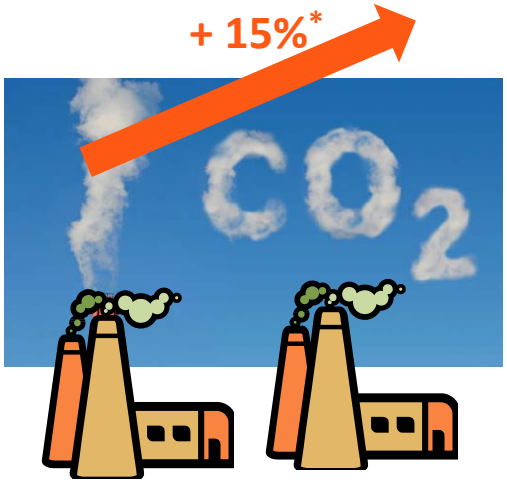
Wind turbines

would require usage of land the size of NJ, DE, CT, RI, MA combined



Gas plants

would increase greenhouse gas emissions from electric power generators by 15%

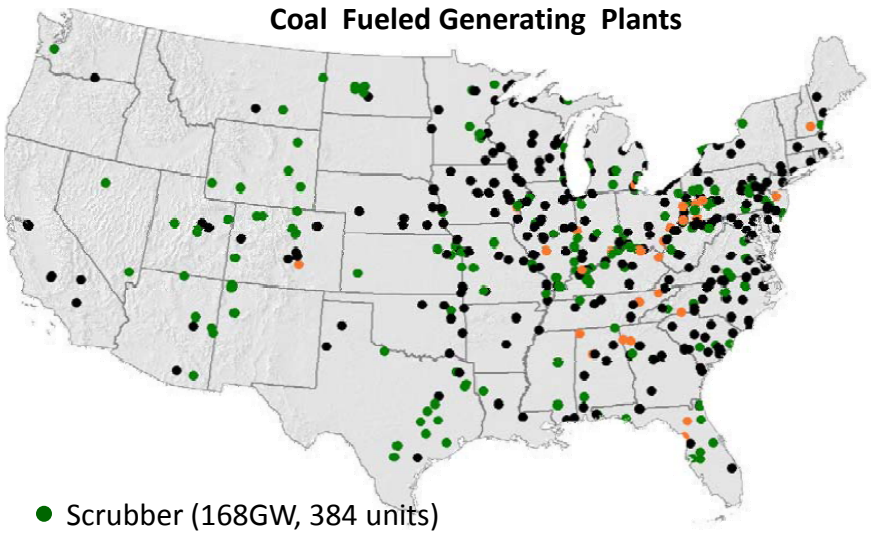


would increase gas demand and gas and electric prices with it

Coal Plant Retirement, Baseload demand increase…

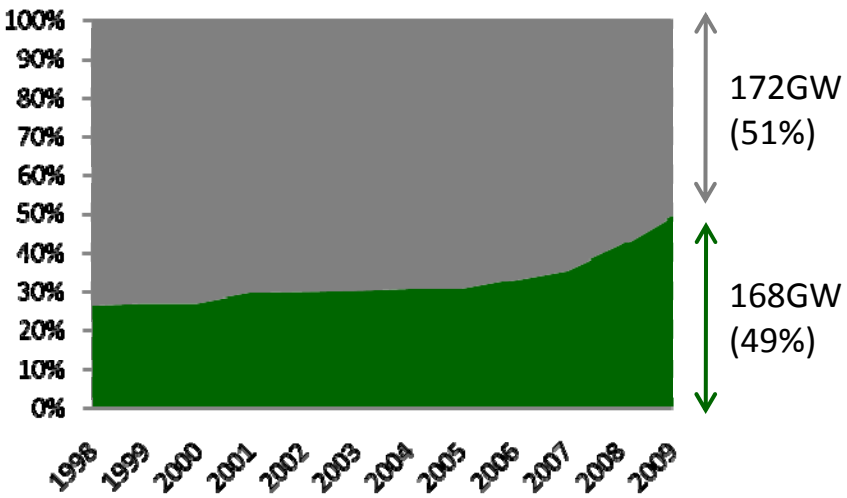
50% coal plants may be phased out

Coal Fueled Generating Plants

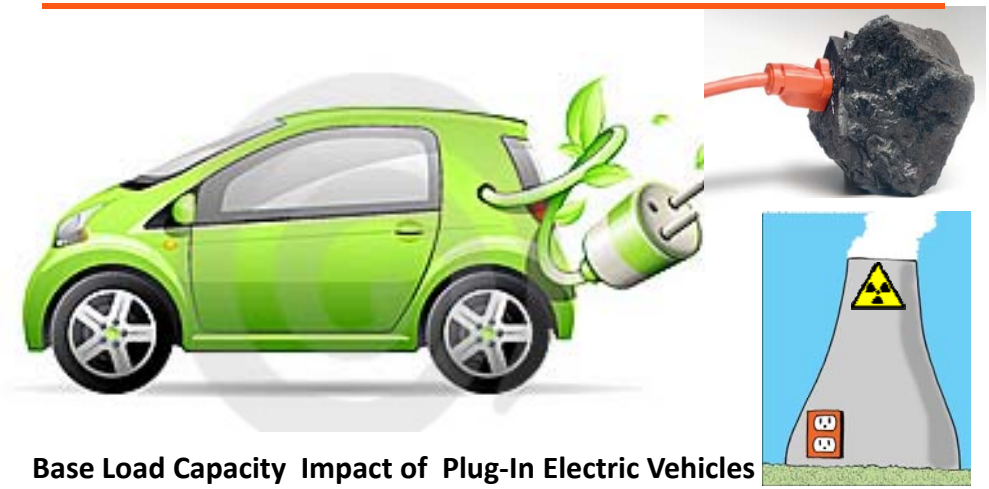


- Scrubber (168GW, 384 units)
- No Scrubber (172GW, 1082 units)
- Planned

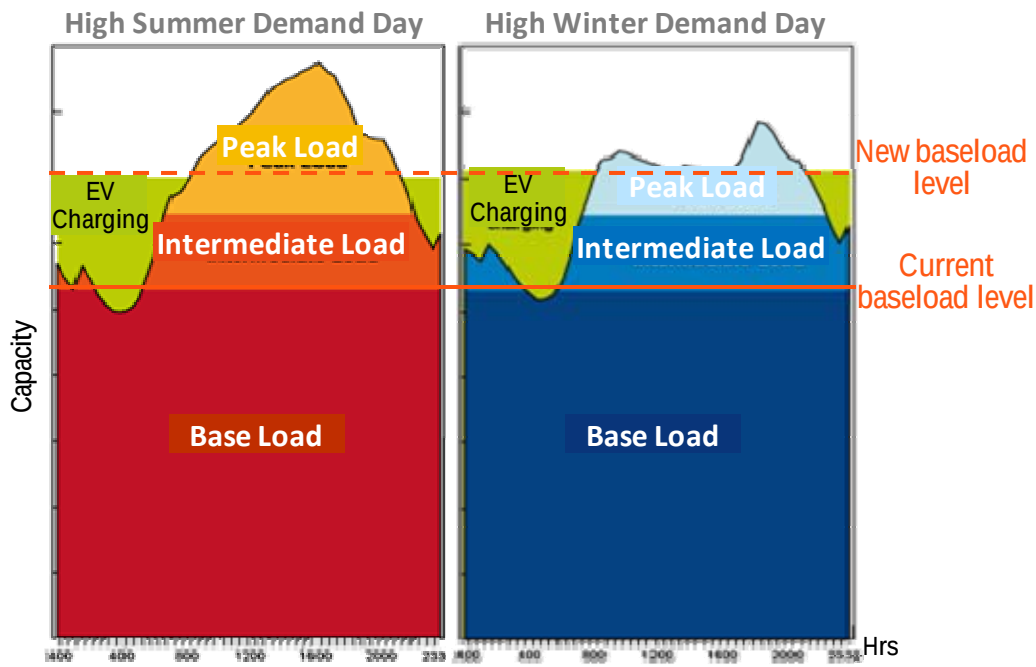
% of Coal Plant Capacity with Scrubber (2009 data)



Electric Vehicles will create baseload power need



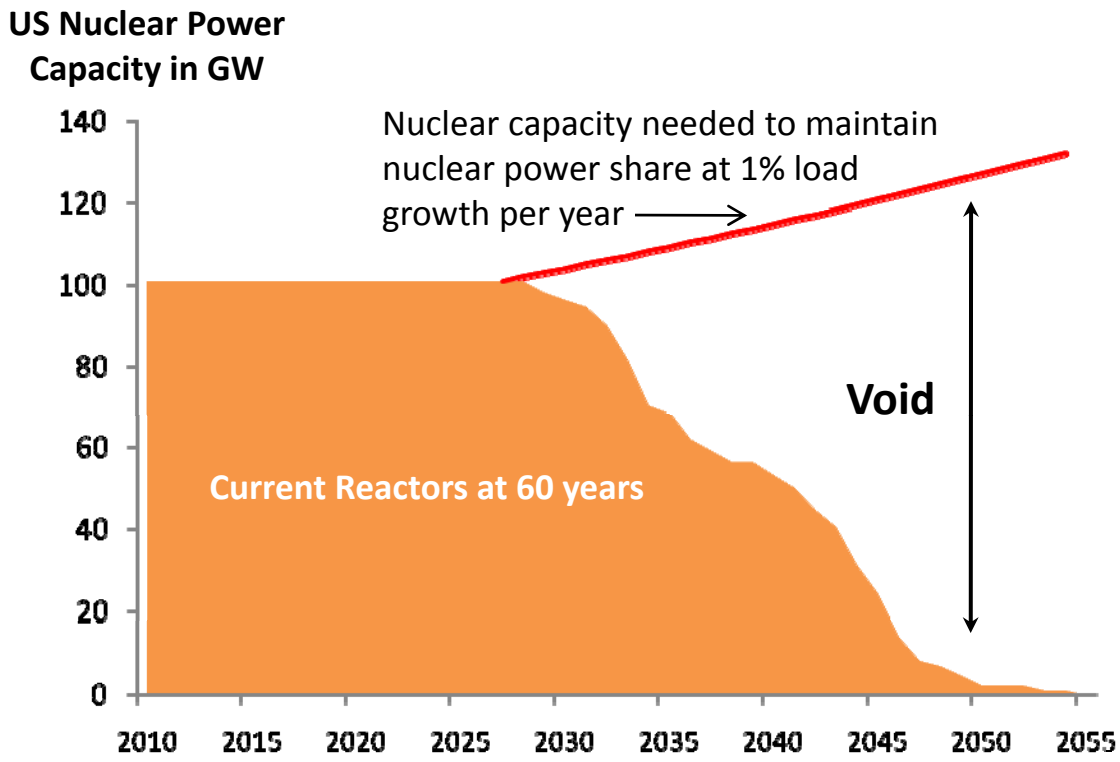
Base Load Capacity Impact of Plug-In Electric Vehicles



Load Curve for Typical Electric Grid

Source: Scrubber (EIA), Electric Vehicles (World-Nuclear)

Filling the void



We know

- 10CFR54 is a mature and robust regulatory framework for license extension

We don't know

- Any technological show stopper to safe and reliable operations beyond 60 years

Ensuring the question of life extension beyond 60 years is not an academic study, it is an environmental imperative

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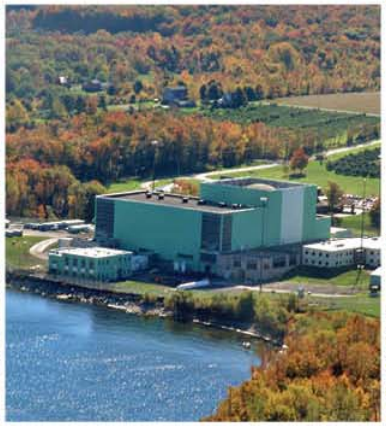

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