

ANS Annual Meeting Customers for Advanced Reactors?

Nick Irvin, PE

Research and Technology Management

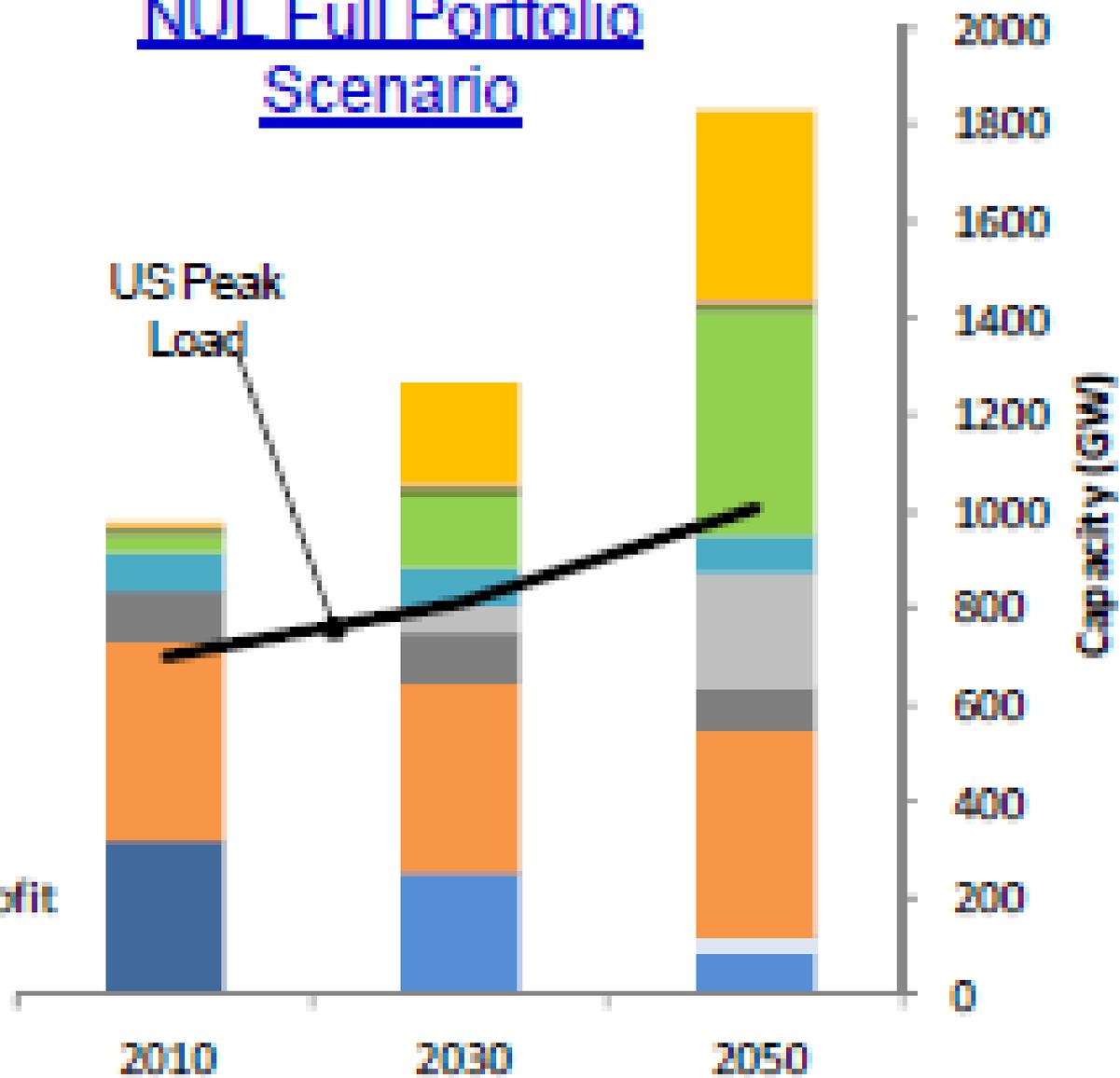


Southern Company Perspective on Advanced Reactors

- Advanced Reactors have a role in the future of nuclear energy
- Uncertainty created by non-traditional energy sources dictate technology responses that create options
- Successful RD&D requires:
 - Active participation by end users
 - Public/private partnership to manage risk of technology development
 - Robust engagement by all stakeholders to streamline deployment
- Goal – successful demonstration of multiple options creating robust commercial market

NUL Full Portfolio Scenario

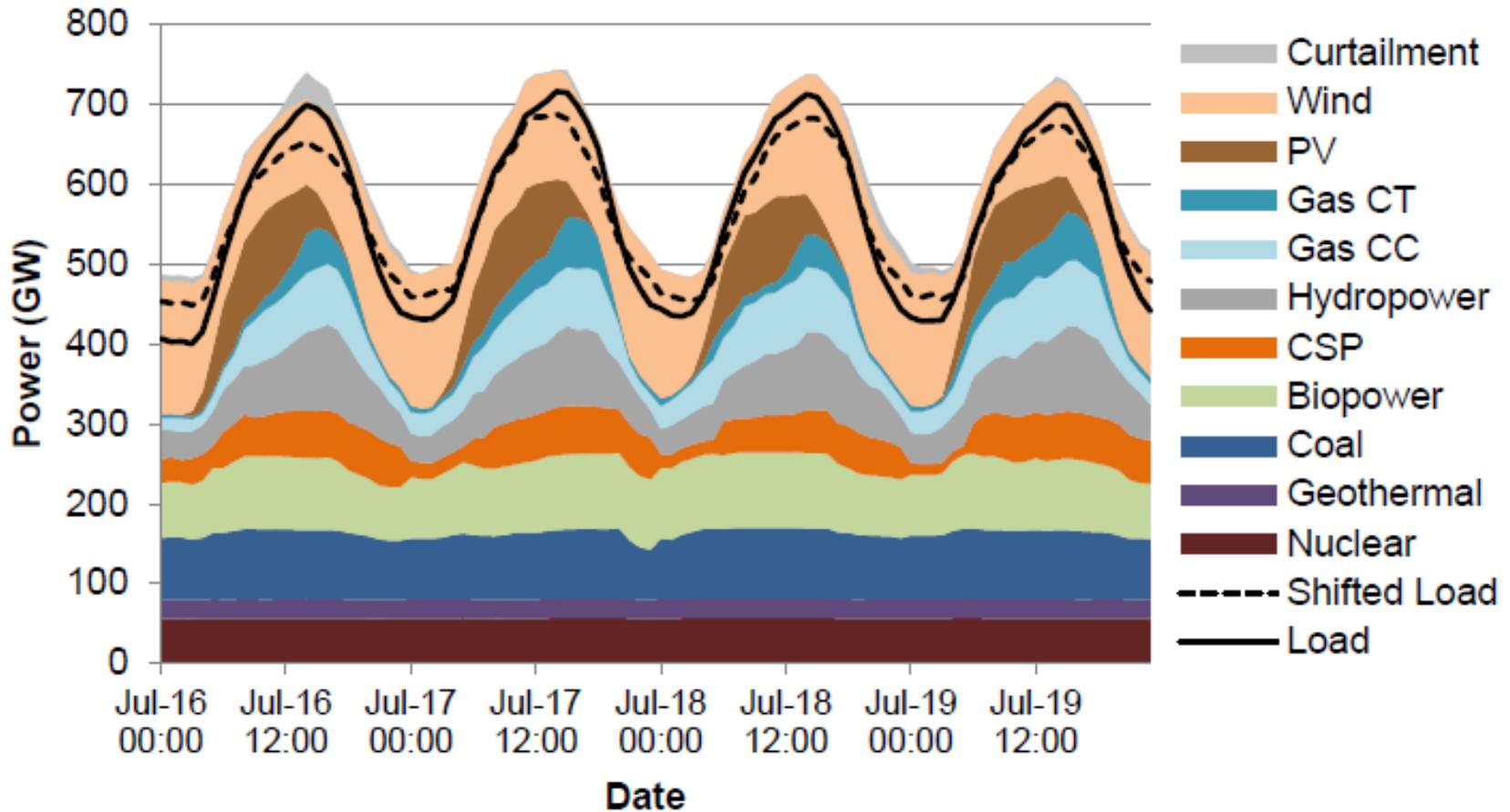
- Solar
- Geothermal
- Biomass
- Wind
- Hydro+
- Nuclear (New)
- Nuclear (Existing)
- Gas
- New Coal w/CCS
- Environmental Retrofit
- Existing Coal



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NREL's Future



(a) Summer peak load in 2050

Transportation?

The image shows a screenshot of a web browser displaying the Toyota Mirai website. The browser's address bar shows the URL <http://www.toyota.com/fuelcell>. The page features the Toyota Mirai logo and navigation links for "LEAVE YOUR MARK" and "SIGN UP". The main content area has a blue background with a blue Toyota Mirai car parked in front of a modern building. The text "WE'VE REACHED THE TURNING POINT" is prominently displayed, with a location pin icon next to "THE TURNING POINT". Below this, there are two buttons: "EXPLORE THE TOYOTA FCV" and "PLAY INTRO VIDEO". The Windows taskbar at the bottom shows the time as 9:49 PM on 2/11/2015 and the user name Nick Irvin.

http://www.toyota.com/fuelcell

MIRAI TOYOTA FCV

LEAVE YOUR MARK

SIGN UP

WE'VE REACHED

THE TURNING POINT

EXPLORE THE TOYOTA FCV

PLAY INTRO VIDEO

9:49 PM
2/11/2015

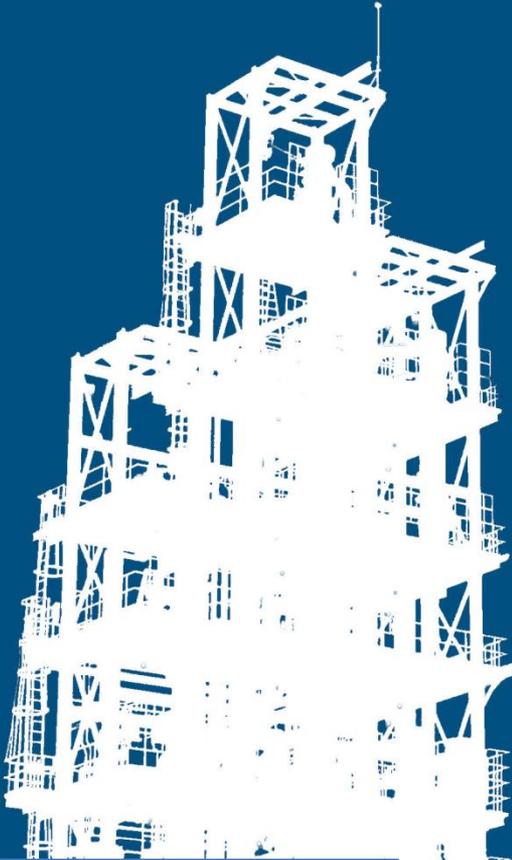
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target
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Project Facts



U.S. DEPARTMENT OF
ENERGY



Performance Period

10/01/2008 to 12/31/2014

Total Project Value	\$251M
DOE	\$201M
Non-DOE	\$50M

Performance Period

6/05/2014 to 05/30/2019

Total Project Value	\$188M
DOE	\$150M
Non-DOE	\$38M

Award Number DE-NT0000749

Award Number DE-FE0022596



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