

Modernizing Integrated Resource Planning

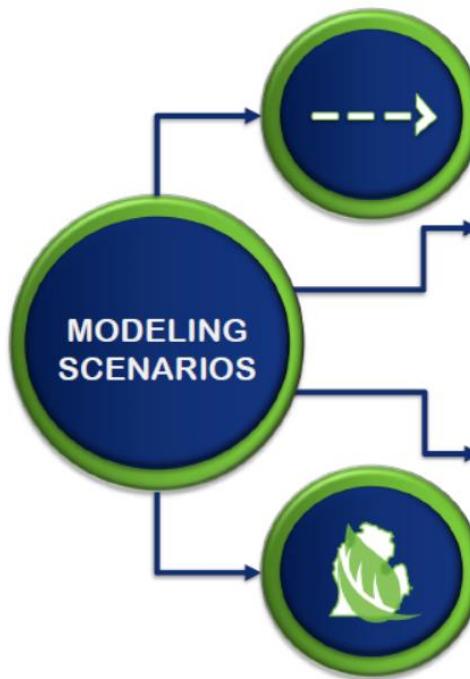


Sean Gallagher,
VP State Affairs
SEIA

New Michigan IRP Filing Requirements



IRP Filing Requirements



Business as Usual

- Future supply assuming status quo

Emerging Technologies

- Potential impact from emerging technologies (e.g. Demand Response (DR), Energy Waste Reduction (EWR) large & small-scale storage, solar)

High Market Price Variant

- Upper Peninsula utilities only
- High natural gas prices

Environmental Policy

- MI Lower Peninsula utilities only
- Hard cap on carbon for 20-yr horizon

Table of recommended input assumptions & sources (IX.) to be used w/ scenarios & sensitivities

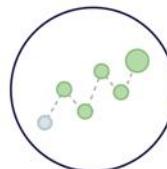
- Analysis period, model region, load forecast, financial assumptions & economic indicators, unit retirements, fuel prices, EWR & DR savings and costs, renewable energy (RE) capacity factors & costs, other/emerging alternatives, wholesale electric prices

Source: https://www.michigan.gov/documents/mpsc/Integrated-Resource-Planning-Presentation-2018-2019_635104_7.pdf

7

November 19, 2018

www.seia.org



Solar Energy
Industries
Association®

Consumers Energy IRP

CONSUMERS ENERGY PROPOSES LONG-TERM PLAN, A CLEANER ENERGY FUTURE FOR MICHIGAN

Jun 13, 2018

Consumers Energy today announced it is seizing a once-in-a-generation opportunity to reshape Michigan's energy future.

The company will file an Integrated Resource Plan (IRP) this week with the Michigan Public Service Commission (MPSC) that outlines the path to using zero coal while ensuring affordable and reliable energy for Michigan's families and businesses. . . .

In-depth modeling analysis showed higher levels of energy efficiency and demand management programs and renewable energy are the best and most affordable way to meet customers' needs in the future.

Under the IRP, demand response, energy efficiency, and grid modernization tools would take on more significant roles. . . . Consumers Energy also would add 5,000 megawatts of solar energy throughout the 2020s, along with wind and battery storage.

Source: <https://www.cmsenergy.com/investor-relations/news-releases/news-release-details/2018/Consumers-Energy-Proposes-Long-Term-Plan-A-Cleaner-Energy-Future-for-Michigan/default.aspx>

Michigan utility plans major shift from coal to solar in coming decades

June 13, 2018

The CEO of one of Michigan's largest utilities says solar is a better long-term investment than new natural gas plants.

Consumers Energy, which previously announced plans to close its coal-fired power plants by 2040, said Wednesday that — unlike other Michigan utilities — it won't seek to replace coal with new natural gas capacity.

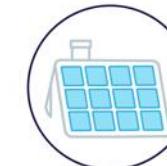
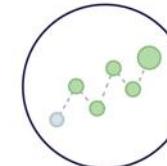
Building a natural gas plant would risk stranding the company's capital in a single asset, after which there would be "no turning back," said Consumers President and CEO Patti Poppe. Instead, the company plans to bet on solar, which can be built incrementally as needed.

"We think we have the opportunity of a generation with this clean energy plan to reshape how energy is delivered to the state of Michigan," Poppe said, noting an emphasis on smaller, more distributed generation. "This avoids big bets on large, new fossil fuel generation plants."

Source: <https://energynews.us/2018/06/13/midwest/michigan-utility-plans-major-shift-from-coal-to-solar-in-coming-decades/>

November 19, 2018

www.seia.org



NIPSCO IRP (Indiana)



Ben Inskeep

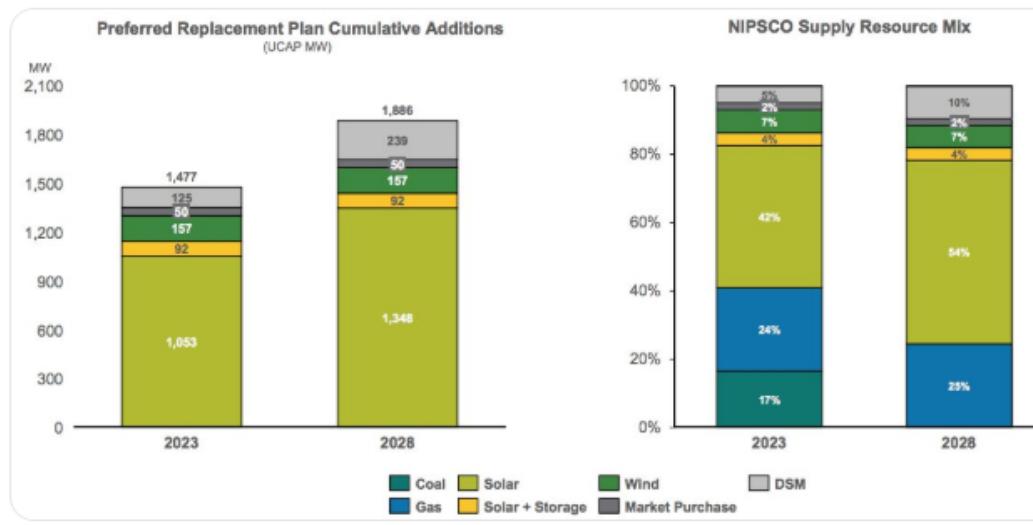
@Ben_Inskeep

Following



Here's NIPSCO's preferred plan.

Notably, it is planning for 1,348 MW of solar Unforced Capacity (UCAP) by 2028. It is not building any new natural gas. And it will reduce GHG emissions by 90% by 2030.



November '

www.seia.org

12:12 PM - 18 Oct 2018