

A New Energy Future for Michigan

Integrated Resource Plan will help lay the foundation for key decisions

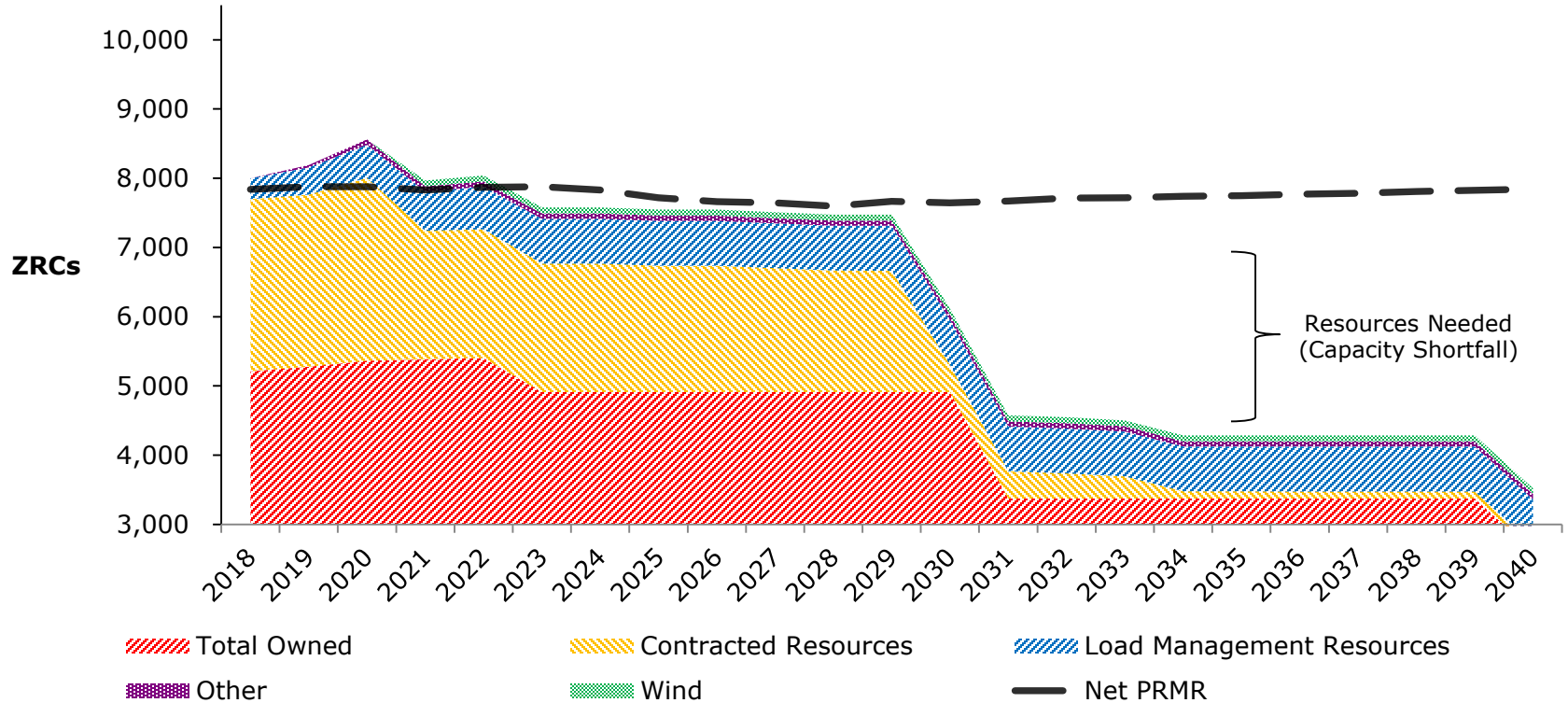
CONSUMERS ENERGY is seizing a once-in-a-generation opportunity to redefine our company and to help reshape Michigan's energy future. The plan is anchored by our triple bottom line of people, planet and prosperity.

If approved and implemented, our IRP would place us on a path to achieve these overarching clean energy goals by 2040:

- Zero coal use to generate electricity.
- 80 percent carbon emissions reduction.



Capacity Position



IRP Future Worlds Analyzed

Business as Usual



Sustained low natural gas prices and electric demand, no need for carbon regulation as a result of age-related coal retirements and renewable portfolio standards

Emerging Technologies



Technological advancements and economies of scale drive increase in clean energy (renewables, energy efficiency, demand response);

Environmental Policy



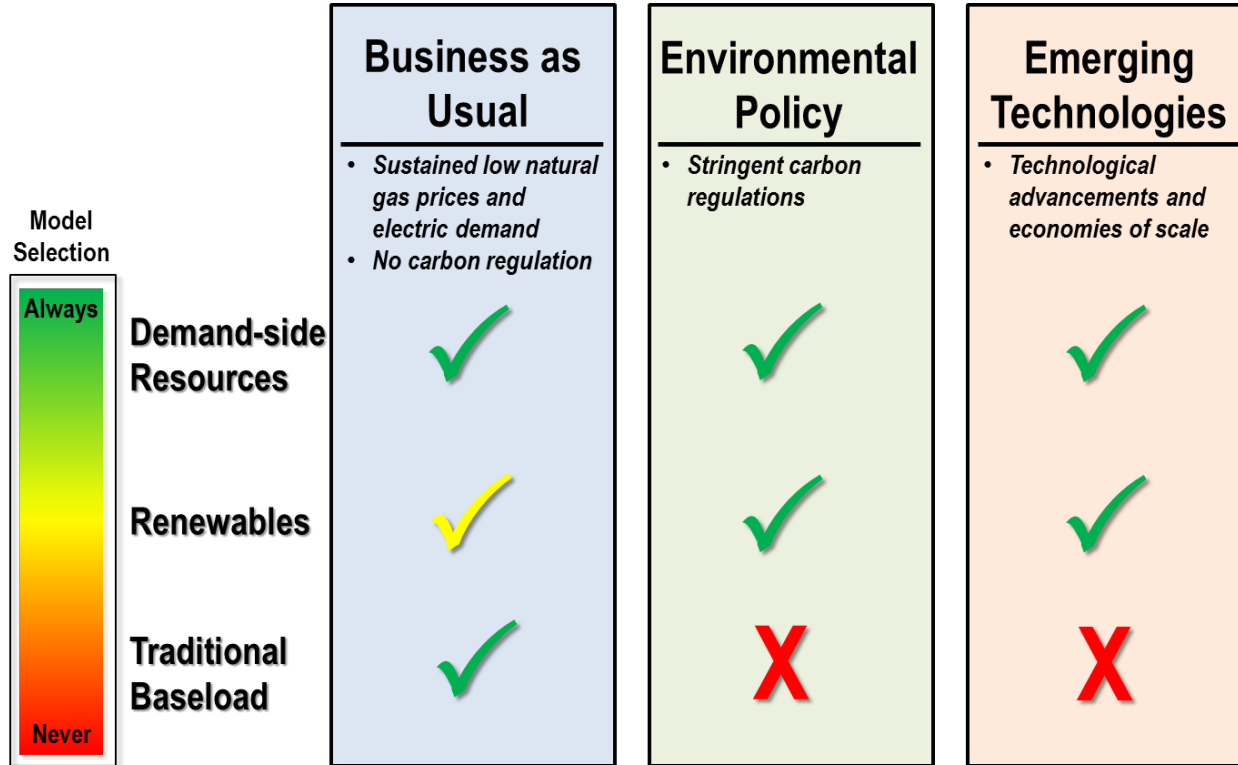
Stringent carbon regulations drive increased coal retirements and higher reliance on natural gas while clean energy programs and standards are raised

A Range of Supply Options



Robust exploration of future worlds and supply options.

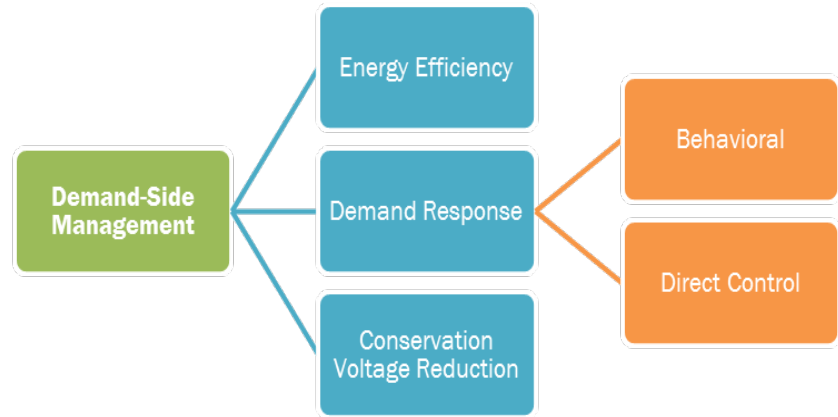
Modeling Results



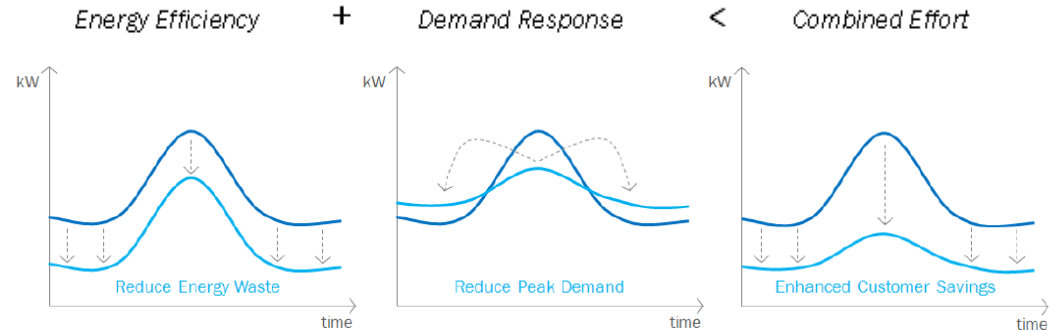
Almost always, demand-side resources and Renewables are selected.  Count on Us®

Demand-Side Management Programs

- A suite of programs targeting residential, commercial, and industrial customers to reduce loads and stresses on the electrical system when needed most.



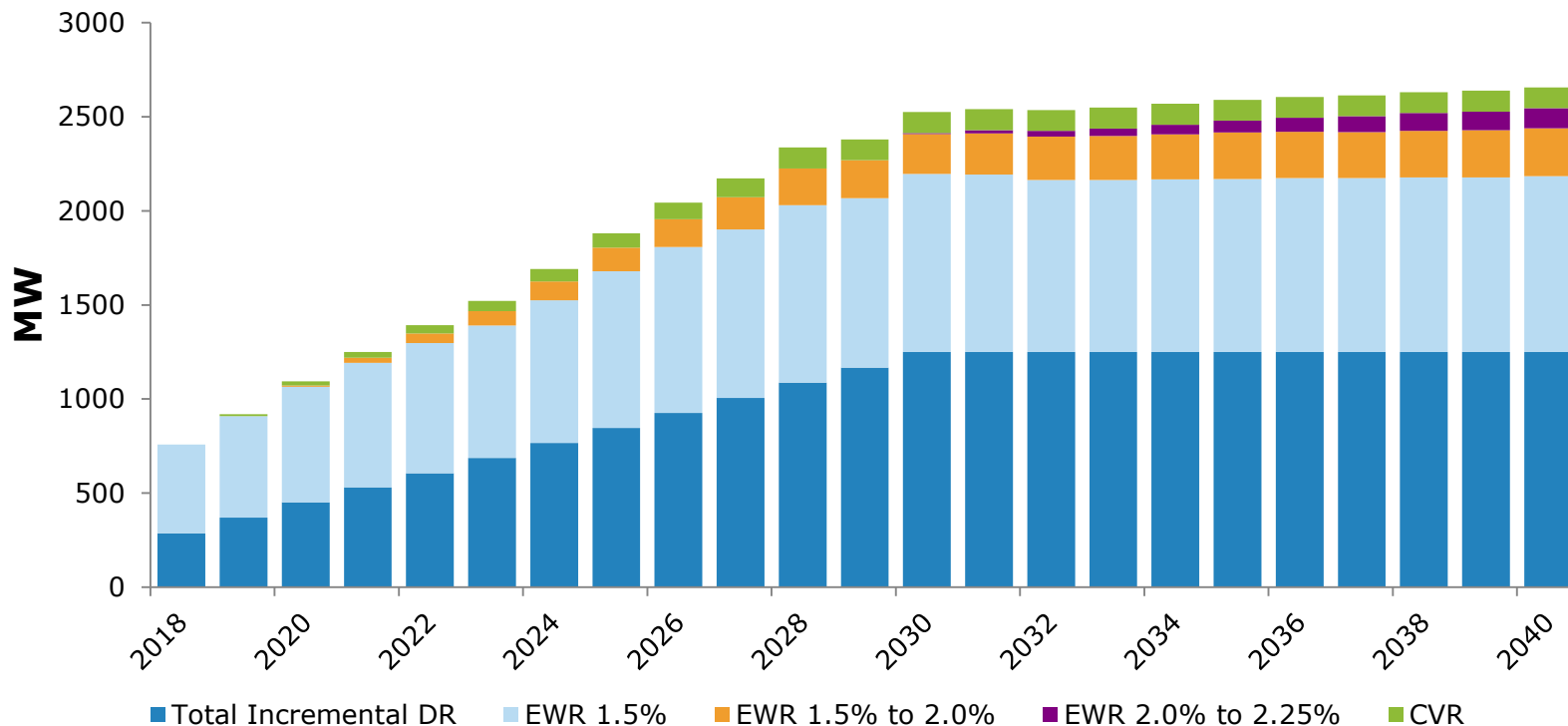
- Customer savings are enhanced through synergies from shared technology platforms.



Offer a Leaner Supply Option for Company and Customers

Demand-Side Resources

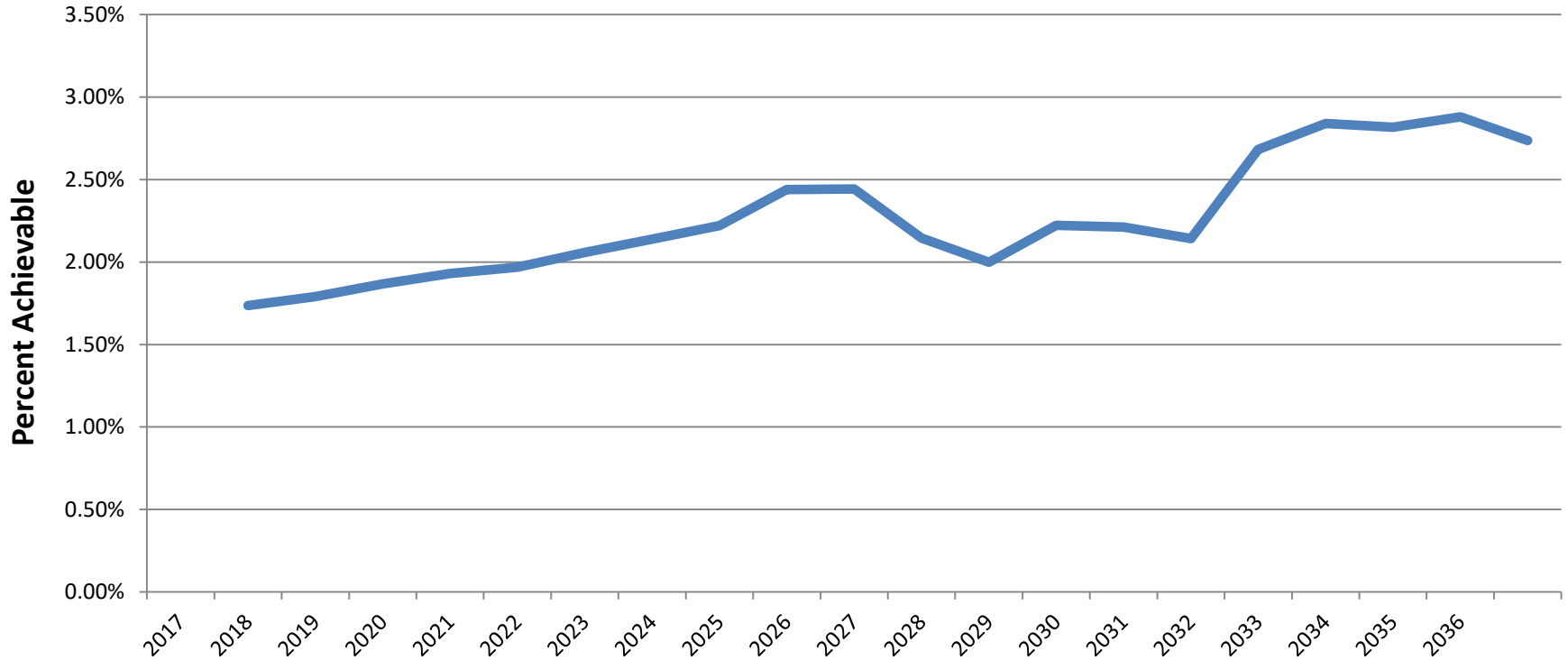
DSM Projected MW Reductions from 2018 Levels



~2700MW Load Reduction by 2040, avoids large supply build

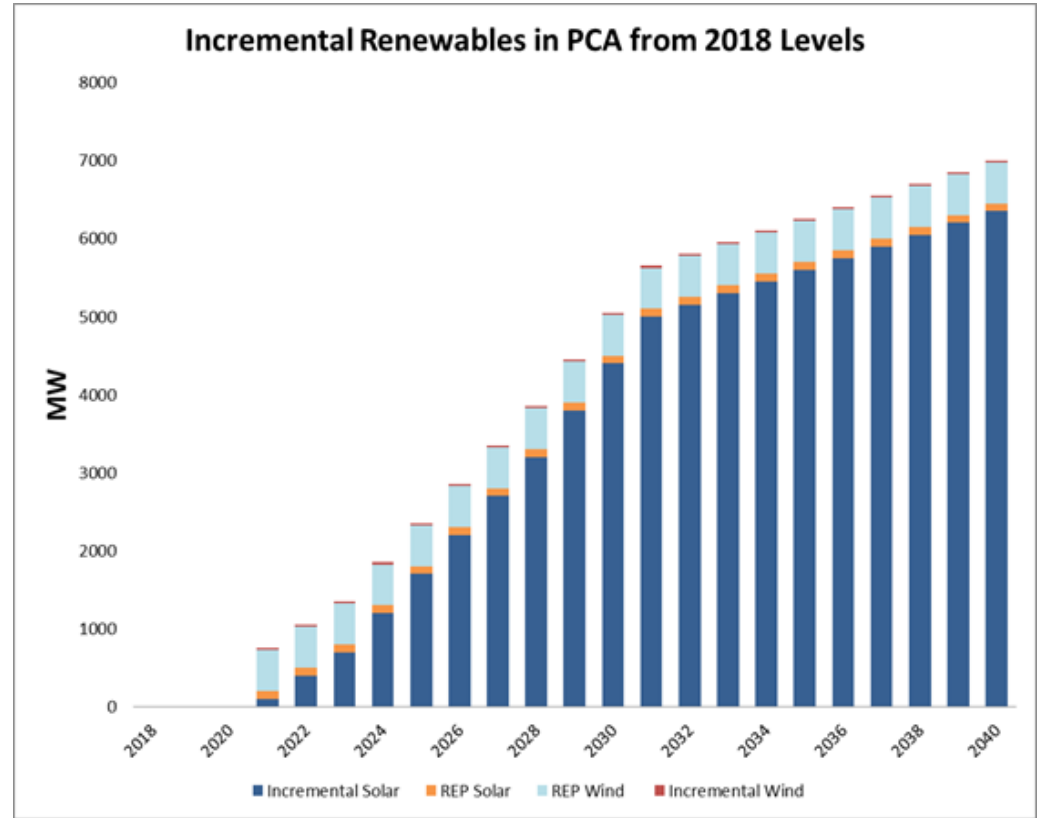
Energy Efficiency Potential

Incremental EE Savings

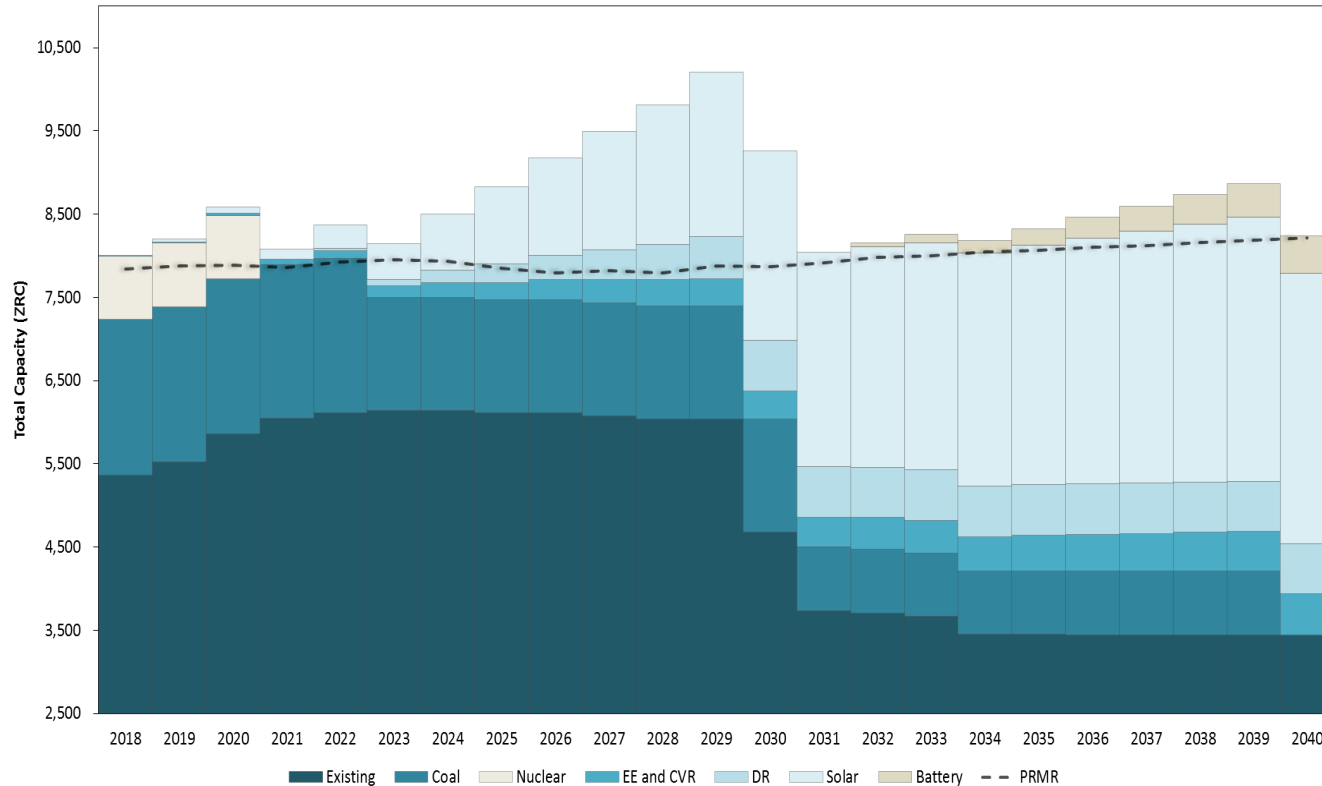


Proposed Solar Growth

- Incremental and modular type growth of solar in the mid-2020s helps ensure system reliability and affordability as these new resources added to the electric system.



Incremental and Modular Plan



- Growth is Incremental and modular
- Planning Ahead to offset future capacity needs
- Ensures reliability and affordability because resources are incremental and modular

Cleaner Energy Future

- Transition to Zero Coal by 2040
- Leveraging grid modernization and virtual “power plants” to create a leaner supply
- Solar additions that can be implemented in increments and a modular fashion

