

# Power with Purpose

Continuing Our Journey

## Challenges

- Changing generation landscape
- Supporting the needs of our growing communities
- Maintaining reliability and resiliency

## Framework

- OPPD's Mission: Affordable, reliable and environmentally sensitive energy services
- Strategic Directives
- Legal and regulatory obligations

## Solution

- Large, utility-scale solar (400-600 megawatts) with natural gas backup
- Modernized natural gas assets; replacement for North Omaha Units 1-3 retirements and Units 4 and 5 refueled from coal to natural gas
- Voltage support devices
- Following the Requests for Proposal (RFP), the modeling will finalize the conclusions

## Benefits

Ensures OPPD is able to meet the needs of our customer-owners while maintaining affordability, reliability and resiliency.

Carbon dioxide (CO<sub>2</sub>) emissions are expected to be reduced by 80-90% over current North Omaha Unit emissions.

In total, over our journey from 2010-2024, we estimate a 30% reduction in CO<sub>2</sub> emissions.

OPPD expects to maintain no general rate increase from these solutions.

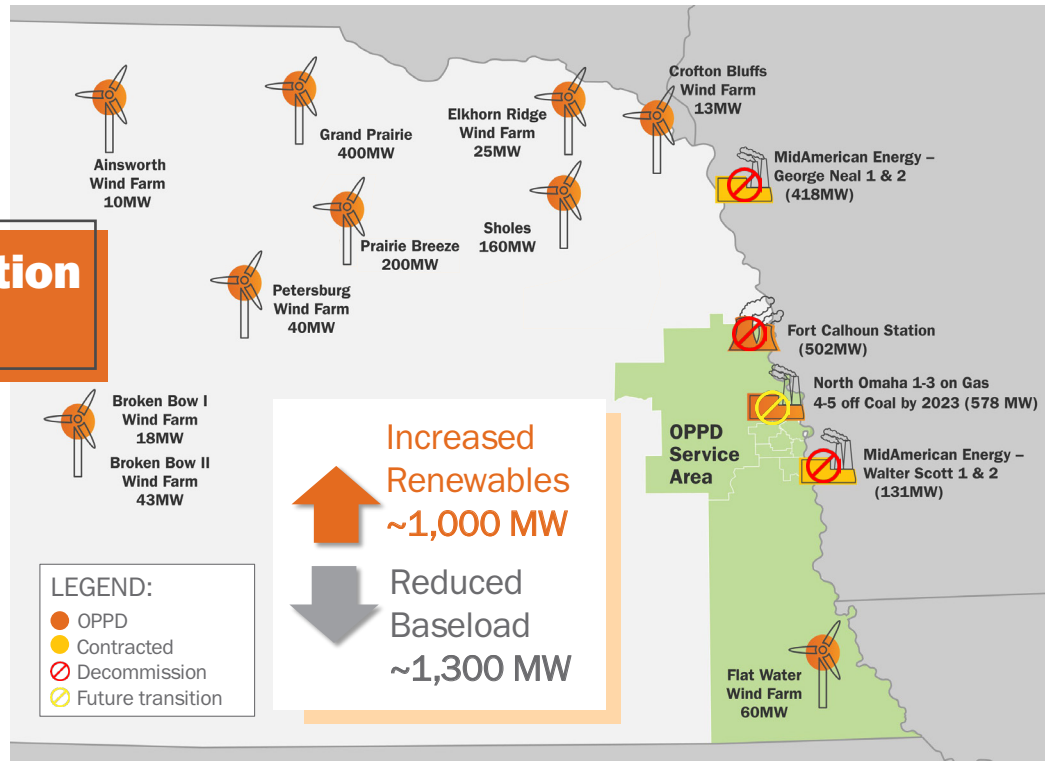
**Prior to releasing RFPs, OPPD is accepting public comment on the proposed next steps on [OPPDListens.com](https://www.oppdlistens.com) through Friday, Nov. 8.**



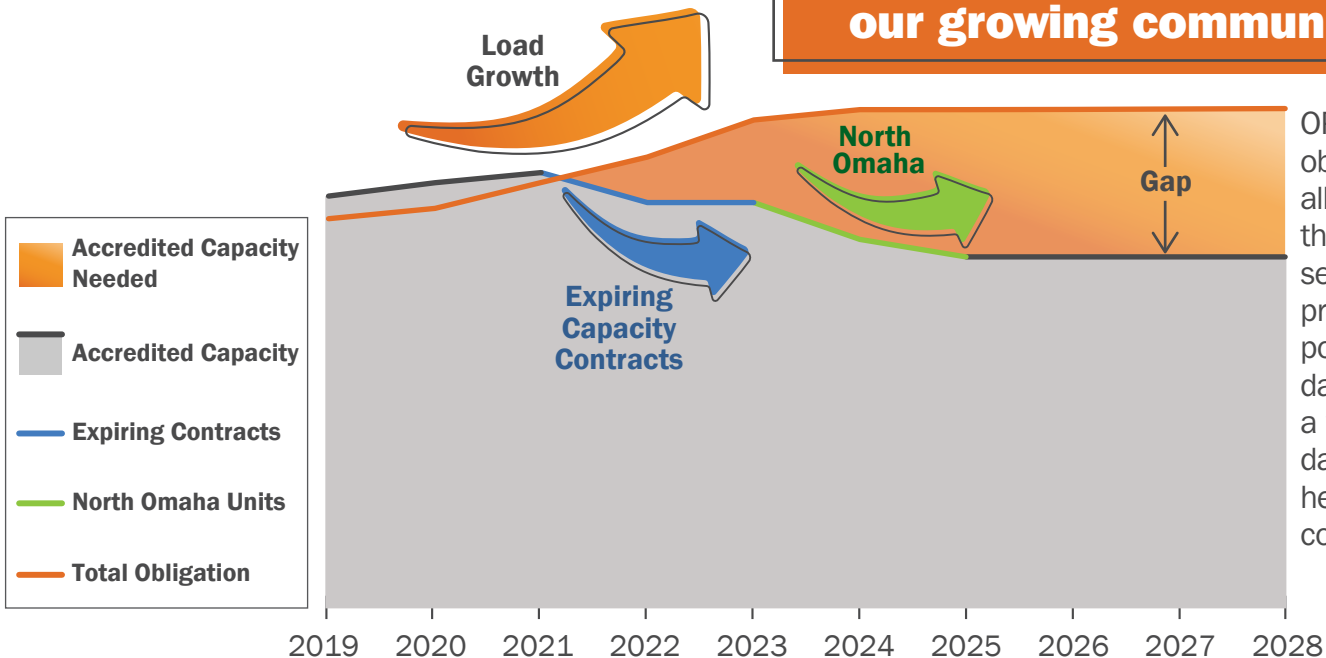
# We've been working

## 1. Changing generation landscape

OPPD is importing more renewable power into our service area than ever before, while at the same time, OPPD and surrounding utilities are reducing baseload generation. These changes impact the regional grid and how OPPD plans for the future.

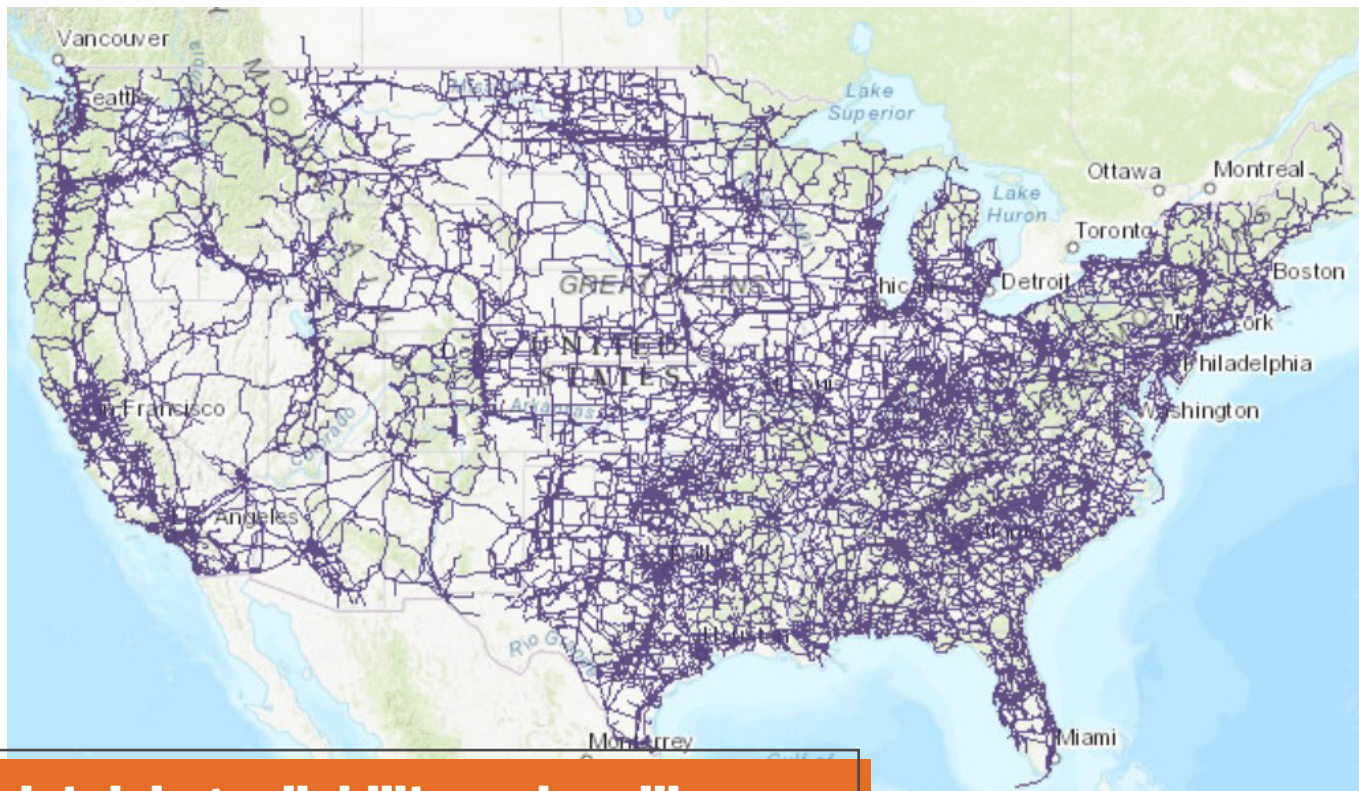


## 2. Supporting the needs of our growing communities



OPPD has an obligation to serve all customers throughout our service area, providing reliable power 24 hours a day, seven days a week, 365 days a year to help strengthen communities.

# to solve for:

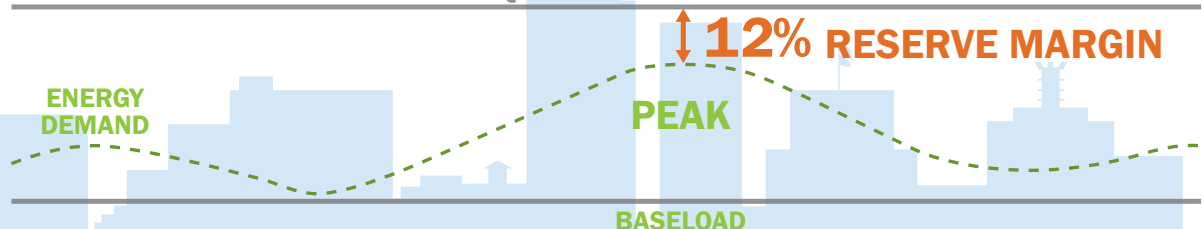


## 3. Maintaining reliability and resiliency

OPPD delivers **reliable** electricity through an interconnected transmission network with power generated by dynamic energy systems. The utility enhances the **resiliency** of its assets through smart planning and design that enable systems to bounce back from potentially unexpected long-term disruptions.



### SOUTHWEST POWER POOL (SPP) ACCREDITED CAPACITY REQUIREMENT



# Our next steps

## October 9 – November 8

- Communicate with employees
- Inform and educate stakeholders to ensure understanding
- Receive public comment via [OPPDListens.com](https://www.oppdlistens.com) and educational presentations

## November 14

- Request board approval to negotiate and award contracts

## Fall 2019/Winter 2020

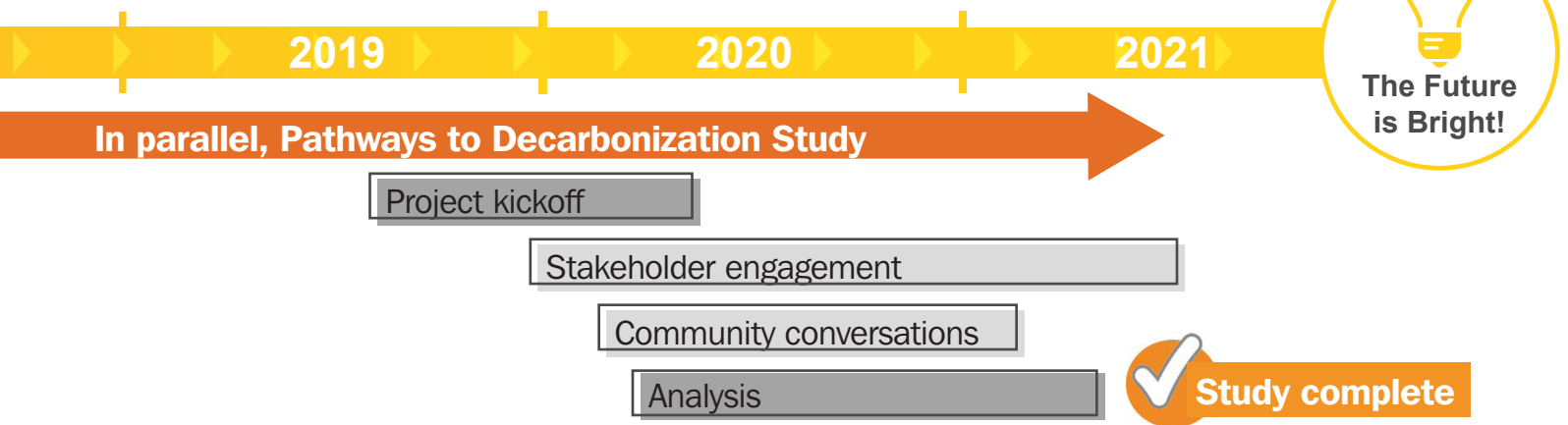
- If approved, begin Requests for Proposal (RFP) & Request for Information (RFI) processes

## Spring/Summer 2020

- RFP process and analysis
- Board updates

## 2020 – 2023

- Construction



# Frequently asked questions

## Why must OPPD act now?

OPPD's recommendation to issue RFPs for new utility-scale solar and backup natural gas assets is to meet the projected near-term capacity and resiliency needs.

## How does adding a new natural gas facility impact OPPD's progress towards reducing carbon intensity and the Pathway to Decarbonization study?

Natural gas assets will play an important role in our Pathway to Decarbonization. The proposed asset is not considered baseload, meaning OPPD will operate the facility as needed for capacity. The flexibility it provides will enable OPPD to further integrate renewable energy into our portfolio, while maintaining reliability and resiliency.

## How would the addition of new utility-scale solar and natural gas facilities impact OPPD's carbon intensity?

OPPD's preliminary estimate is that the proposed project would achieve a 30% reduction in carbon dioxide (CO<sub>2</sub>) emissions from 2010 levels. New assets will create 80-90% less CO<sub>2</sub> emissions than

assets being replaced. OPPD will continue to refine projected impact on carbon intensity based on responses to the RFP.

## I heard solar energy is expensive. Has it become more affordable?

OPPD continually evaluates the technical feasibility and cost-effectiveness of power technologies, including solar. The average cost per kilowatt of energy produced from solar panels has decreased significantly in the past few years. Utility-scale solar energy is now projected to be cost-competitive.

## How would the new natural gas assets be different from those already in OPPD's fleet?

The new natural gas facilities would produce energy much faster than North Omaha 1-3, and thus would produce less emissions during startup. Additionally, newer units can increase power generation faster to stabilize the transmission system quicker, in order to adjust to the variable output of wind, solar generation and other market conditions at the time.

**More FAQs at [OPPDListens.com](https://www.oppdlistens.com).**