



Power with Purpose Open Session October 2020 Update

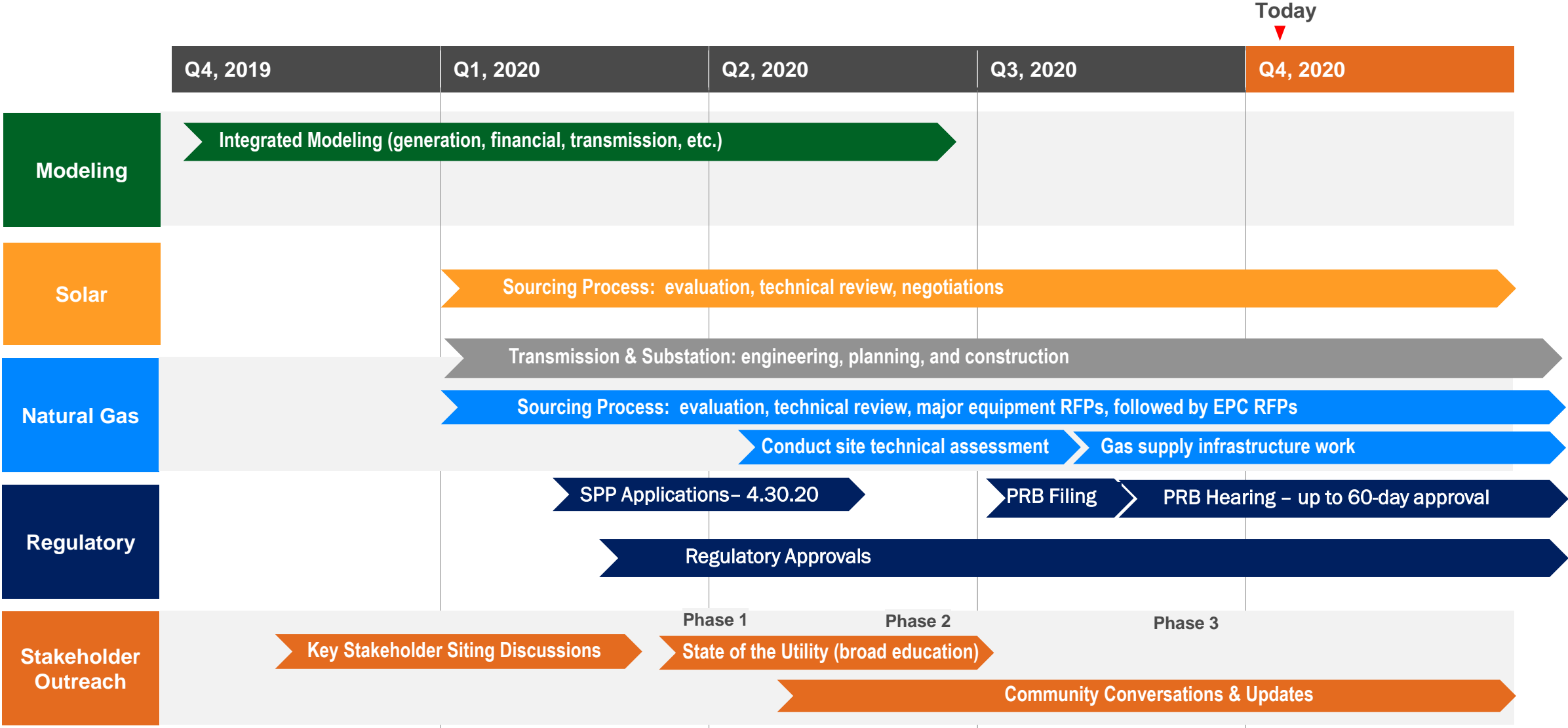
October 13, 2020



Agenda

- Power with Purpose - Where We Are
- Solar Generation Update
- Gas Generation Update
- Community Stakeholder Outreach Update

Power with Purpose – Where We Are



Solar Generation Update



Why is solar “lagging” behind in the PwP project?

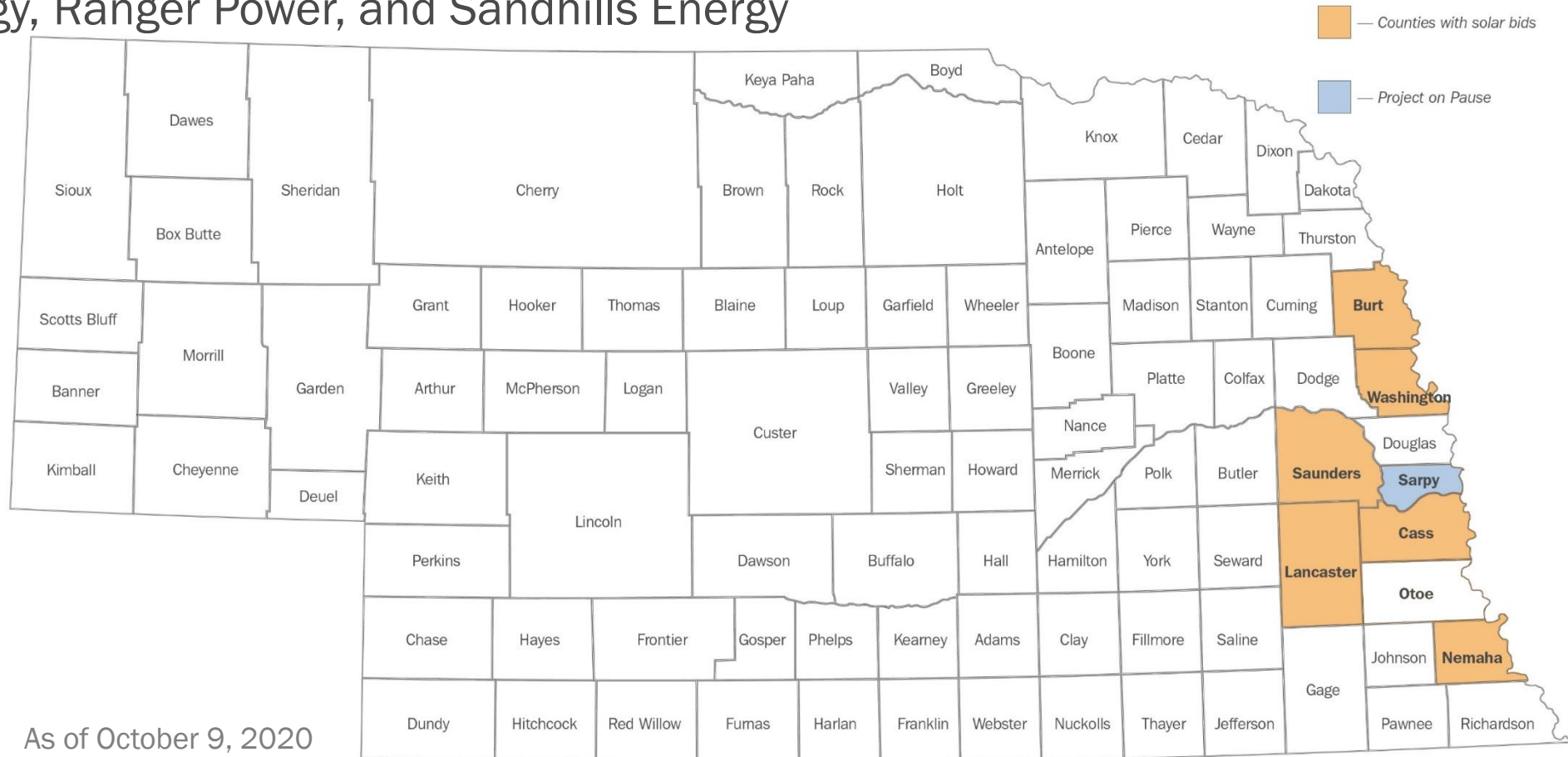
- Solar is actually ahead of gas, not lagging behind
- Solar projects are sited years in advance
- Renewable developers have site ready attributes developed:
 - Generator Interconnection Agreements (GIA) through Southwest Power Pool
 - Land leases
 - Local governmental meetings and applications
- Renewable developers respond to Request For Proposals (RFPs) with these site ready projects
- Once the Power Purchase Agreements (PPAs) contracts are signed, announcements will occur
- Gas projects have recently completed siting and are just beginning to issue RFPs to source equipment

Solar Sourcing Recap

- OPPD's intent is to meet the 400-600MW of accredited solar capacity and required in service dates per the board resolution
- First utility-scale solar sourcing for OPPD and Nebraska
 - Utility-scale solar is a new consideration for many counties in Nebraska
- Complex sourcing process to meet OPPD's unique Power with Purpose accreditation, and resiliency and reliability needs

Solar Sourcing Update

- RFP analysis of 71 proposals led to a narrowed focus of 7 projects in/near service territory
- Developers include: Bluestem Energy Solutions, Community Energy, Geronimo Energy, Invenergy, Ranger Power, and Sandhills Energy



What's Next?

- Continue technical, commercial, and contract analysis of projects
- Continue solar outreach and education
 - Updates to county leaders with projects (Washington, Cass, Burt, Saunders, and Nemaha)
 - Updates on OPPDCommunityConnect.com
 - OPPD employee and retiree updates living in the areas
- OPPD's goal is to share final projects by the end of 2020
 - Depends on timing of negotiations with developers

Natural Gas Generation Update



Natural Gas Generation Project Update

- Detailed site technical assessments in progress for both proposed locations (ALTA survey, geotechnical, noise measurements, environmental)
- Voluntarily submitted documentation to the City of Papillion planning department in support of their process for Sarpy County South site
- Nebraska Power Review Board
 - Applications submitted September 16
 - Hearing to occur October 19
- Fuel supply vendor meetings in progress

Natural Gas Generation Major Equipment Sourcing Progress

- Single RFP for Reciprocating Internal Combustion Engines (RICE)
- Single RFP for Simple-Cycle Combustion Turbines (CT)
- 9 vendors executed a Non-Disclosure Agreement (NDA) and received the applicable Request for Proposals (RFP)
- RICE Vendors submitted 40 questions in writing, which have been answered in three Letters of Clarification (LOC) and three Addendums

**Information as of October 7, 2020*

RICE Schedule Item	Milestone (Past/Future)
RICE RFP Issue Date	September 16, 2020 ✓
RICE Pre-bid Webex	September 23, 2020 ✓
RICE Proposal Due Date	October 21, 2020
RICE Negotiations Begin	Early November 2020
RICE Target Contract Award	Mid December 2020

CT Schedule Item	Milestone (Past/Future)
CT RFP Issue Date	October 7, 2020 ✓
CT Pre-bid Webex	October 14, 2020
CT Proposal Due Date	November 4, 2020
CT Negotiations Begin	Mid November 2020
CT Target Contract Award	January 2021

Stakeholder Outreach



Outreach Approach

Phase I

Broad Community Listening & Education
District-wide State of Utility (moved online)

Phase II

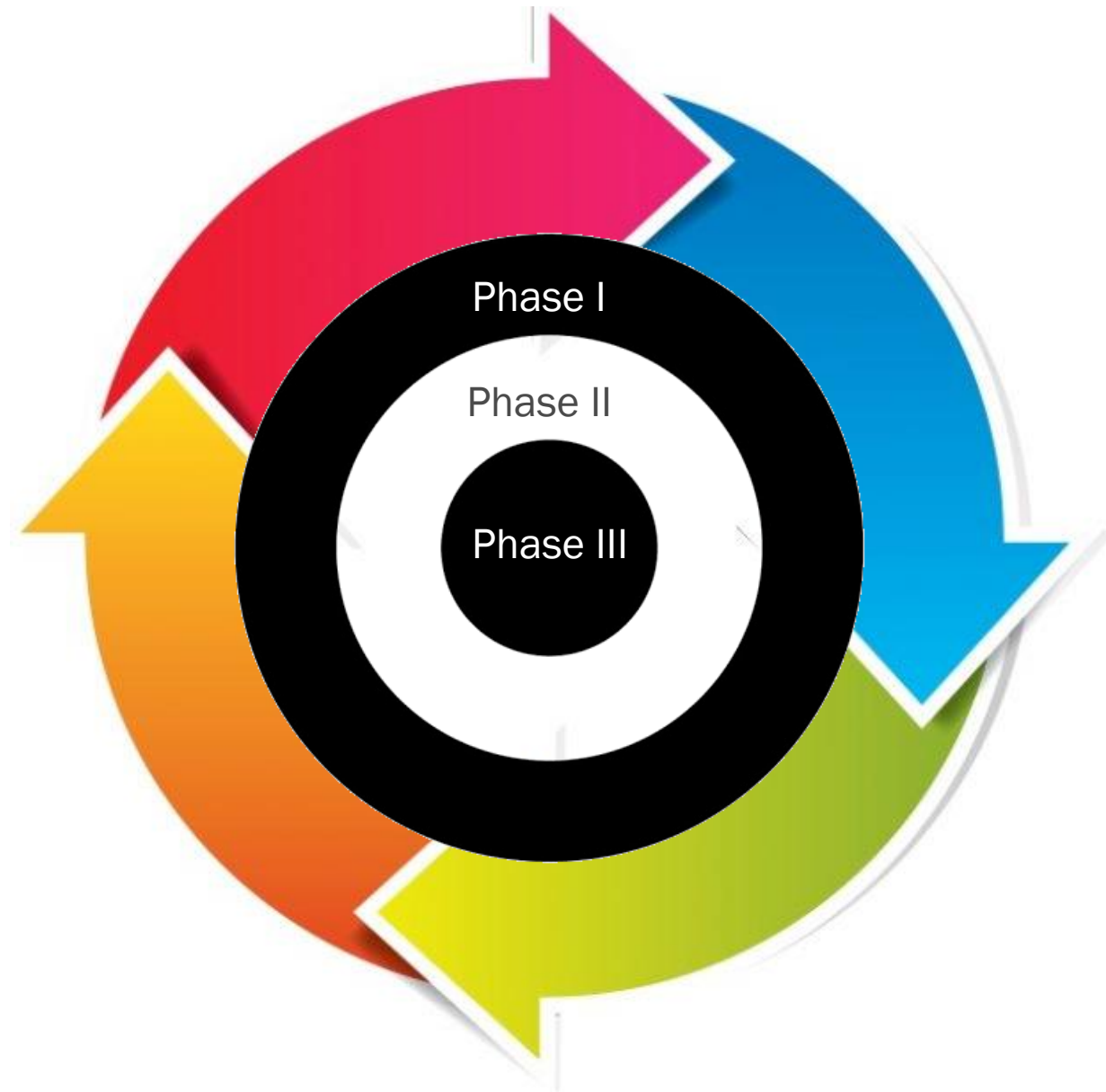
Conversations and Updates with Potentially
Impacted Areas as Modeling Continues

Phase III

Engagement with Directly Impacted (landowners)
& Interested (community leaders)

Ongoing

Outreach and Communication to Close the Loop



1:1 Meetings and Speaking Engagements

2019 - Present

- Meetings with elected officials and community leaders
- Nebraska Wind & Solar
- Omaha by Design
- Engineers Club of Omaha
- Nebraskans for Solar
- Green Bellevue
- Green Omaha Coalition
- Sierra Club / Beyond Coal
- West Omaha Chamber
- Ashland Rotary Club
- Kiwanis Club of Greater Omaha
- Nebraska Society of Professional Engineers
- Earth Day (virtual Tim Burke interview)



Power with Purpose

October-November 2019

- Employee, Retiree & Stakeholder Meetings
- OPPD Listens (now OPPD Community Connect)
- Social Media Posts
- Educational Workshops
- Outlets
- Outreach to Top 500 Commercial & Industrial Customers
- Media presence - OPPDtheWire, KFAB, KETV, WOWT, KPTM APPA and more

Your Energy Partner
OPPD
Omaha Public Power District

Power with Purpose

Continuing Our Journey

Challenges	+	Framework	=	Solution
<ul style="list-style-type: none"> • Changing generation landscape • Supporting the needs of our growing communities • Maintaining reliability and resiliency 		<ul style="list-style-type: none"> • OPPD's Mission: Affordable, Reliable and Environmentally Sensitive • Strategic Directives • Legal and Regulatory Obligations 		<ul style="list-style-type: none"> • Large, utility scale solar (hundreds of megawatts) with natural gas backup • Modernized natural gas assets; replacement for North Omaha Units 1-3 retirements and Units 4 and 5 refuel to natural gas • Voltage support device(s) • Request for Proposal (RFP) results will finalize the modeling conclusions

Benefits

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

CO₂ 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 20% reduction in CO₂ emissions

Prior to publishing RFPs, OPPD

State of the Utility

April-May 2020

- Adapted due to the pandemic
- Committed to engaging customers, while being empathetic
- Moved from in-person meetings to putting all information online, with opportunities for customers to provide feedback
 - Customers can offer comments, ask questions and rank satisfaction on a variety of topics
- Promoted State of the Utility in:
 - April and May board press release
 - 8 print ads in Nemaha, Blair, Arlington, Ashland, Wahoo, Bellevue, Gretna, Papillion and Ralston; online ads in Omaha World-Herald
 - 385,000 impressions with May *Outlets* article
 - Employee OPPD News story
 - OPPD The Wire story
 - 500+ emails to hundreds of OPPD business customers and organizations
 - Virtual interviews and presentations (Earth Day, Ashland Rotary, etc.)

State of the Utility

Continuing our Journey: 2020 Look Ahead

For over 70 years, OPPD has been where the light starts. We serve more than 846,000 people in 13 counties, making OPPD the 12th largest public power utility in the U.S. While honoring our heritage in public power, we have embraced changes in the energy sector, such as expansion of renewable technologies and a global focus on carbon reduction. **We're proud of our journey and how far we've come, while never losing sight of OPPD's unwavering mission to provide affordable, reliable, and environmentally sensitive energy services to customers.**



There's a lot to look forward to in 2020, including:

1 Our people are invested in the communities we serve.

OPPD employees are active members of the communities we serve. In 2019 alone, employees volunteered thousands of hours.



2 We are planning ahead for potential flooding in 2020 to ensure resiliency.

We're taking important lessons learned from the flooding that occurred in March 2019 and making strategic investments to proactively minimize flood risk in the future.



3 We are making smart investments to safeguard energy system reliability.

Through efforts like tree trimming, LED street lighting, cable upgrades, and transmission and distribution improvements, our employees are committed to keeping the lights on.

4 We are grateful to have received \$1.2 million in grants to pilot a 1MW battery storage project...

OPPD's BRIGHT (Battery Research Innovation Guided by High-Potential Technologies) project, funded by the Nebraska Environmental Trust, will provide innovative research benefiting all Nebraskans. This pilot will test how battery storage will integrate on OPPD's grid and provide insight on how to scale for future applications.

5 ...AND to install 10 total electric charging stations at five sites.

Electric vehicles, coupled with OPPD's continued effort to increase renewable energy use, provides compounding carbon emissions reduction.



Powering through the Pandemic Campaign

May–August 2020

- Employee spotlight series
 - Included Facilities, Customer Care, Supply Chain, Enterprise Risk Management, Safety, etc.
- Print, social media, television and radio campaigns
- OPPDtheWire
 - Ongoing features highlighting our work
 - Customer First Solutions and CARES funding
 - Safety at home amid pandemic
 - Including safety with pools and other outdoor recreation since everyone was staying home
 - Plant employees
 - Overall COVID response (biz as usual)
 - Carter Lake Wi-Fi partnership
 - ECC work continues amid COVID



OPPDCommunityConnect.com

July 2020



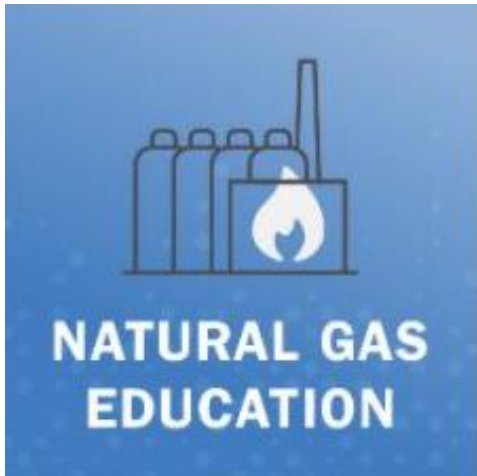
Current Conversations



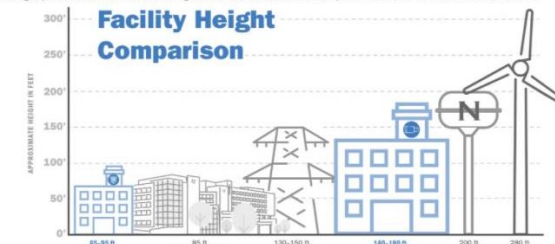
Solar + Natural Gas Backup

Power with Purpose, OPPD's utility-scale solar project, including natural gas backup, is the largest renewable investment of this type in the region.

[Read more](#)



This graphic shows the relative height of those facilities as compared to other well-known structures.



Virtual Meetings

September 2020

- Online Community Meetings, Sept. 29 & 30
- Promoted broadly via multi-channel digital campaign, including social media and radio
- Included geo-targeted social media, as well as direct mail, postcards, emails to community leaders and outreach to HOAs
- **Papillion meeting:** 52 attendees, Q&A more technical in nature
- **Military meeting:** 79 attendees, Q&A themes around sound, aesthetics, wildlife, property values and safety
- Meeting recordings posted on OPPDCommunityConnect.com

SOLAR + NATURAL GAS BACKUP = POWER WITH PURPOSE

OPPD's mission is to provide affordable, reliable and environmentally sensitive energy services to customers. We also have a goal of net-zero carbon production by 2050.

Working toward that goal, OPPD is moving forward with large-scale solar generation and natural gas backup and **plans to site a natural gas facility near the southeast corner of North 120th Street and Military Road.**


As part of our public power promise and continued stakeholder outreach, OPPD is committed to engaging our customers in these types of decisions, and we pledge to listen to your thoughts, ideas and questions.

Online Community Meeting...
We'll be hosting a meeting for our neighbors near the North 120th Street and Military Road facility on:

Wednesday, Sept. 30, at 6 p.m.
Learn more and access the meeting link at www.OPPDCommunityConnect.com or by scanning the QR code with your smartphone.

If you do not have internet access and would like to access the community meeting by phone, call 1-844-621-3956 toll-free. When prompted, enter this access code: 133 527 7723.

Let's talk! We'd love to hear what matters most to you!



SCAN ME

OPPD
Omaha Public Power District

444 S. 16th St. Mall
Omaha, NE 68102-2247

POSTAGE
INDICIA

JOHN Q CUSTOMER
1234 APPLE LANE
OMAHA NE 00000-0000

Note: Also held virtual meeting for MUD leadership with recording to be shared with MUD employees

What we heard

- "How loud will this be when it's running?" "Will it run all the time?"
- "What's this going to look like from my backyard?"
- "Should I be concerned with emissions from this plant?"
- "How will this affect my property value?"
- "Are you going to tear down trees and negatively impact the wildlife in the area?"
- "How will construction on this site disrupt traffic around my neighborhood?"
- "How is this going to impact my OPPD rates?"



Papillion (Sarpy County South) Site, Future Rendering

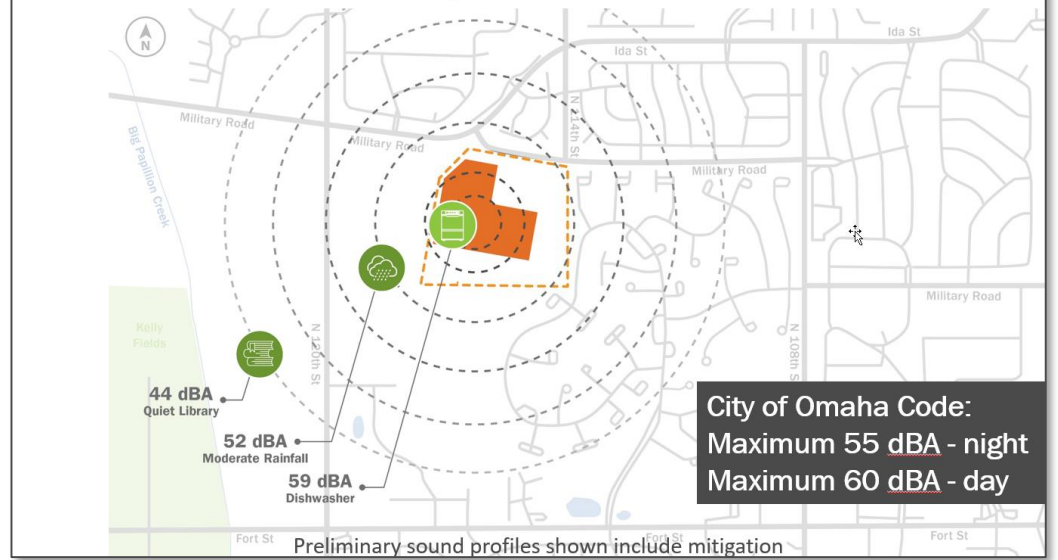


Sarpy County Station



Elk City Landfill RICE

N 120th & Military Rd. - Site



Cass County Station

Various Ways to Engage and Stay Informed

- OPPDCommunityConnect.com
 - Project updates, ask questions, take polls/surveys, post ideas
- OPPDtheWire.com
- Outlet's newsletter
 - Monthly updates right to your home (or email)
- OPPD social media channels
 - Facebook, Twitter, LinkedIn, NextDoor (coming soon!)
- Contact your OPPD board member or community leader/elected official
- Community meetings
 - OPPD organized events
 - Home Owner Association meetings
 - Speakers Bureau (per your request)



Next Steps

October into 2021...

- Power Review Board Hearing (post process)
- Working on additional renderings (varying perspectives) and possible drone footage
 - Lesson learned from online meetings: customers having a hard time visualizing sites
- Continued 1:1 meetings with elected officials and community leaders
- Continued outreach to Home Owners Associations
- Planning late October in-person events coordinated with MUD at N 120th and Military Rd. for directly adjacent neighbors
- RambleRidge Annual HOA meeting, November 9



Views from backyard fence and of proposed Military facility site

Next Steps

October into 2021...

- Direct mail to original recipients of online meetings
 - Provide specifics for those who did not attend meetings and remind them that meeting recordings and FAQs at OPPDCommunityConnect.com
- Papillion (Sarpy County South) Transmission, Routing, Siting and Public Involvement Process
- 2021 meetings around design and construction
- Solar locations, announcement, education and outreach

Frequent updates at
OPPDCommunityConnect.com

NATURAL GAS SITE
 Facing northwest from Rasmberidge Road, an artist's rendering depicts the natural gas generation site located near North 120th Street & Military Road. This location would include RICE technology and supporting structures for generation, along with a substation for transmission.

Existing project site

Next Steps

- Ongoing 2020**
Modeling and analysis, and community conversations with stakeholders continues.
- Oct. 2020**
Power Review Board hearing
- 2021**
Contracts and partnership finalized
Grading starts (Spring)
Construction in progress 2021-2023
- 2023**
Construction complete and energized

120th & Military Site

The natural gas plant at North 120th Street & Military Road would include six to nine reciprocating engines for generation, along with a substation for transmission.

Why was this location chosen for a natural gas site?
 This will be the smallest natural gas facility in OPPD's generation fleet. This site was chosen based on its close proximity to natural gas and transmission infrastructure. It is also uniquely positioned between Omaha and Bennington, an area that has experienced expansive population growth and development. This site also allows OPPD to easily connect the facility to the rest of OPPD's assets. Locating the facility near critical electric infrastructure, transmission lines on the south side of the Metropolitan Utilities District (M.U.D.) property and the west side of 120th Street, allows it to be cost effective and will help support system reliability.

The actual facility will be situated closer to 114th Street and Military Road. This location was chosen to minimize impacts to nearby homes and to take advantage of the natural sloping of the terrain, which lends itself to natural sound abatement and provides a measure of visual screening. Some trees will need to be removed, though options

RICE Technology – Reciprocating engine (RICE) technology utilizes internal combustion engines, similar to a car engine. RICE facilities are typically smaller than combustion turbine generation facilities. OPPD currently uses small-scale RICE at our Elk City Station.

How will construction and the eventual facility impact wildlife and trees in the area?
 OPPD is accustomed to having wildlife in close proximity to power generation and transmission infrastructure. At a minimum, OPPD will restore any surrounding areas disturbed by site construction and actively seek opportunities to enhance and improve natural habitat and encourage pollinators. OPPD maintains an aviation protection plan and program that includes third-party review. The aviation protection plan mitigates detrimental effects on migratory birds, maintain regulatory compliance, while providing customers reliable energy services. OPPD has a proven track record of supporting wildlife and natural habitat.

How will OPPD keep stakeholders engaged throughout the rest of the process?
 While locations for natural gas generation facilities have been determined, final site and facility design is not yet complete. We are accepting public input related to the facility as design gets underway. OPPD will continue to take feedback as the project moves forward through OPPDCommunityConnect.com, mailings and community meetings and other stakeholder outreach efforts.

How loud will it be when it's running?
 This will be a peaking facility and is estimated to be in operation 5-15% of the time. Noise generated during operation will meet City of Omaha requirements and is not anticipated to be disruptive. Sound mitigation efforts will be part of coming planning and design efforts.

CITY OF OMAHA CODE:
 Maximum 65 dBA from 9 pm to 7 am
 Maximum 60 dBA from 7 am to 9 pm

Facility Sound Comparison

NOISE LEVEL IN DECIBELS (dB)

Sound Source	Approximate Noise Level (dB)
Reading/Leaves	20
Whisper	30
Quiet Library	40
Moderate Rainfall	50
Dishwasher/Normal Conversation	60
Traffic	70
Alarm Clock	80
Blender/Hair Dryer	90
Convent/Event	100
Jet Planes	110
Fireworks	140

Other Note: All dB are unweighted peak-to-peak and exceed permitted hearing loss.

www.soundenergy.com/soundings

Join the Conversation
 Learn more, access public meeting recordings for updates as this project continues:
www.OPPDCommunityConnect.com

OPPD
 Omaha Public Power District