



EPRI

ELECTRIC POWER
RESEARCH INSTITUTE

THE
**POWER OF
PEOPLE**

EPRI Membership Dues 2024- 2026

NPPD Board of Directors Meeting
October 2023

Dave Oshlo, Director of Projects & Capital Planning



Nebraska Public Power District

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Existing EPRI Agreement

- 2023 is the last year of a three-year, 100% buy Agreement
- NPPD has been an EPRI member since 1991
- NPPD has access to all EPRI Programming. This includes past, present, and future research
- NPPD also participates in supplemental projects
- Some current projects include:
 - Power-in-Pollinators
 - Physical Security
 - Energy Storage Performance & Reliability Foresight
 - High Altitude Electromagnetic Pulse Substation Hardening

Testimonials

Energy Production – Art Wiese, VP Energy Production

- Energy Production has benefitted significantly from our EPRI membership. We have used EPRI's research to assist with failure analysis, training in Ops and Maintenance, developing reliability-based maintenance plans, optimizing water treatment and boiler chemistry, troubleshooting electrical/control issues, responding to environmental regulations, and improving our knowledge in winter resilience
- We also benefit by being able to reach out to peers in our industry due to our participation in many of the EPRI programs
- The research EPRI does has been very valuable to NPPD and I fully support our continued membership in this organization

Testimonials

Telecommunications– Matt Holthe, Telecommunications Manager

- Our big takeaway from the EPRI 6GHz testing is the interference testing and the results we have access to.
- We are also engaged with EPRI testing in private Long-Term Evolution (LTE) space in case we need to go down that road for leased Remote Terminal Units (RTUs)
- Future plans include having the Telecommunications Operations Center (TOC) evaluate the EPRI Network Monitoring Guidebook to determine value and implement on our network if appropriate

Testimonials

Generation Strategy – Alan Dostal

- The U.S. (and the world for that matter) is going through an energy transition (like it or not). With our EPRI membership, we have a seat at the table for this historic change. Having this seat, and all the utility access that comes with it, is priceless. There are many hard decisions that need to be made during this transition. Making those decisions with insights from EPRI are critically important
- Electric transportation. EPRI is the single best source of information on this topic. There is a lot of misinformation on the internet and in the news on electric vehicles. EPRI always has the correct information on this very important topic for NPPD and our industry

Technology Transfer

Conrad Saltzgaber, VP Corporate Strategy & Innovation

- NPPD sought to obtain informed opinions from its constituents, including retail customers and wholesale power distributors, on its proposed new carbon reduction goal
- EPRI designed a survey instrument to elicit feedback that was analyzed and documented
- Developed objective and technically-credible informational materials to educate constituents
- EPRI presented information at five public events throughout the state of Nebraska and at NPPD's annual customer meeting
- EPRI's incorporation of best practices into the survey design helped elicit more meaningful responses from constituents regarding NPPD's next carbon reduction goal

Technology Transfer

Steve Zach, Energy Efficiency Supervisor

- Demonstrated that Demand Response using Variable Capacity Heat Pumps (VCHPs) is viable in all climate conditions, including extreme cold and part-load operation in humid climates
- VCHP field deployment provided valuable information, which was used to develop education and promotional materials for both homeowners and HVAC contractors
- Results provided a better understanding of the electric load profile, energy consumption, and DR benefits
- Evaluated the potential for new VCHP program offerings/refining existing incentive programs

Agreement Costs

Year	Nuclear	Non-Nuclear	Total
2024	\$826,475	\$1,344,937	\$2,171,412
2025	\$859,534	\$1,412,183	\$2,271,717
2026	\$893,915	\$1,482,793	\$2,376,708
3-Year Total	\$2,579,924	\$4,239,913	\$6,819,837

- Agreement escalates by 5% annually which is the same as the prior agreement
- Nuclear assumes a 4% annual escalation
- Proposed pricing for 2024 Nuclear Supplement is \$628,811. Nuclear Supplemental Funding is a separate Board approval item

Next Step

With Board concurrence, bring the agreement back for Board consideration at the November 2023 meeting



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Questions

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