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November 8, 2022

MEMORANDUM

TO: Council Members

FROM: Jennifer Light, Power Division Director

SUBJECT: Grant PUDs Activities on Small Modular Reactors

BACKGROUND:

Presenter: Kevin Nordt, Chief Resources Officer and CEO Emeritus

Summary: Grant PUD's recent Integrated Resource Plan (IRP) identifies a need for future capacity resources to meet potential future resource adequacy requirements (such as those required by the Western Resource Adequacy Program) and energy resources to meet the Clean Energy Transformation Act (CETA) compliance. Grant's IRP identified a proposed mix of new solar, solar plus battery storage, wind, and gas reciprocating internal combustion engines as the most cost-efficient means of meeting future needs. The IRP also recognize that there are alternative or complementary approaches to the portfolio that might best meet future needs. One of these alternative approaches is small modular nuclear reactors (SMR). Kevin will discuss these future needs, Grant's assessment of available technologies, and ultimately their selection of the X-energy Xe-100 as an option for future development.

Relevance: The Council's 2021 Power Plan recognized that there are several promising emerging generating resource technologies that might provide value for future resource needs, and it recommended that the region continue to work with developers and manufactures to research and explore these technologies. One of these technologies is SMR and staff

are tracking progress on development efforts to inform the mid-term assessment and future power plan development.

More Info: Grant PUD's 2022 Integrated Resource Plan:
<https://www.grantpud.org/templates/galaxy/images/images/Downloads/Publications/Exhibit A 2022 Integrated Resource Plan.pdf>