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September 5, 2018

MEMORANDUM

- TO: Council Members
- FROM: Ben Kujala
- SUBJECT: Summary of topics in Mid-Term Assessment for full Council

BACKGROUND:

- Presenter: Ben Kujala
- Summary: Staff has done in-depth presentations on topics related to the mid-term assessment for the power committee over the last few months. Topics included updated generating resource profiles, updates on the load forecast, as well as gas and electricity price forecasts, conservation, adequacy, and demand response.

Staff will present a high-level summary of these issues for the full Council and highlight the key findings in each area. This is in preparation for the Council's consideration of the draft mid-term assessment report at the October Council meeting.

Workplan: Power Division workplan, Section A6.1: "The power division will prepare a draft mid-term assessment of the Seventh Power Plan in coordination with the Power Committee for approval for release by the Council."

























Updated capital cost estimates for generating resources generally decreasing since Seventh Plan

Technology	Seventh Plan (\$2016)	Proposed Mid-term Update (\$2016)	Trend
CCCT Adv Wet Cooling	\$1,220	\$1,100 - \$1,300	Slight decrease
CCCT Adv Dry Cooling	\$1,369	\$1,200 - \$1,400	Slight decrease
Frame GT (East)	\$859	\$500 - \$650	Lecrease (30-40%)
Reciprocating Engine	\$1,382	\$1,250 - \$1,450	👄 No change
Wind	\$2,382	\$1,500 - \$1,700	Lecrease (30-40%)
Solar PV (low/avg)	\$1,791/ \$2,566	\$1,350 - \$1,500	Lecrease (25-60%)

- Increased competition for fewer plants has driven natural gas development costs down (single cycle)
- Wind and solar continued to decrease; Tariffs on steel, aluminum, and imported solar cells may marginally increase future costs

Northwest **Power** and Conservation Council







