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Northwest Power and Conservation Council

April 30, 2019

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MEMORANDUM

TO: Council Members

FROM: Shirley Lindstrom

SUBJECT: Update on Idaho Power Company participation in the Energy Imbalance Market and Other Items

BACKGROUND:

Presenter: Tess Park, VP Power Supply, Idaho Power Company

Summary: Idaho Power has been a member of the Western Energy Imbalance Market since April 2018. Tess Park will give an update on their participation and related successes for the year and will discuss the differences between what Idaho Power sees as benefits and the CAISO benefits calculations related to the EIM.

She will touch on Idaho Power's recent announcement of their goal to provide 100% clean energy by 2045

More Info: Info on EIM: <https://www.westerneim.com/pages/default.aspx>

News release on Clean by 2045 plan:
<https://www.idahopower.com/news/idaho-power-sets-goal-for-100-percent-clean-energy-by-2045/>

NWPPC



Tess Park
VP Power Supply



Our Clean-Energy Goal

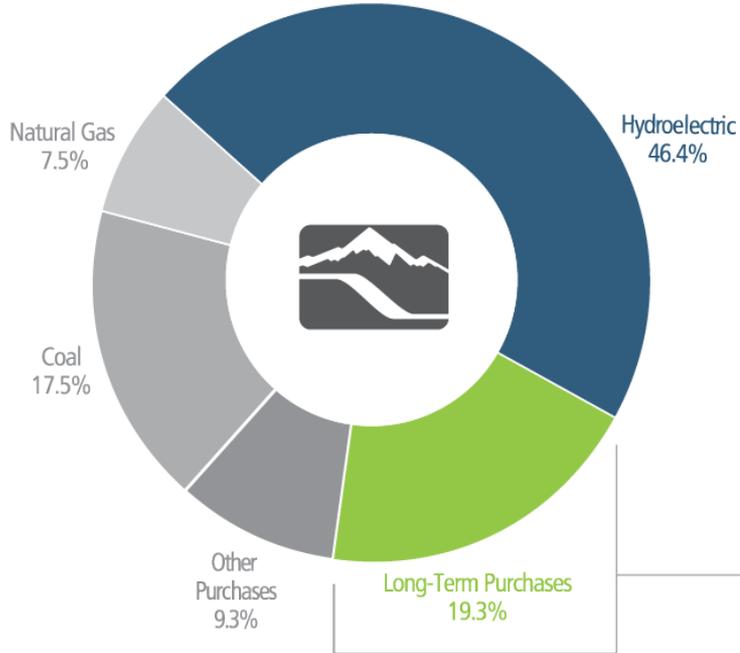
As Idaho Power continues serving customers and communities with **reliable, affordable** energy, we look to do so with a new and exciting goal:

Providing 100% clean energy by 2045

Clean Today. Cleaner Tomorrow.™

We're Well On Our Way

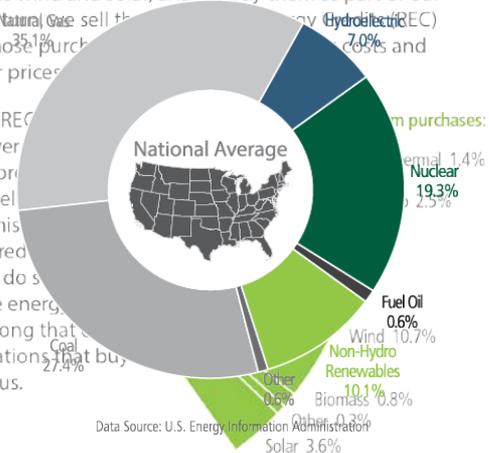
Energy Mix



About our Long-Term Purchases

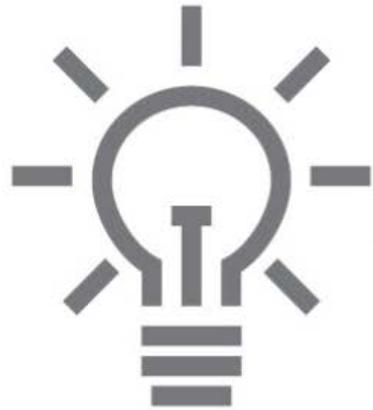
Idaho Power is committed to supporting renewable energy sources, such as wind and solar, and we buy them as part of our energy mix. In order to sell the energy (REC) we get from those purchases, we pass along the costs and keep customer prices

The buyer of a REC can claim that power is produced by this energy. Therefore, we represent that electricity produced by this energy is being delivered to our customers. We do sell these alternate energy sources, and we pass along that cost to the organizations that buy the RECs from us.



Data Source: U.S. Energy Information Administration

Clean and Reliable



WE KEEP THE LIGHTS ON

99.975%

OF THE TIME

Clean and Affordable



OUR PRICES ARE MORE THAN
20% BELOW
THE NATIONAL AVERAGE



Clean Today. Cleaner Tomorrow.

Today



Nearly 50 percent of our energy already comes from clean hydroelectricity.



Our carbon emissions intensity is 46 percent less than it was in 2005.



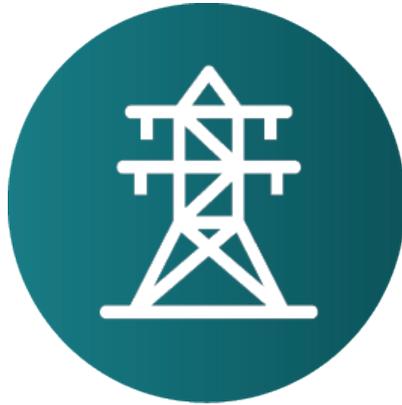
We recently reached a deal to buy 120 megawatts of low-priced solar power.

Clean Today. **Cleaner Tomorrow.**

Tomorrow



We are continuing our path away from coal.



The proposed Boardman to Hemingway transmission line should help move clean energy.



We carefully plan for the future and keep an eye on technology.

Clean Today. **Cleaner Tomorrow.**

Together



Join us! Idaho Power offers various options for managing your energy use.



Help us as we care for our rivers, fish and wildlife and the places we call home.



Learn more about business incentives and energy efficiency programs.

Clean Today. **Cleaner Tomorrow.**

cleantoday.com



Energy Imbalance Market



- EIM successful go live April 2018
- Successes include @ 10 Million in savings to Idaho Power customers. Benefits to other EIM participants have increased as well.
- Operators learning the value of our flexible hydro system

EDAM- Extended Day Ahead Market



- Idaho Power and other EIM participants looking at opportunities for how to extend the EIM market to day ahead
- CAISO will open a stakeholder process 2019
- Benefits to Day ahead market could include:
 - More economic unit commitments
 - Efficiencies on transition from Day ahead bilateral market to EIM that exist today.
- What EDAM is not!
 - Consolidation of Balancing Areas
 - Relinquishing transmission assets
- Next Steps- Benefit Analysis, Stakeholder Process, FERC filings

Questions

