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# Grid -Interactive Buildings

Opportunities in the State of Washington

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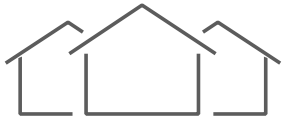
10/6/2021



Washington State  
Department of  
**Commerce**

# We strengthen communities

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**HOUSING  
HOMELESSNESS**



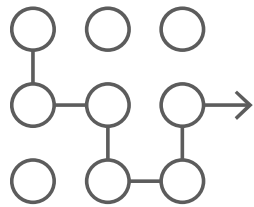
**INFRASTRUCTURE**



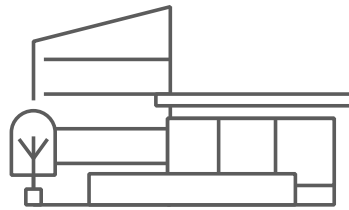
**BUSINESS  
ASSISTANCE**



**ENERGY**



**PLANNING**



**COMMUNITY FACILITIES**



**CRIME VICTIMS &  
PUBLIC SAFETY**



**COMMUNITY  
SERVICES**

# HB 1444 (2019): Grid-Interactive Water Heaters

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## Why did Washington choose to lead on this standard?

- Behavioral and technical data from pilot in PNW supported inclusion of design requirement into 2019 legislation (see: CEC docket 19-OIR-01)
- Technology supports electric grid of the future by enabling utility programs to manage water heating loads
- Supports flexible grid as we add more renewables toward our state 100% clean energy standard (Clean Energy Transformation Act)
- Commerce supports modular, open standards that are both good for consumers and allow for innovation

# Journey to Grid-Interactive Buildings

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## Stand Alone Storage and Grid Modernization

- What does the grid actually need?
- How do we cite and right-size storage?
- Renewable energy assets and buildings as assets



## Inside the Building

- Grid Interactive water heaters
- New opportunities for demand responsive appliances
- How do we incorporate the full value of flexibility?



## Grid-Interactive Buildings

# Looking Forward: GEB Opportunities in WA

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## GEB Pilots in Washington

### Spokane Catalyst Building

- Two buildings each with a pair of battery storage systems: a 500 KW / 1,500 KWh battery and a 167 KW / 337 KWh battery
- A rooftop solar array on the buildings provides 100 KW each
- Advanced energy management systems = Granular

## Future opportunities for GEB

- Clean Energy Funding for grid-interactive buildings projects
- PNNL Technical Assistance for GEB Pilots

# Thank you!

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