# Building Sector Decarbonization in WA

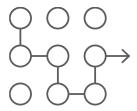


EMILY SALZBERG MAY 31, 2022

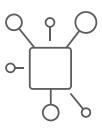
## We strengthen communities



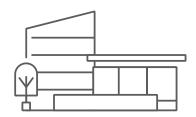
HOUSING HOMELESSNESS



**PLANNING** 



**INFRASTRUCTURE** 



**COMMUNITY FACILITIES** 



BUSINESS ASSISTANCE



CRIME VICTIMS & PUBLIC SAFETY



**ENERGY** 



COMMUNITY SERVICES

## 2021 WA State Energy Strategy

- Align strategy with clean electricity laws
  - Energy Independence Act (I-937, 2006)
  - Clean Energy Transformation Act (SB 5611, 2019)
    - After 2025, no coal in resource mix
    - By 2030, greenhouse neutral electricity supply
    - By 2045, 100% renewable or non-emitting sources
- Align strategy with greenhouse gas emissions limits (HB 2311, 2020)
  - By 2030, 45% below 1990 levels
  - By 2040, 75% below 1990 levels
  - By 2050, 95% below 1990 levels and achieve net-zero emissions.

2021 State Energy Strategy - Washington State Department of Commerce

## Decarbonizing the building sector



#### Previous legislative priorities:

- Energy codes
- Building performance standards
- Targeted electrification
- Clean heat planning
- Programs and incentives
- EQUITY as foundational

## Energy code context – WA state

- IECC with amendments
- 70% by 2031 over 2006 baseline RCW <u>19.27A.160</u>
- About 45% of the way there for residential
- Further to go for nonresidential
- Local authority, res vs non res
- Recent legislative actions



## WA State Energy Code

#### 2021 non-res updates

- Electric heat pumps and HPWH for most space and water heating, some exemptions
- Solar readiness for commercial
- Other efficiency improvements spanning from dehumidification efficiency of indoor growing facilities to building air leakage
- Effective July 2023

### 2021 residential development

- Proposal development underway
- Effective July 2023

## Clean buildings – Tier 1

- Performance standards for existing large buildings over 50k sf
  - Energy management
  - Operations and maintenance
  - Benchmarking
  - Targets
- Incentive program
- Mandatory compliance



## Clean buildings – Tier 2

- Buildings between 20-50k sf, including multifamily
- Not a performance standard until 2031
- Focus on benchmarking, energy and operations planning

#### **Clean Buildings Expansion Timeline**



## **Energy Efficient Appliances**

Appliance standards represent a cost-effective strategy to protect consumers and businesses and strengthen Washington's clean energy economy.

- New in 2022: Adopted and updated standards for EVSE, air purifiers, commercial ovens, and more
  - HB 1619 standards expected to save Washington over \$344 million (2020\$) in net present value savings.
- Water heater communications standard (CTA-2045) temporarily suspended for supply chain issues
- Currently standards for 18 products in state statute

## State supported incentives

- Clean Energy Fund, Building Electrification Program
- Clean Buildings Incentive
- Weatherization
- Community Energy Efficiency Program
- Energy Retrofits for Public Buildings
  - Energy Efficiency Grants
  - Solar Grants
  - State Project Improvement Grants

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