

Electrification of Transportation Systems (ETS)

AFV-TAG

Forrest Watkins

GRANT PROGRAM MANAGER, CLEAN ENERGY FUND

7/16/2021



Washington State
Department of
Commerce

Program Overview & Objectives

- ETS established for the “continued beneficial transformation of electric transportation markets in Washington State”
- Specifically, ETS funds Electric Vehicle Supply Equipment (EVSE) to **support distributed, accessible, and reliable** charging of battery EVs



Program Overview & Objectives

Commerce electrification policy
priorities:

- Local government fleet electrification,
- Multiple end-uses or users, and
- **Direct or indirect benefits to highly impacted and vulnerable communities.**



Community Engagement



Participated

- Environmental Justice
- Immigration Advocacy
- Mobility/Transit Advocacy
- Urban/local advocacy
- Land-use
- Traditional Environmental Groups

Missing

- Individual voices (particularly overburdened communities)
- Geographical diversity
- Community Action Partnerships Orgs
- Tribal Governments

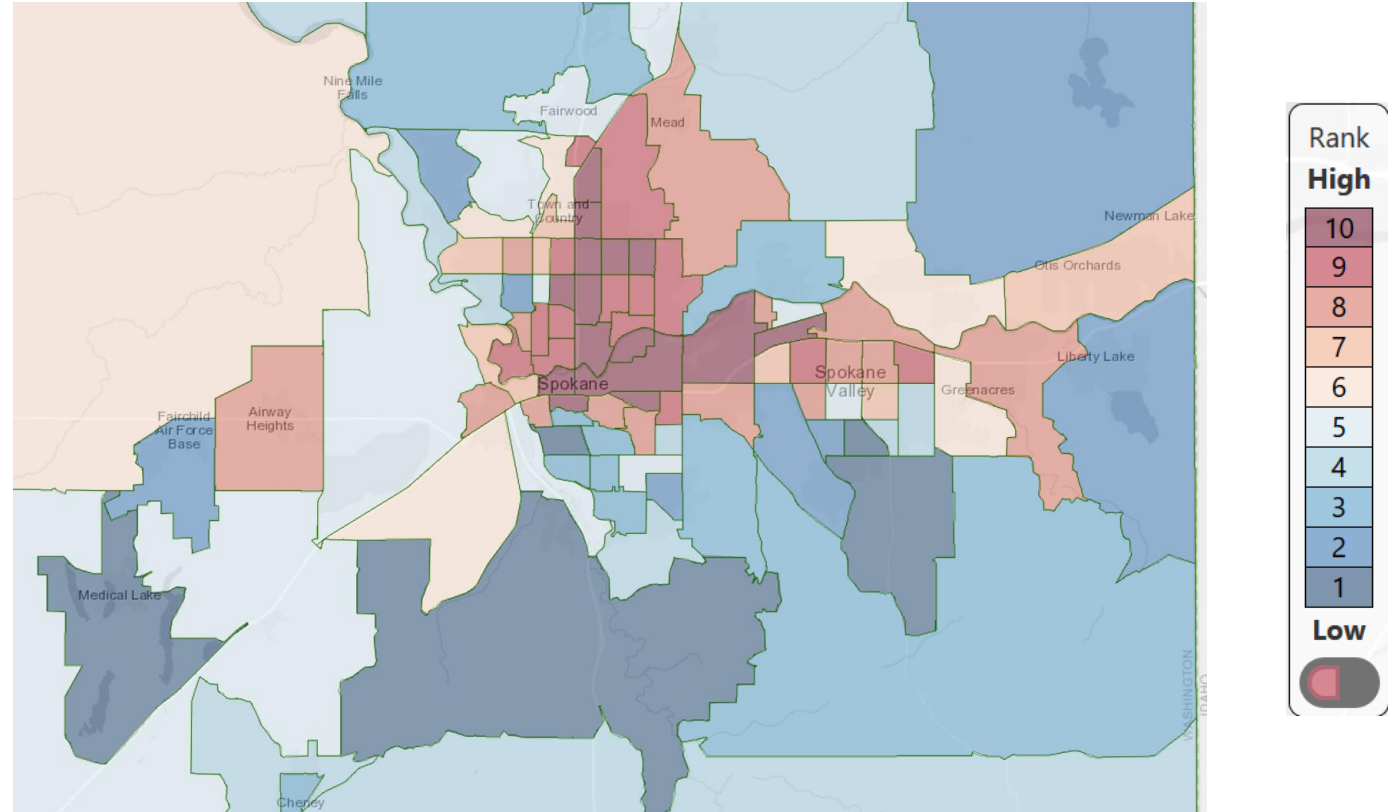
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Reduced Match Eligibility

- Applicants could receive reduced 1:5 or 1:10 match requirement
- Based on location of project site with respect to median income and WTN's Environmental Health Disparities

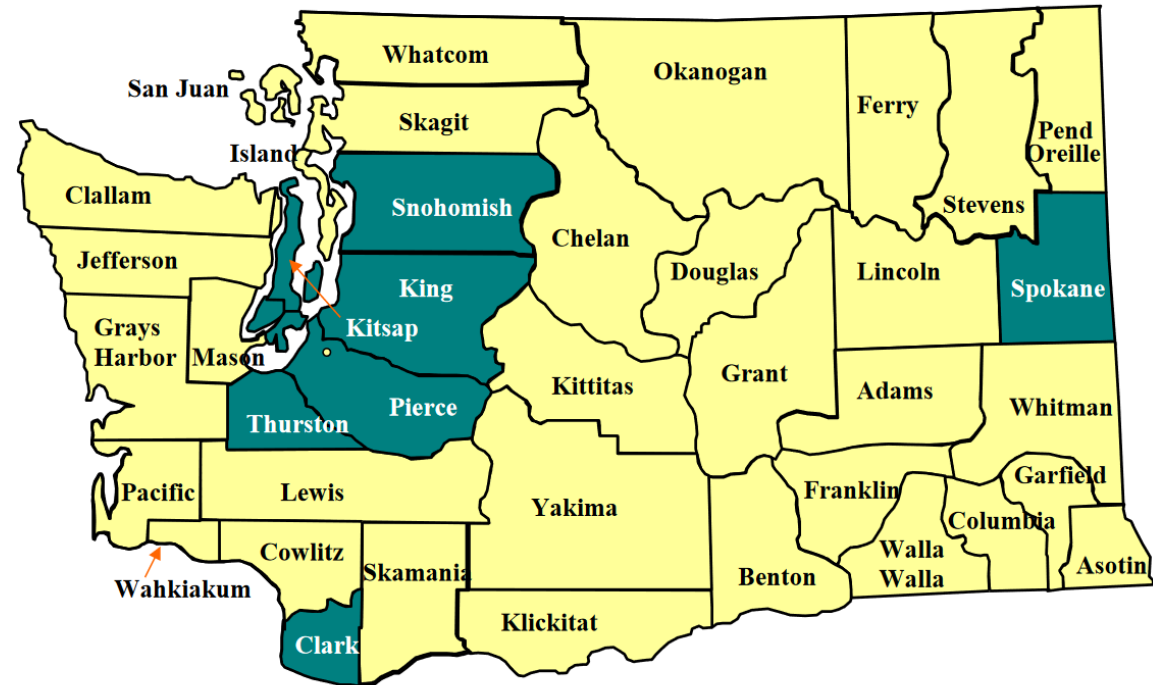
Scoring Criteria – Washington Tracking Network



- **Highly-Impacted and Vulnerable Communities (largest category of points available)**
 - Environmental Health Disparities
 - Environmental Exposures
 - Transportation Costs



Scoring Criteria – Other Tools and Data

- **Highly-Impacted and Vulnerable Communities (largest category of points available)**
 - Rural Status
 - EPA NATA Status
 - Median Income



 Non-Entitlement Counties	 Entitlement Counties	Entitlement cities located in non-entitlement counties, but not served by the state CDBG program:
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Scoring Criteria

- **Equity Narrative :**
 - Direct benefits to highly impacted and vulnerable communities;
 - Indirect benefits to highly impacted and vulnerable communities;
 - Meaningful efforts to engage highly impacted and vulnerable communities; and
 - Reflection of highly impacted and vulnerable community desire and need.

Results

- **Summary:**
 - 14 grants
 - Smallest = \$28,804
 - Largest = \$2.5m
 - Geographically diverse
 - Cities, Counties, Utilities and Port Authorities
 - <https://www.commerce.wa.gov/growing-the-economy/energy/clean-energy-fund/electrification-of-transportation/>

Results

- **Equity:**
 - Over 72% of initial pre-applications sought reduced match
 - Of the 14 contingent awardees:
 - 11/14 sought reduced match
 - 3 qualified for 1:10 match
 - 4 qualified for 1:5 match (area median income)
 - 4 qualified for 1:5 match (environmental health disparities metric)
 - Analysis pending on other health and societal indicators

Results

- **Select equity projects:**

- **Town of Cathlamet:** only DCFC in rural Wahkiakum County (\$104,410)
- **Energy Northwest:** Charging station network along White Pass Scenic Byway, including stations in Lewis and Yakima Counties (\$1.2m)
- **Port of Seattle:** DCFC at SeaTac for TNC charging (\$1.2m)
- **Puget Sound Energy:** Level 2 charger serving a shared EV at affordable housing site (\$77,762)
- **SnoPUD:** charging stations at newly-constructed affordable MFD and commercial building serving formerly homeless (\$135,582)

Learnings – Common Errors

- Incomplete application/does not meet minimum qualifications
- Insufficient or unclear commitments on equity
 - Direct/indirect benefits
 - Community outreach and co-creation
- Clear work and utilization planning

Learnings – Program Improvements

- **Simplicity is key to equity (so is nuance)**
 - Application platform
 - Technical requirements
 - Information request
- **Flexible requirements on equipment/site ownership are important to innovation, and limits need to be defined**

ETS II

- **Project priorities**
 - (A) Demonstrate meaningful and enduring benefits to communities and populations disproportionately burdened by air pollution, climate change, or lack of transportation investments;
 - (B) Beneficially integrate load using behavioral, software, hardware, or other demand-side management technologies, such as demand response, time-of-use rates, or behavioral programming;
 - (C) Accelerate the transportation electrification market in Washington using market transformation principles; or
 - (D) Develop electric vehicle charging and hydrogen fueling infrastructure along highways, freeways, and other heavily trafficked corridors across the state to support long-distance travel.



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Questions?

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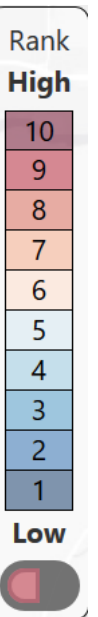
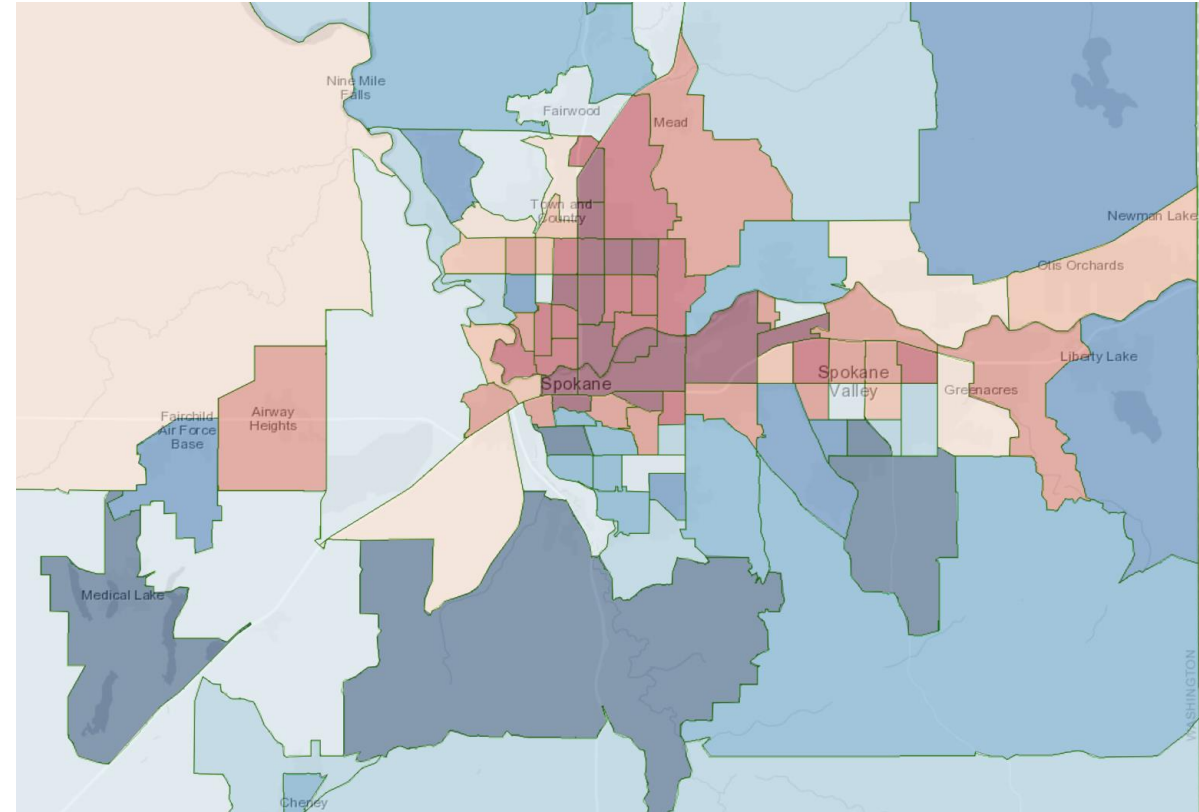
cef@commerce.wa.gov

360-522-3390

Washington Tracking Network

The screenshot shows the Washington Tracking Network interface. At the top, there are icons for a menu, layers, location, information, and help. Below these are several data layer options, each with a small bar chart icon to its right:

- Environmental Health Disparities V 1.1**
- Diesel Pollution and Disproportionate Impact
- Social Vulnerability to COVID-19
- Social Vulnerability to Hazards
- Lead Exposure Risk
- Health Disparities
- Planning for Health



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Reduced Match Eligibility Option 1:

All project sites are located in cities or towns, or in absence of city/town-level data, in counties, that have a Median Household Income below \$57,234 per year

The screenshot shows the Census Bureau's data table interface. The main table is titled 'INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)'. It provides a breakdown of household income distribution. The 'Median income (dollars)' is highlighted with a red box, showing a value of 56,921. Other key figures include a total of 1,899 households and a mean income of 69,674.

	Households		
	Estimate	Margin of Error	Estimate
▼ Total	1,899	+/-207	1,500
Less than \$10,000	5.5%	+/-4.8	5.0%
\$10,000 to \$14,999	1.8%	+/-1.5	4.2%
\$15,000 to \$24,999	11.1%	+/-5.8	8.6%
\$25,000 to \$34,999	9.8%	+/-5.7	6.6%
\$35,000 to \$49,999	12.5%	+/-6.3	8.2%
\$50,000 to \$74,999	22.9%	+/-8.8	26.3%
\$75,000 to \$99,999	17.6%	+/-6.9	18.2%
\$100,000 to \$149,999	16.5%	+/-7.3	20.2%
\$150,000 to \$199,999	0.5%	+/-0.9	0.6%
\$200,000 or more	1.8%	+/-2.2	2.2%
Median income (dollars)	56,921	+/-4,515	61,000
Mean income (dollars)	69,674	+/-9,069	75,600
▼ PERCENT ALLOCATED			

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Reduced Match Eligibility Option 2:

All project sites are located in census tracts that have a Washington Tracking Network's "Environmental Health Disparities V 1.1" rank of "8" or above

