

Session Time: Tues., April 16, 2024, 09:00am



Equity Advisory Group

Washington Clean Energy Future

Avista Clean Energy Implementation Plan (CEIP) Customer Benefit Indicators (CBIs)

April 2024

| <https://www.myavista.com/ceta>



Introductions & Agenda

Topic	Topic Owner
Welcome & Introductions	Amber Lenhart
Overview of the Meeting: Rules and Intent	Amber Lenhart
Partner Shares	Partners
CETA / CEIP Overview	Kelly Dengel
CBI (Customer Benefit Indicators)	Kim Boynton
Wrap-up	Dan Blazquez

Guest Introductions

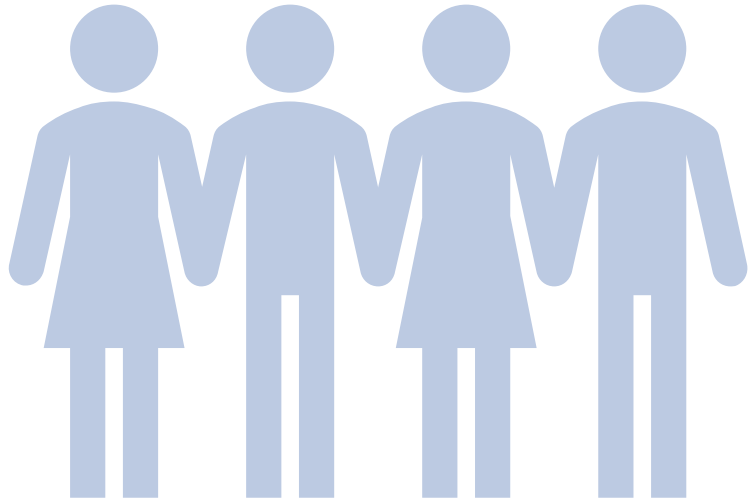
- Name
- Pronouns
- Organization or community



Today's Meeting

Equity Lens Session April 2024

Clean Energy Implementation Plan &
Customer Benefit Indicators



Rules for Engagement



- ❑ Encouraged to actively participate in discussions
- ❑ Each member will be provided time to speak
- ❑ Healthy and civil debate is encouraged
- ❑ Members should be open to new ideas and concepts
- ❑ Respectful of differing opinions
- ❑ Collectively, the group should strive to align varying options (e.g., identify shared goals for different perspectives)

Partner Shares

- ❑ Upcoming relevant community events or opportunities
- ❑ Pressing issues facing our community or a need someone might be able to address
- ❑ Challenges your organization is facing (especially around equity)





CETA / CEIP Overview

Kelly Dengel, Clean Energy Project Manager

Clean Energy Transformation Act (CETA)

- Washington State [Senate Bill 5116](#), passed by legislature in 2019
- All electric Washington utilities must reach 100% clean energy supply

2025 – Coal-Free Washington State

(All electric utilities must eliminate coal-fired generation serving Washington state customers.)

2030 – GHG-Neutral

(All electric utilities must be greenhouse gas neutral—for example, remaining carbon emissions are offset by renewable energy, energy efficiency, carbon reduction project investments, or payments funding low-income assistance.)

2045 – 100% Non-Emitting

(All electric utilities supply must be 100% renewable or be generated from zero carbon resources)



CETA / CEIP Requirements



**Clean Energy Transformation Act
(CETA) Law – May 2019**



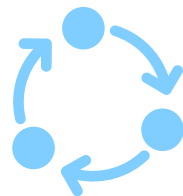
**Clean Energy Implementation
Plan (CEIP) – Every 4 Years**

Filed October 1, 2021, for 2022-2025 period



**Clean Energy Progress
Report – Annually**

Filed June 29, 2023, for 2022 period



**Biennial CEIP – Every Two Years,
Except where a CEIP is required**

Filed November 1, 2023

Clean Energy Implementation Plan

Clean Energy Implementation Plan (CEIP) 2022-2025

4-year plan establishing actions the utility will take to comply with CETA:

- **Interim & Specific Targets**
 - Clean energy
 - Energy efficiency
 - Demand response
- **Specific Actions**
 - Resource selection
 - Renewable resources
 - Energy efficiency
 - Demand response
 - Company specific actions –
Named Community Investment Fund
- **Public participation plan**
- **Customer Benefit Indicators/Metrics**

Customer Benefit Indicators



Affordability

Participation in Company Programs
Households with High Energy Burden
Residential Arrears & Disconnects



Energy Security & Resilience

Energy Availability
Energy Generation Location



Access to Clean Energy

Methods/Modes of Outreach & Communication
Transportation Electrification



Environmental

Outdoor Air Quality
Greenhouse Gas Emissions



Community Development

Named Community Clean Energy
Investments in Named Communities

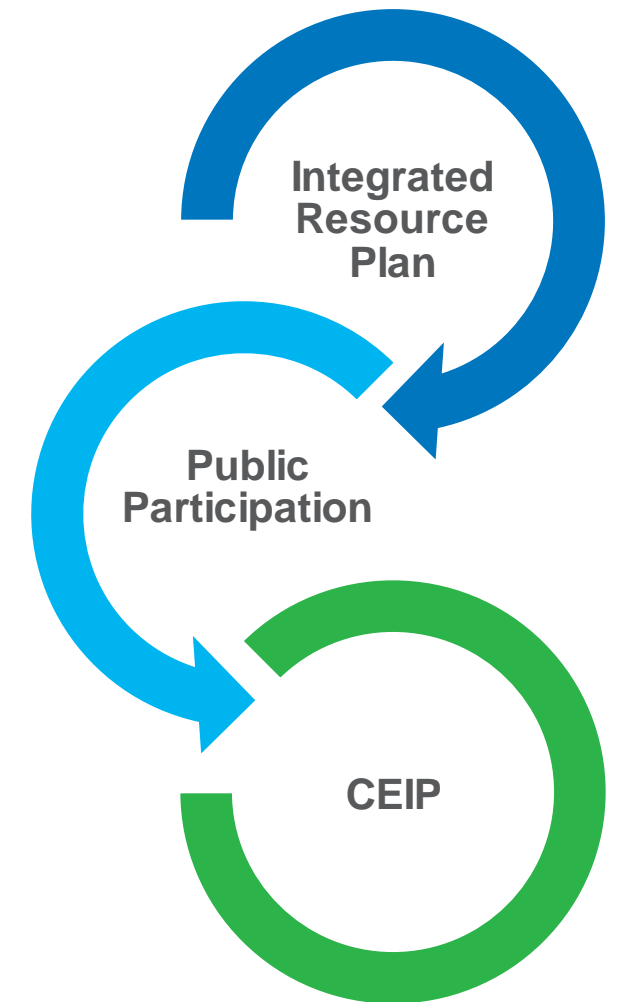


Public Health

Employee Diversity
Supplier Diversity
Indoor Air Quality

Looking to the Future . . .

- Informs **2025 Electric Resource Plan** – Due January 1, 2025
CBI metrics related to resource selection
- Informs the **2025-2029 CEIP** – Due November 1, 2025
CBI metrics overall



Avista CEIP Map

Legend

Avista CEIP Electric Service Area



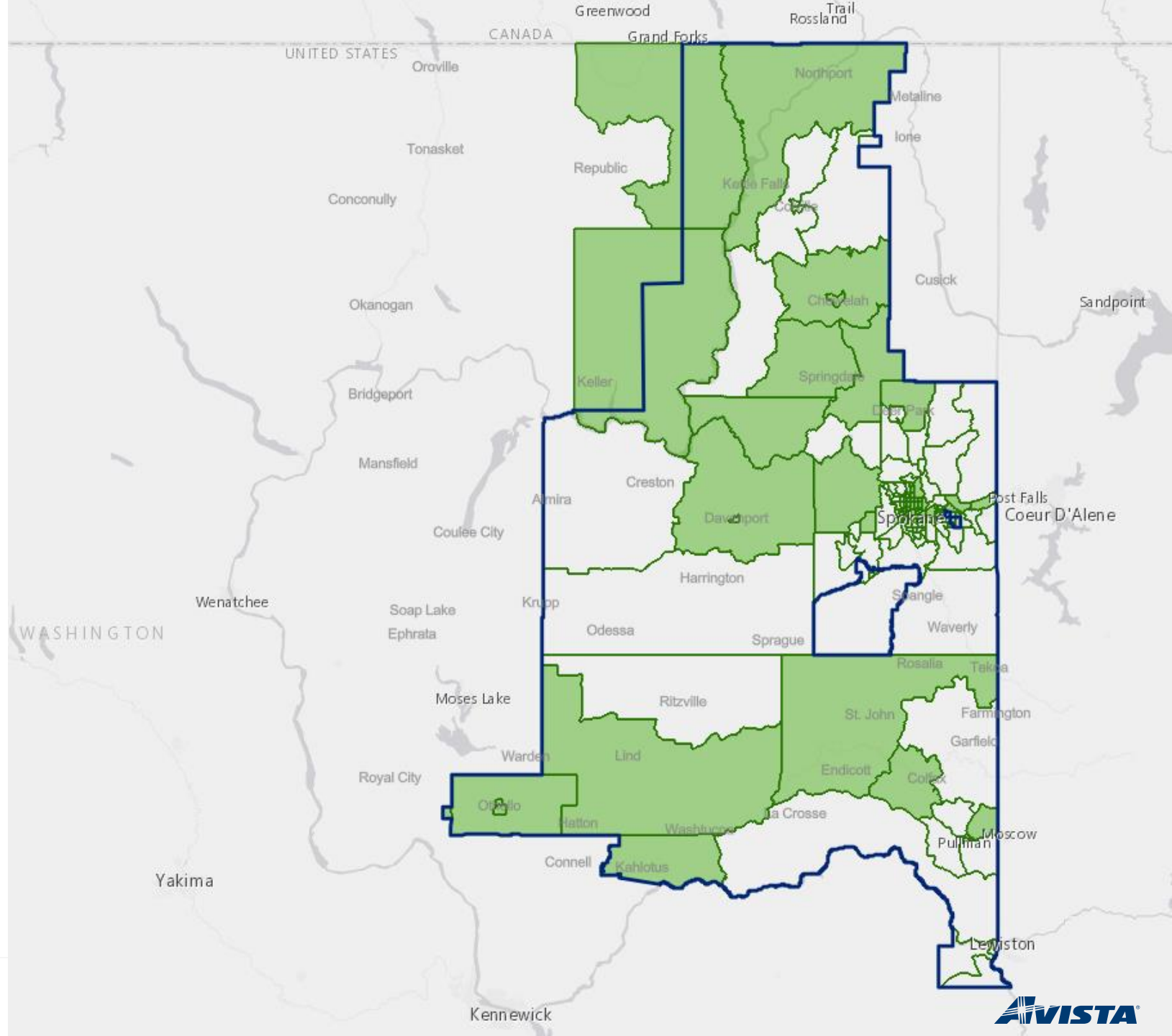
Towns



Highly Impacted or Vulnerable Population



Avista CEIP Census Tracts





CBI (Customer Benefit Indicators) Overview

Kim Boynton

Customer Benefit Indicators



Affordability

Participation in Company Programs
Households with High Energy Burden
Residential Arrears & Disconnects



Energy Security & Resilience

Energy Availability
Energy Generation Location



Access to Clean Energy

Methods/Modes of Outreach & Communication
Transportation Electrification



Environmental

Outdoor Air Quality
Greenhouse Gas Emissions



Community Development

Named Community Clean Energy
Investments in Named Communities



Public Health

Employee Diversity
Supplier Diversity
Indoor Air Quality

What are the Equity Benefit Areas, and what do they mean?

Highlight an equity benefit area below to learn more



Affordability

CBIs include Participation in company programs, calculation of energy burden, and metrics related to arrears and disconnects



Energy Security/Resiliency

CBIs include Metrics related to energy availability and energy generation location



Access to Clean Energy

CBIs include Metrics methods and modes of outreach and communication, transportation electrification, and clean energy resources for Named Communities



Environmental

CBIs include Metrics related to outdoor air quality and greenhouse gas emissions



Community Development

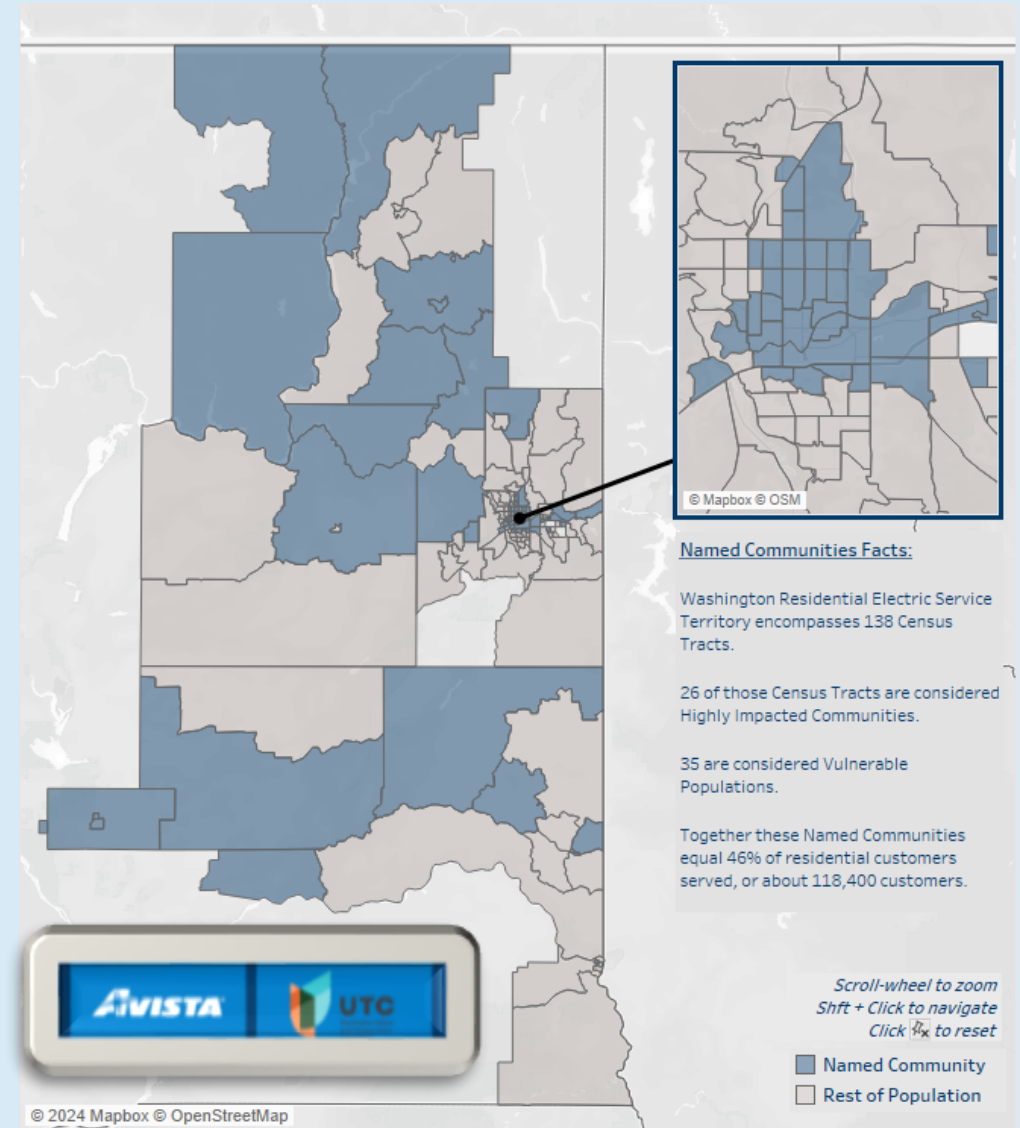
CBIs include Investments in Named Communities



Public Health

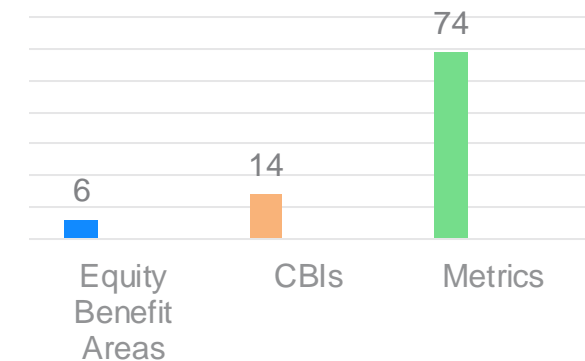
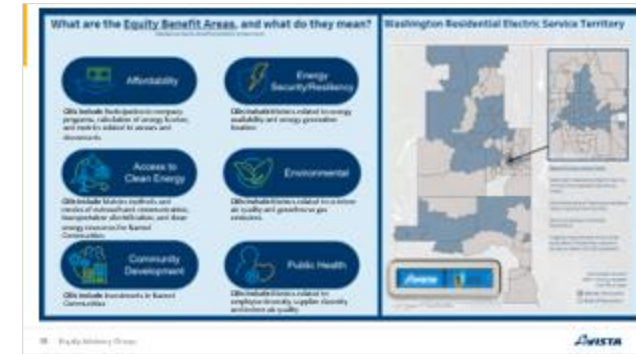
CBIs include Metrics related to employee diversity, supplier diversity and indoor air quality

Washington Residential Electric Service Territory

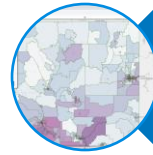
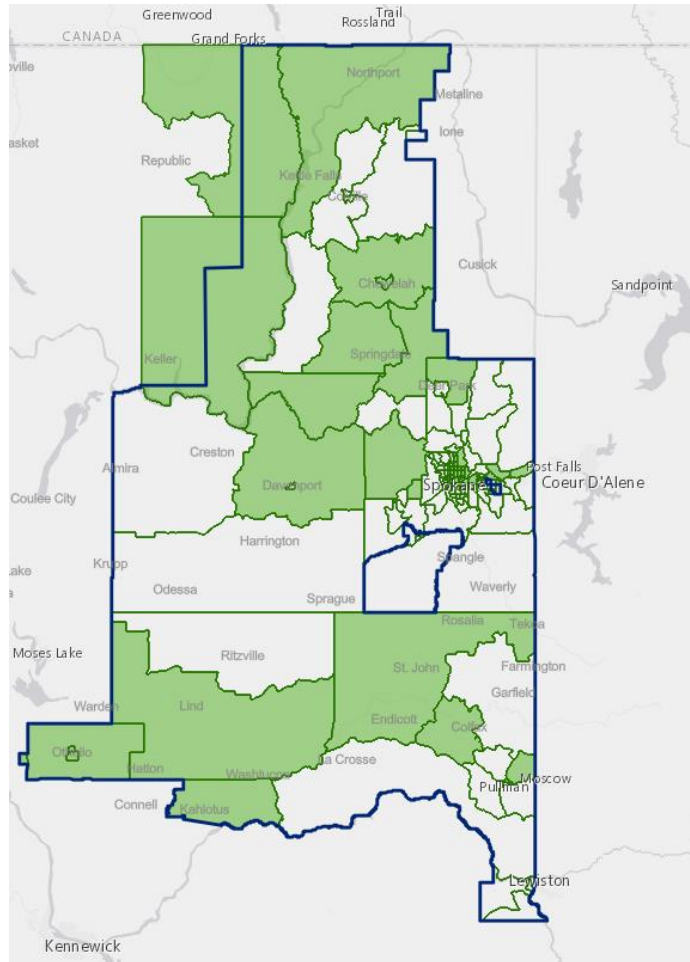


CBI Metrics: Relationship to CBIs

AFFORDABILITY	
CBI	CBI Metrics
(1) Participation in Company Programs	Participation in weatherization programs and energy assistance programs - ALL
	Participation in weatherization programs and energy assistance programs - Named Communities
	Saturation of energy assistance programs - ALL
	Saturation of energy assistance programs - Named Communities
	Residential appliance and equipment rebates provided to customers residing in Named Communities
	Residential appliance and equipment rebates provided to customers residing in rental units (Condition #17)
(2) Number of households with a High Energy Burden (>6%)	Number of households - All (Condition #18)
	Number of households - KLI (Condition #18)
	Number of households - Named Communities
	Percent of households - All
	Percent of households - KLI (Condition #18)
	Percent of households - Named Communities
	Average excess burden per household - ALL
	Average excess burden per household - KLI
Average excess burden per household - Named Communities	
(14) Residential Arrearages and Disconnections for Nonpayment	Number of residential electric disconnections for non-payment by month for Census Tracts(Condition #22)
	Number of residential electric disconnections for non-payment by month for KLI (Condition #22)
	Number of residential electric disconnections for non-payment by month for Vulnerable Populations (Condition #22)
	Number of residential electric disconnections for non-payment by month for Highly Impacted Communities(Condition #22)
	Number of residential electric disconnections for non-payment by month for All Customers (Condition #22)
	Percent of residential electric disconnections for non-payment by month for Census Tracts(Condition #22)
	Percent of residential electric disconnections for non-payment by month for KLI (Condition #22)
	Percent of residential electric disconnections for non-payment by month for Vulnerable Populations (Condition #22)
	Percent of residential electric disconnections for non-payment by month for Highly Impacted Communities(Condition #22)
	Percent of residential electric disconnections for non-payment by month for All Customers (Condition #22)
	Number of Residential arrearages by month for Census Tracts (Condition #22)
	Number of Residential arrearages by month for KLI (Condition #22)
	Number of Residential arrearages by month for Vulnerable Populations (Condition #22)
	Number of Residential arrearages by month for Highly Impacted Communities (Condition #22)
	Number of Residential arrearages by month for All Customers (Condition #22)
	Amount of past-due balances that are 30+, 60+, and 90+ days past due (Condition #22)
	Total amount of Arrearages (Condition #22)



Analytics approach

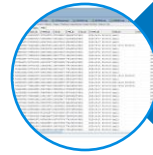


Align service territory data with DOH Health Disparities Map

- Highly Impacted Communities (HIC) - Prescriptive
- Vulnerable Populations (VP) – Methodology based



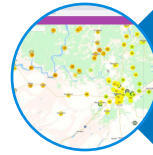
GIS Map created with layers for VP, HIC and Residential Electric Service Territory



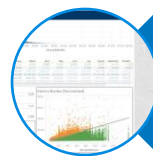
Curated Database created for Utility Activity based on Residential Electric Households



Obtain 3rd Party Demographic data for all Active Residential Customers

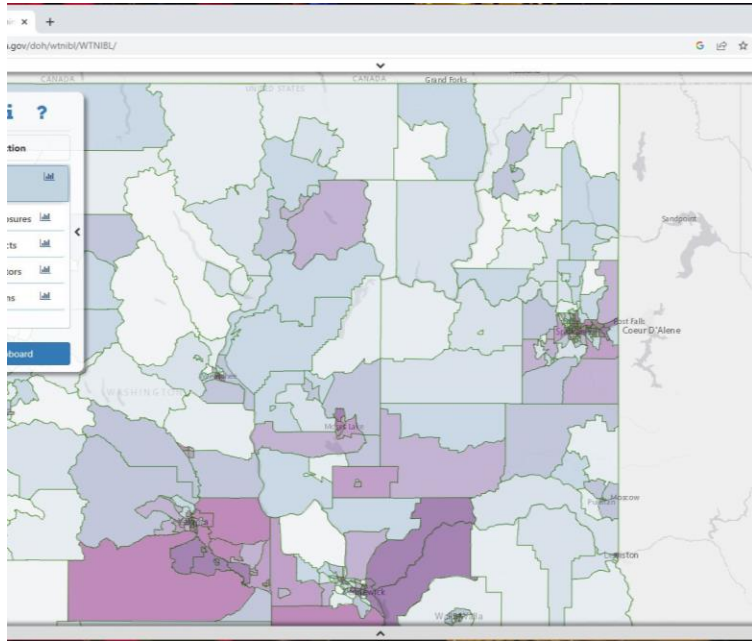


Identify datasets for remaining CBIs e.g., Air Quality, Supplier and Employee Diversity

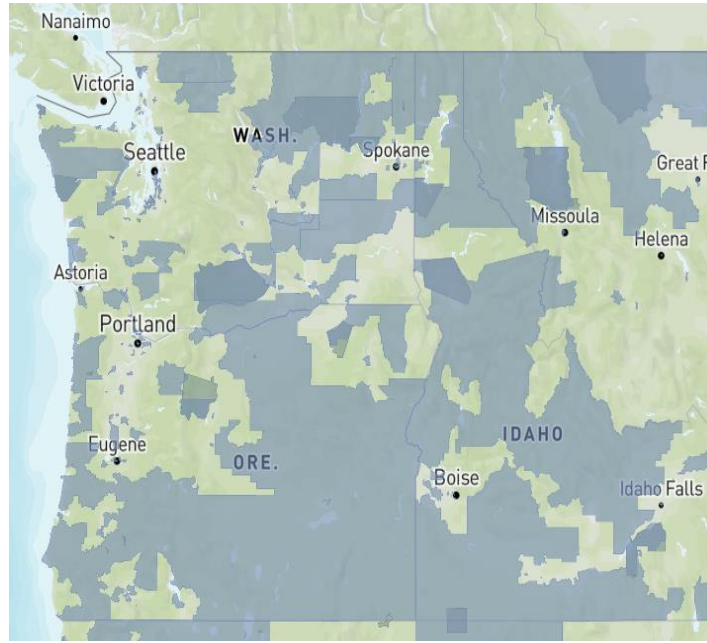


Develop Tableau Dashboard for all CBIs and Insights

Identification of Named Communities/Disadvantaged Communities

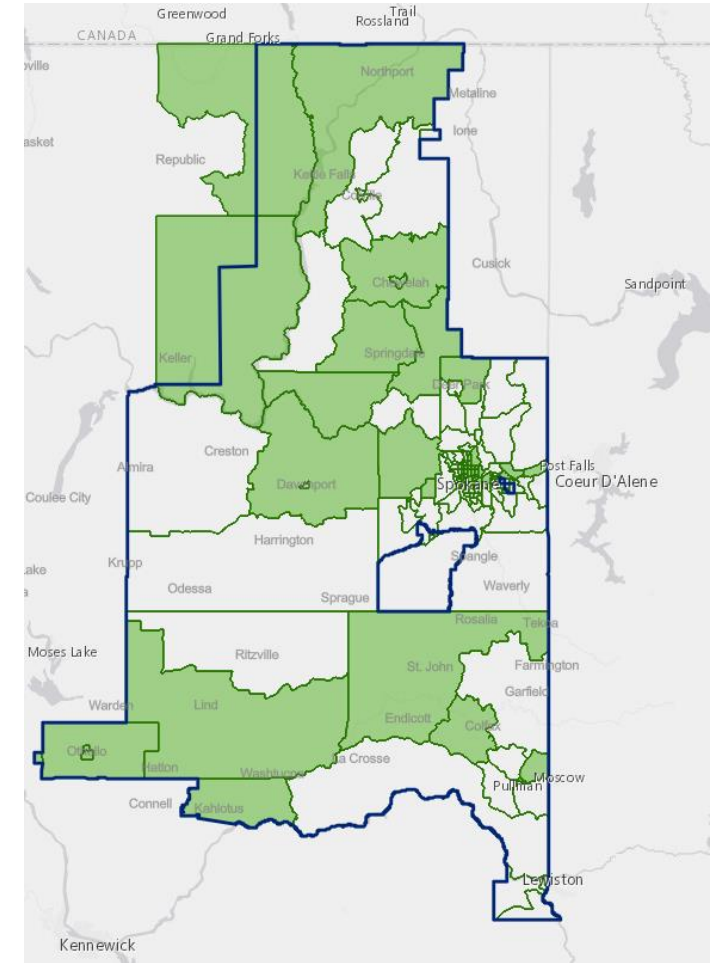


WA DOH Health Disparities Map



Federal Justice40 Map

Avista is moving to Justice40 Mapping as agreed to with Washington UTC

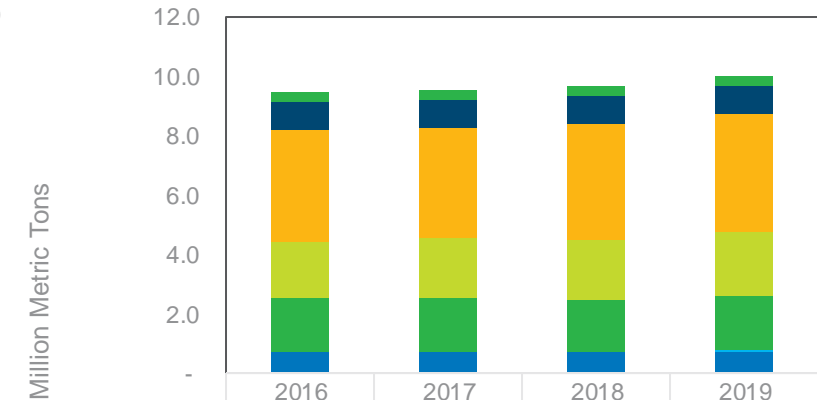
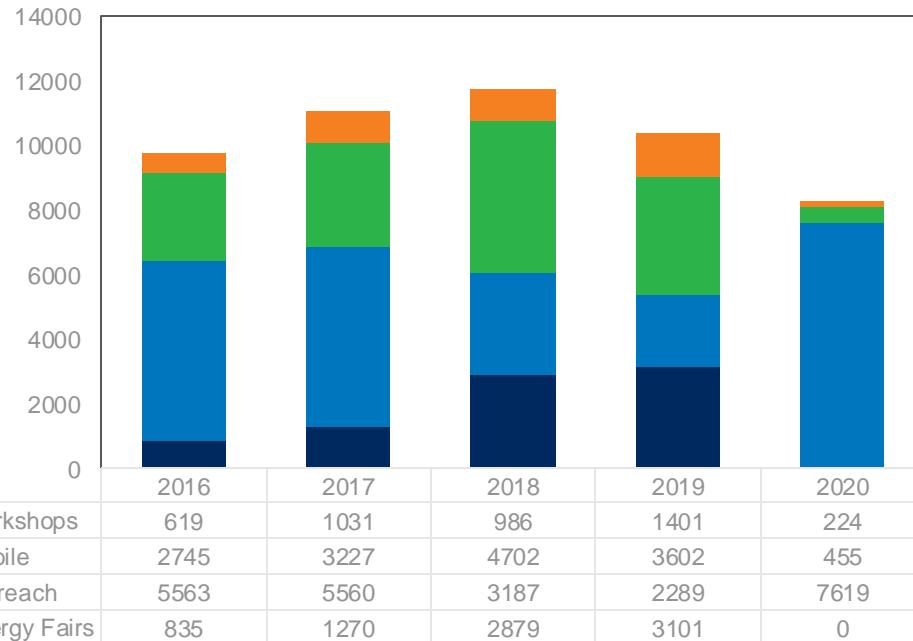
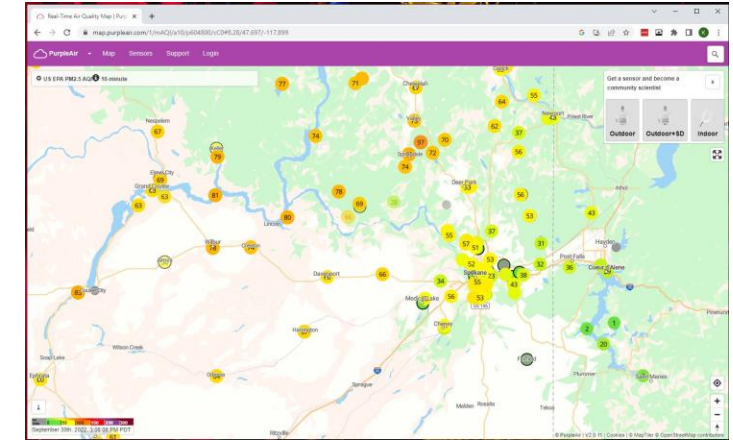
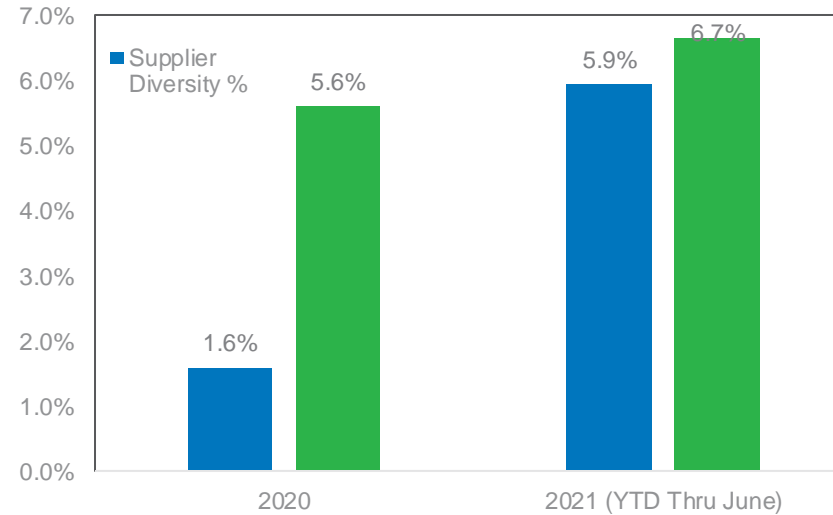


Avista WA Residential Elec Service Territory

SA_ID	ACCT_ID	PREM_ID	SP_ID	PER_ID	RS_CD	START_DT	END_DT	DAYS_OF_SERVICE	CITY	STATE	COUNTY	GEOD	GEOD
1	9103841466	9109394797	3370032783	3370354297	3694697347	W001	2015-09-15 00:00:00	(null)	365 SPOKANE CITY	WA	Spokane	53063003600	53063
2	3236719143	3236808718	9150529500	9150324101	9113523524	W001	2015-09-17 00:00:00	(null)	365 SPOKANE CITY	WA	Spokane	53063001100	53063
3	5703286470	5700350000	6410678190	6410372106	6222450000	W001	2015-09-17 00:00:00	(null)	365 SPOKANE CITY	WA	Spokane	53063004000	53063
4	7611159868	7612204290	2340397563	2340116076	3761886115	W001	2015-09-15 00:00:00	2021-03-01 00:00:00	59 ALBION	WA	Whitman	53075000200	53075
5	9749689850	9747908016	8840323798	8840403897	2184440000	W001	2015-09-16 00:00:00	(null)	365 SPOKANE CITY	WA	Spokane	53063003600	53063
6	6758656615	6759420000	2260374642	2260318403	6372220000	W001	2015-08-31 00:00:00	(null)	365 (null)	WA	Spokane	53063013201	53063
7	7360800775	7362560000	5556236828	5550177743	1948230000	W001	2015-09-16 00:00:00	(null)	365 (null)	WA	Spokane	53063013300	53063
8	3078436557	3077931731	0620505582	0620706665	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	WA	Spokane	53063013800	53063
9	3078242873	3077931731	0901027477	0900704385	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	WA	Spokane	53063013800	53063
10	3079434964	3077931731	1890427861	1890706666	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	WA	Spokane	53063013800	53063
11	3076166832	3077931731	2400407246	2400711187	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	WA	Spokane	53063013800	53063
12	4395192352	4390100874	4390514562	4390390577	4749160000	W001	2015-09-15 00:00:00	(null)	365 SPOKANE CITY	WA	Spokane	53063003900	53063
13	9600446200	9606460000	9600308391	9600469981	9927540000	W001	2015-07-24 00:00:00	2021-09-01 00:00:00	243 SPOKANE CITY	WA	Spokane	53063000200	53063
14	4393318646	4395634579	9160733749	9160519581	6046216647	W001	2015-08-06 00:00:00	(null)	365 LIBERTY LAKE	WA	Spokane	53063013202	53063
15	2489986979	2488714252	6230154568	6230325957	8370950000	W001	2015-08-21 00:00:00	2021-04-16 00:00:00	105 MILLWOOD	WA	Spokane	53063011600	53063
16	7963128187	7965423990	9890776148	9890269974	3420849820	W001	2015-09-18 00:00:00	2021-09-16 00:00:00	258 SPOKANE CITY	WA	Spokane	53063000000	53063
17	2392438560	2391829386	3881339313	3888698118	6736500575	W001	2015-09-17 00:00:00	(null)	365 (null)	Male - 100%			
18	0217825925	0218945581	0660604318	0660270612	6873819310	W001	2015-08-10 00:00:00	(null)	365 SPOKANE CITY	Adult Age Ranges Present - 18 to 24			
19	7829578275	7823395293	1080173377	1080369473	6615993237	W001	2015-09-15 00:00:00	(null)	365 SPOKANE CITY	Female - 100%			
20	0403995053	0409641542	2140518586	2140638417	5755434257	W001	2015-09-01 00:00:00	(null)	365 SPOKANE CITY	Adult Age Ranges Present - 18 to 24			
21	0801753093	0809511749	6530057383	6530287096	9243327240	W001	2015-08-03 00:00:00	(null)	365 SPOKANE CITY	Unknown Gender - 100%			
22	8528793118	8526360000	0180333742	0180563861	3606540000	W001	2015-09-18 00:00:00	(null)	365 SPOKANE CITY	Adult Age Ranges Present - 25 to 34			
23	2475027603	2479586449	0820193473	0820670859	4780749584	W001	2015-08-13 00:00:00	(null)	365 MEDICINE LAKE	Male - 100%			
24	1822699545	1820840000	5810841587	5810180200	2871950000	W001	2015-09-05 00:00:00	(null)	365 MEDICINE LAKE	Adult Age Ranges Present - 25 to 34			
25	0780530157	0781810000	8022643475	8028385328	7409800000	W001	2015-10-02 00:00:00	(null)	365 (null)	Female - 100%			
26	6351971693	6355681573	0470691543	0470707874	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	Adult Age Ranges Present - 25 to 34			
27	6351635151	6355681573	0600266571	0600707669	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	Unknown Gender - 100%			
28	6353297510	6355681573	1690636809	1690708132	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	Adult Age Ranges Present - 35 to 44			
29	6356969089	6355681573	2190535799	2190709861	7740150000	W001	2015-08-31 00:00:00	(null)	365 (null)	Female - 100%			

Adult Age Ranges Present - 18 to 24	Energy Consumer Dynamics - Affordability Level Indicator	Adults - Number in Household - 100%
Male - 100%	Home Property Type	Adults - Number in Household - 100% - Precision Level
Unknown Gender - 100%	Home Property Type Detail (Real Property data only)	Household Size - 100%
Adult Age Ranges Present - 25 to 34	Home Heating / Cooling (Real Property data only)	Household Size - 100% - Precision Level
Male - 100%	Home Square Footage - Ranges (Real Property data only)	Marital Status in the Household - 100% - Precision Level
Female - 100%	Home Heat Source (Real Property data only)	Marital Status in the Household - 100%
Unknown Gender - 100%	Home Market Value - Estimated - Actual (Real Property data only)	Income - Estimated Household - Narrow Ranges - 100%
Adult Age Ranges Present - 45 to 54	Socially Influenced	Income - Estimated Household - Narrow Ranges - 100% - Precision Level
Female - 100%	Heavy Facebook User	Education - 1st Person in Household - 100% - Precision Level
Unknown Gender - 100%	Heavy Twitter User	Education - 1st Person in Household - 100% - Precision Level
Adult Age Ranges Present - 55 to 64	Heavy LinkedIn User	CRA Income Classification Code
Male - 100%	Heavy YouTube User	Home Length of Residence - 100%
Unknown Gender - 100%	Text Poster	Home Length of Residence - 100% - Precision Level
Adult Age Ranges Present - 65 to 74	Photo Poster	Home Owner / Renter - 100%
Male - 100%	Video Poster	Home Owner / Renter - 100% - Precision Level
Unknown Gender - 100%	Post Responder	Social Influencer (Financial)
Adult Age Ranges Present - 75 or over	Business Fan	Mobile Social Networker (Financial)
Male - 100%	Gender - Person	Geoscape - Overall Socioeconomic Status (SES) Index
Unknown Gender - 100%	Race Code - Person	
Adult Age Ranges Present - 100% - Precision Level	E-Tech - Ethnicity Group Codes	Consume Media Via Radio
	E-Tech - Language Preference	Consume Media Via Yellow Pages

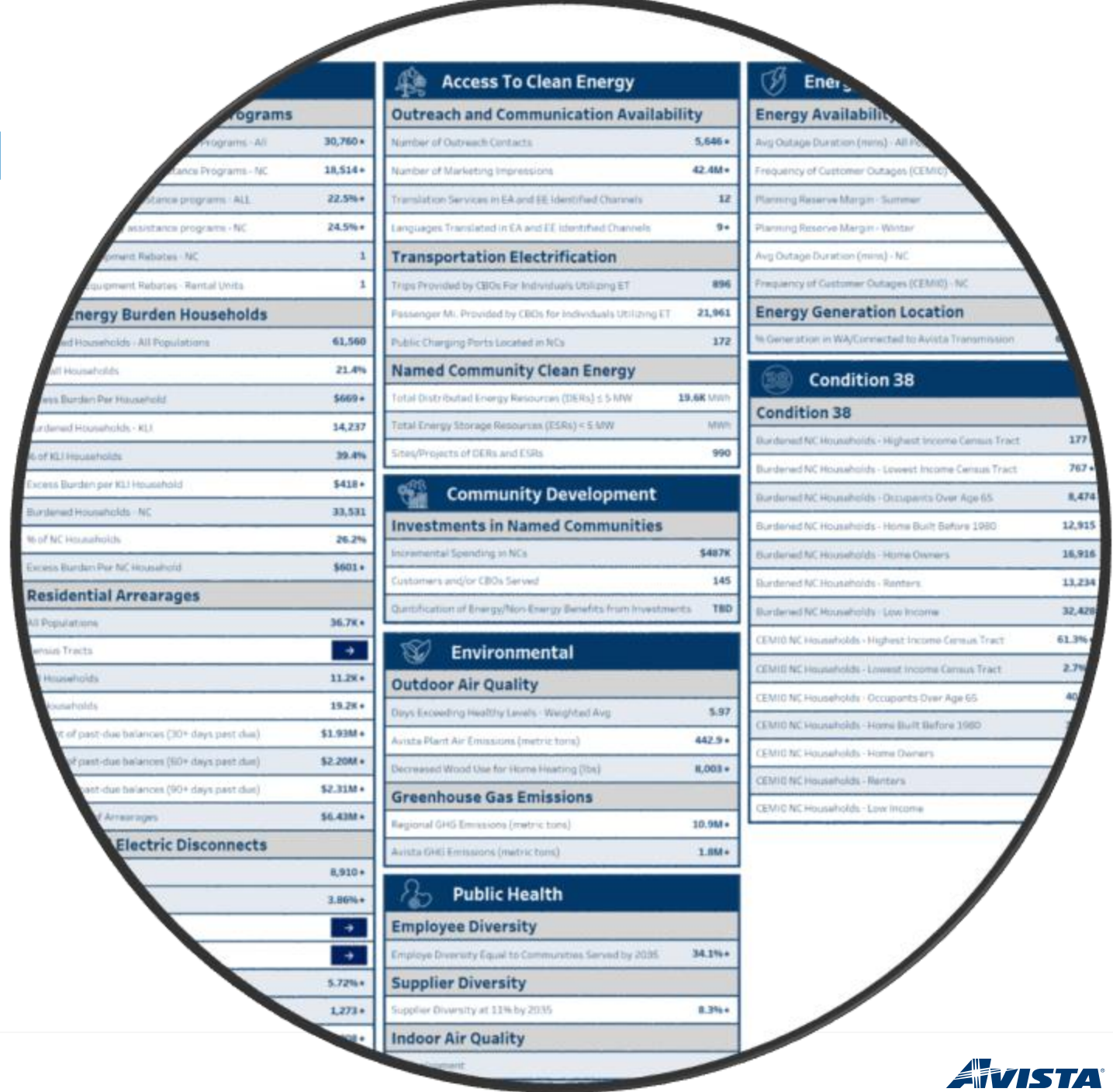
Identify Data Sources



	2016	2017	2018	2019
Waste Management	0.33	0.32	0.32	0.32
Agriculture	0.96	0.95	0.95	0.95
Transportation	3.76	3.71	3.89	3.95
Residential & Commercial Fuels	1.89	2.03	2.04	2.17
Electric Power Serving Washington	1.78	1.76	1.73	1.84
Electric Power Serving Idaho	0.01	0.01	0.01	0.01
Large Sources	0.73	0.74	0.73	0.75
Total	9.45	9.51	9.66	10.00

Examples of Additional data required: *Supplier Diversity, Employee Diversity, Outdoor Air Quality, Greenhouse Gas Emissions, Marketing Impressions, Translation services, Electric Vehicles Charging ports, Total MWh DER*

Avista CBI Dashboard



Timeline and Deliverables

Define CBIs

Identify Data Sources

Develop Map Layers

Develop Metrics

Develop Dashboard

Automate workflows

Quarterly Data Updates

Enhance VP methodology

Update Geographies

CEIP Progress Report

Monitor Dashboard

CEIP Update

Quarterly Data Updates

Develop New CBIs

Monitor Dashboard

Incorporate new CBIs
in CEIP

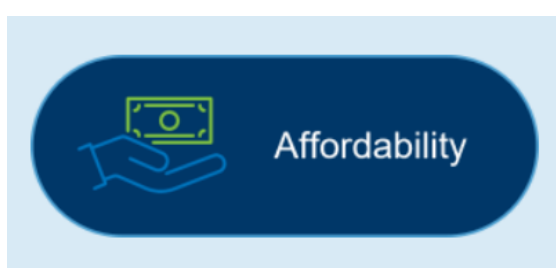
Monitor New CBIs

2022

2023

2024

2025



Equity Benefit Area	CBI	#	CBI Metrics
Affordability (AFF)	(1) Participation in Company Programs	1	Participation in weatherization programs and energy assistance programs - ALL
		2	Participation in weatherization programs and energy assistance programs - Named Communities
		3	Saturation of energy assistance programs - ALL
		4	Saturation of energy assistance programs - Named Communities
		5	Residential appliance and equipment rebates provided to customers residing in Named Communities (Condition #17)
		6	Residential appliance and equipment rebates provided to customers residing in rental units (Condition #17)
Affordability (AFF)	(2) Number of households with a High Energy Burden (>6%)	1	Number of households - All
		2	Number of households - KLI (Condition #18)
		3	Number of households - Named Communities
		4	Percent of households - All
		5	Percent of households - KLI (Condition #18)
		6	Percent of households - Named Communities
		7	Average excess burden per household - ALL
		8	Average excess burden per household - KLI (Condition #18)
		9	Average excess burden per household - Named Communities



Equity Benefit Area	CBI	#	CBI Metrics
Affordability (AFF)	(14) Residential Arrearages and Disconnections for Nonpayment	1	Number of residential electric disconnections for non-payment by month for Census Tracts(Condition #22)
		2	Number of residential electric disconnections for non-payment by month for KLI (Condition #22)
		3	Number of residential electric disconnections for non-payment by month for Vulnerable Populations (Condition #22)
		4	Number of residential electric disconnections for non-payment by month for Highly Impacted Communities(Condition #22)
		5	Number of residential electric disconnections for non-payment by month for All Customers (Condition #22)
		6	Percent of residential electric disconnections for non-payment by month for Census Tracts(Condition #22)
		7	Percent of residential electric disconnections for non-payment by month for KLI (Condition #22)
		8	Percent of residential electric disconnections for non-payment by month for Vulnerable Populations (Condition #22)
		9	Percent of residential electric disconnections for non-payment by month for Highly Impacted Communities(Condition #22)
		10	Percent of residential electric disconnections for non-payment by month for All Customers (Condition #22)
		11	Number of Residential arrearages by month for Census Tracts (Condition #22)
		12	Number of Residential arrearages by month for KLI (Condition #22)
		13	Number of Residential arrearages by month for Vulnerable Populations (Condition #22)
		14	Number of Residential arrearages by month for Highly Impacted Communities (Condition #22)
		15	Number of Residential arrearages by month for All Customers (Condition #22)
		16	Amount of past-due balances that ar 30+, 60+, and 90+ dasy past due (Condition #22)
		17	Total amount of Arrearages (Condition #22)



Equity Benefit Area	CBI	#	CBI Metrics
Access to Clean Energy (ATCE)	(3) Availability of Methods/Modes of Outreach and Communication	1	Number of outreach contacts
		2	Number of marketing impressions
		3	Number of translation services provided in Energy Access and Energy Efficiency identified channels. (Condition #19)
		4	Number of unique languages translated in Energy Access and Energy Efficiency identified channels (Condition #19)
Access to Clean Energy (ATCE)	(4) Transportation Electrification	1	Number of trips provided by Community Based Organizations (CBOs) for individuals utilizing electric transportation
		2	Number of annual passenger miles provided by CBOs for individuals utilizing electric transportation
		3	Number of public charging stations located in Named Communities
Access to Clean Energy (ATCE)	(5) Named Community Clean Energy	1	Total MWh of distributed energy resources 5 MW and under (Condition #26)
		2	Total of MWh of energy storage resources under 5 MW (Condition #26)
		3	Number of sites/projects of distributed renewable energy resources and energy storage resources (Condition #26)
Community Development (CD)	(6) Investments in Named Communities	1	Incremental spending each year In Named Communities
		2	Number of customers and/or CBOs served
		3	Quantification of energy/non-energy benefits from investments (if applicable)

Equity Benefit Area	CBI	#	CBI Metrics
Energy Security (ES)	(7) Energy Availability	1	Average outage duration - ALL
		2	Average outage duration - in Named Communities
		3a	Planning Reserve Margin (Resource Adequacy) - Summer
		3b	Planning Reserve Margin (Resource Adequacy) - Winter
		4	Frequency of customer outages - CEMIO in Named Communities (Condition #21)
		5	Frequency of customer outages - CEMIO in ALL (Condition #21)
Energy Security (ES)	(8) Energy Generation Location	1	Percent of generation located in Washington or connected to Avista transmission
Environmental (ENV)	(9) Outdoor Air Quality	1	Weighted average days exceeding healthy levels
		2	Avista plant air emissions
		3	Decreased wood use for home heating (Condition #20)
Environmental (ENV)	(10) Greenhouse Gas Emissions	1	Regional GHG emissions
		2	Avista GHG Emissions
Public Health (PH)	(11) Employee Diversity	1	Employee diversity equal to communities served by 2035
Public Health (PH)	(12) Supplier Diversity	2	Supplier Diversity at 11 percent by 2035
Public Health (PH)	(13) Indoor Air Quality	3	In development



Condition 38

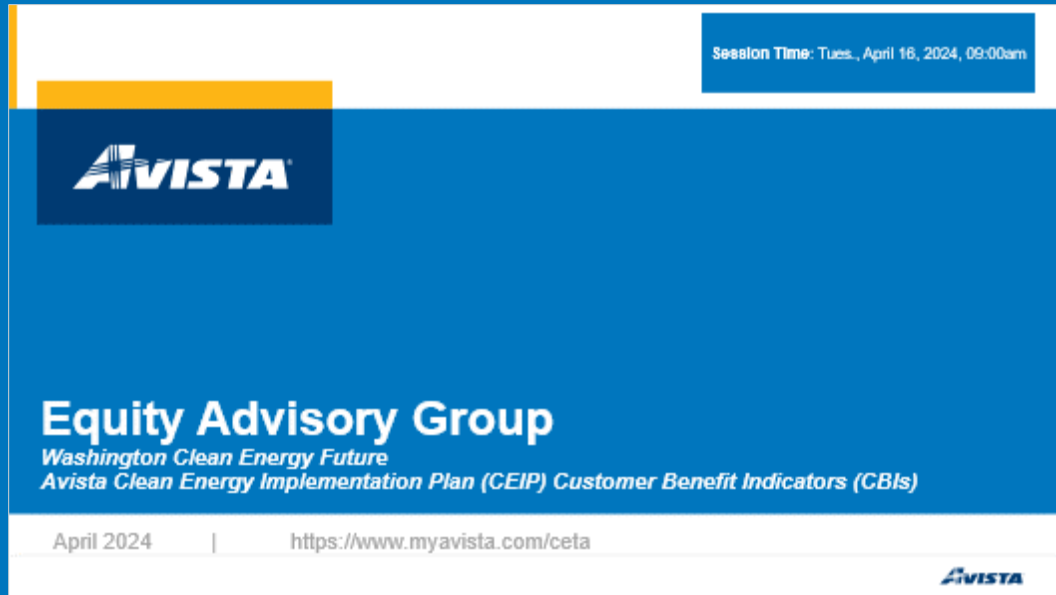


Equity Benefit Area	CBI	#	CBI Metrics
Condition 38 (CND38)	Condition 38 (2x5)	1	Number of Named Community Households with high energy burden from NC Census tract with highest median income
		2	Number of Named Community Households with high energy burden from NC Census tract with lowest median income
		3	Number of Named Community Households with high energy burden that have occupants over the age of 65
		4	Number of Named Community Households with high energy burden where home year built is < 1980
		5	Number of Named Community Households with high energy burden that are home owners
		6	Number of Named Community Households with high energy burden that are renters
		7	Number of Named Community Households with high energy burden that are low income
		8	Percent of Named Community Households with CEMIO from NC Census tract with highest median income
		9	Percent of Named Community Households with CEMIO from NC Census tract with lowest median income
		10	Percent of Named Community Households with CEMIO that have occupants over the age of 65
		11	Percent of Named Community Households with CEMIO where home year built is < 1980
		12	Percent of Named Community Households with CEMIO that are home owners
		13	Percent of Named Community Households with CEMIO that are renters
		14	Percent of Named Community Households with CEMIO that are low income

Q&A

Thank you~

Thank you!



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