

# Appendix A- Community Dashboards

## Purpose and Scope: Tribal Roadmap for GHG Reduction

The core purpose of our Climate Action Plan is to create a tangible, effective roadmap for reducing greenhouse gas (GHG) emissions by leveraging this planning phase to develop impactful projects. This Climate Action Plan, developed with the support of the EPA's Climate Pollution Reduction Program, represents the concerted effort of a consortium of Tribes dedicated to preserving their way of life and natural resources. It is a strategic response to the urgent challenge of climate change, encompassing both the Priority Climate Action Plan (PCAP) and the Comprehensive Climate Action Plan (CCAP), reflecting the Tribes' role as stewards of their ancestral lands.

## Phase I: Priority Climate Action Plan (PCAP) – March 1, 2024

The first phase of our journey begins with the creation of the PCAP. Our focus in this phase is to identify immediate, actionable strategies to reduce greenhouse gas (GHG) emissions. The PCAP will encapsulate near-term priorities, reflecting our unique environmental challenges. This plan will serve as a springboard, enabling us to pursue the necessary funding through the EPA CPRG Implementation Phase and support for our envisioned projects.

## Phase II: Comprehensive Climate Action Plan (CCAP)

With the foundational work of the PCAP in place, we will expand our vision in the CCAP, due Summer 2025. This comprehensive plan will delve deeper, covering significant GHG emission sources and carbon sinks within our region. It will outline both short- and long-term goals, strategies, and measures, encompassing a broad spectrum of environmental, economic, and project opportunity considerations. The CCAP is our roadmap to not only meet the immediate challenges of climate change but to set a course for the future.

## Implementation Grant Applications

Application Type	Applicant Eligibility	PCAP Deadline	Grant Application Deadline
<b>General Competition (\$2MM - \$500MM)</b>	State, Municipality, Tribe, Tribal Consortium, Territory	March 1, 2024	April 1, 2024, at 11:59 p.m. (ET)
<b>Tribal Competition (\$1MM - \$25MM)</b>	Tribe, Tribal Consortium, Territory	April 1, 2024	May 1, 2024, at 11:59 p.m. (ET)

*\*Note – Measures/Projects must be listed in a PCAP to be eligible to be included in an Implementation Grant Application. See: <https://www.epa.gov/inflation-reduction-act/about-cprg-implementation-grants> for more information.*

# Chignik Bay

## Community Dashboard - Climate Action Plan Projects ("Measures")

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

**To qualify for the competitive Implementation Grants, totaling \$4.3 billion, project ("measures") must be detailed in the PCAP and are due to the EPA on March 1st for consideration in the General Competition or April 1st for consideration under the Tribal Competition.**

Deadlines Implementation Grant applications are:

**April 1, 2024** - (General Competition) States, Cities, Municipalities, Boroughs

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
92	\$ 1.21	11.32	4.2%	664,734	285	\$ 5.21	\$ 0.11	\$ 0.42

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	47	buildings	981,679	7,635	171,395	\$ 49,205	\$ 1,692,000	34.4	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	49	buildings	3,324,198	26,535	595,717	\$ 136,846	\$ 2,082,500	15.2	Building Owner
Community Building Energy Efficiency	Building retrofits	10	buildings	1,030,171	8,109	182,038	\$ 38,008	\$ 500,000	13.2	City, Tribe
Community Scale Solar	One, new System	190	kW	1,318,311	17,617	395,493	\$ 21,316	\$ 1,813,947	85.1	Utility, IPP, Tribe
Community Scale Wind	One, new System	200	kW	1,461,945	23,489	670,959	\$ 61,755	\$ 2,805,750	45.4	Utility, IPP
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	1,318,311	11,241	252,362	\$ 13,602	\$ 1,160,000	85.3	Utility
Electric Utility Upgrades - Heat Recovery	Install new system	10	%, target for fuel reduction	1,318,311	1,174	131,831	\$ 6,119	\$ 2,000,000	65.4	Utility

**Other projects identified by the community but not quantified:** decrease community waste, ban styrofoam and plastic bags, expand recyclable material collection and resources, increase education and awareness around recycling, develop a robust and sustainable food economy to increase availability of local food, repair and upgrade existing hydroelectric facility, and where economically viable install heat pumps.

# Chignik Lagoon

## Community Dashboard - Climate Action Plan Projects ("Measures")

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86	\$ 3.06	12.57	12.1%	435,406	71	\$ 7.65	\$ 0.28	\$ 0.58

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	69	buildings	1,468,866	11,331	254,391	\$ 140,741	\$ 2,484,000	17.6	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	14	buildings	993,262	993,262	174,554	\$ 59,095	\$ 595,000	10.1	Building Owner
Community Building Energy Efficiency	Building retrofits	7	buildings	623,444	5,241	117,659	\$ 38,800	\$ 350,000	9.0	City, Tribe
Community Scale Solar	New System	124	kW	777,634	10,392	233,290	\$ 31,798	\$ 885,075	27.8	Utility, IPP, Tribe
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	777,634	2,113	46,658	\$ 6,466	\$ 75,000	11.6	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	777,634	3,538	79,430	\$ 10,827	\$ 1,185,000	109.5	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	777,634	693	15,553	\$ 5,300	\$ 75,000	14.2	Utility

**Other projects identified by the community but not quantified: repair existing hydroelectric facility and upgrade electronics and controls, and where economically viable install heat pumps.**

# Chignik Lake

## Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
49	\$ 3.24	8.26	4.0%	231,109	53	\$ 8.10	\$ 0.33	\$ 0.70

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	43	buildings	955,935	7,242	162,589	\$ 82,436	\$ 1,548,000	18.8	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	6	buildings	479,065	479,065	80,147	\$ 27,300	\$ 255,000	9.3	Building Owner
Community Building Energy Efficiency	Building retrofits	9	buildings	784,804	6,664	149,599	\$ 52,213	\$ 450,000	8.6	City, Tribe
Community Scale Solar	New System	66	kW	628,135	8,394	188,441	\$ 27,196	\$ 616,953	22.7	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	200	kW	867,699	11,192	490,817	\$ 122,696	\$ 1,353,350	11.0	Utility, IPP
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	628,135	11,472	257,535	\$ 37,168	\$ 1,115,000	30.0	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	27,979	560	12,563	\$ 4,533	\$ 50,000	11.0	Utility

**Other projects identified by the community but not quantified: expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, and where economically viable install heat pumps.**

## Clark's Point

### Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
59	\$ 2.25	11.52	25.7%	410,188	102	\$ 5.63	\$ 0.50	\$ 0.80

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	51	buildings	1,084,791	8,371	187,939	\$ 73,323	\$ 1,836,000	25.0	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	18	buildings	1,170,170	1,170,170	213,738	\$ 56,800	\$ 765,000	13.5	Building Owner
Community Building Energy Efficiency	Building retrofits	2	buildings	178,895	1,501	33,694	\$ 8,455	\$ 100,000	11.8	City, Tribe
Community Scale Solar	New System	117	kW	799,368	10,682	239,810	\$ 24,034	\$ 916,761	38.1	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	100	kW	853,969	14,243	374,348	\$ 45,727	\$ 1,448,900	31.7	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	799,368	7,014	47,962	\$ 15,783	\$ 75,000	4.8	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	799,368	6,307	141,602	\$ 14,192	\$ 2,085,000	146.9	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	799,368	712	15,987	\$ 4,006	\$ 50,000	12.5	Utility

**Other projects identified by the community but not quantified: where economically viable install heat pumps.**

## Curyung (Dillingham), Aleknagik\*

### Community Dashboard - Climate Action Plan Projects ("Measures")

\* These communities are represented on a single dashboard because they share an electric utility and are interconnected by an electrical grid, resulting in their Power Cost Equalization (PCE) data being aggregated. The Climate Action Plan utilizes this combined PCE data for establishing baseline and projected reduction of greenhouse gas (GHG) emissions.

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

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2,463	\$ 1.91	14.91	4.2%	19,745,362	6,480	\$ 4.78	\$ 0.16	\$ 0.45

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	1035	buildings	23,877,005	178,185	4,000,262	\$ 1,669,241	\$ 37,260,000	22.3	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	466	buildings	42,365,526	42,365,526	6,740,562	\$ 1,582,975	\$ 19,805,000	12.5	Building Owner
Community Building Energy Efficiency	Building retrofits	51	buildings	5,374,249	41,890	940,431	\$ 185,718	\$ 2,550,000	13.7	City, Tribe
Community Scale Solar	New System	1877	kW	29,730,609	132,430	2,973,061	\$ 252,942	\$ 10,007,200	39.6	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	6000	kW	34,083,144	529,721	16,244,779	\$ 1,937,530	\$ 48,636,000	25.1	Utility, IPP
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	equipment needs for future renewable integration	N/A	29,730,609	N/A	N/A	N/A	\$ 2,085,000	N/A	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	% target for fuel reduction	29,730,609	26,486	594,612	\$ 126,471	\$ 100,000	0.8	Utility

**Other projects identified by the community but not quantified:** encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, decrease community waste, ban styrofoam and plastic bags, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, include GHG emission consideration in future decisions of land use and development, and where economically viable install heat pumps.

# Egegik

## Community Dashboard - Climate Action Plan Projects ("Measures")

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78	\$ 3.03	11.89	7.3%	697,206	275	\$ 5.00	\$ 0.42	\$ 0.65

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Residential Energy Efficiency	Individual home retrofits	85	buildings	1,652,207	13,258	297,653	\$ 111,607	\$ 3,060,000	27.4	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	27	buildings	2,008,837	2,008,837	345,966	\$ 83,834	\$ 1,147,500	13.7	Building Owner
Community Building Energy Efficiency	Building retrofits	18	buildings	1,675,432	13,799	309,781	\$ 68,986	\$ 900,000	13.0	City, Tribe
Community Scale Solar	New System	199	kW	1,316,423	17,591	394,927	\$ 53,302	\$ 1,831,485	34.4	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	200	kW	1,452,874	23,455	663,020	\$ 101,459	\$ 2,786,250	27.5	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	% target for line loss	1,316,423	762	78,985	\$ 2,310	\$ 75,000	32.5	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	% target for efficiency	1,316,423	8,838	198,404	\$ 26,778	\$ 1,010,000	37.7	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	% target for fuel reduction	1,316,423	1,173	26,328	\$ 5,864	\$ 75,000	12.8	Utility

**Other projects identified by the community but not quantified: adopt community wide composting program, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, develop a program to plant trees, and where economically viable install heat pumps.**

# Ekuk

## Community Dashboard - Climate Action Plan Projects ("Measures")

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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Residential Energy Efficiency	Individual home retrofits	67	buildings	1,043,880	9,300	208,776	\$ 52,310	\$ 2,412,000	46.1	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Solar	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Heat Recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Other projects identified by the community but not quantified: where economically viable install heat pumps.**

# Iguigig

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
53	\$ 7.63	13.05	18.8%	351,096	132	\$ 10.00	\$ 0.70	\$ 0.92

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	31	buildings	641,983	5,011	112,497	\$ 113,546	\$ 1,116,000	9.8	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	15	buildings	970,511	970,511	177,652	\$ 80,602	\$ 637,500	7.9	Building Owner
Community Building Energy Efficiency	Building retrofits	11	buildings	989,209	8,278	185,844	\$ 82,319	\$ 550,000	6.7	City, Tribe
Community Scale Solar	New System	100	kW	533,319	8,071	181,198	\$ 61,583	\$ 907,861	14.7	Utility, IPP, Tribe
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	533,319	3,444	36,240	\$ 26,275	\$ 75,000	2.9	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	533,319	1,612	36,190	\$ 12,300	\$ 305,004	24.8	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	533,319	538	12,080	\$ 5,381	\$ 50,000	9.3	Utility

**Other projects identified by the community but not quantified: encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, develop a program to plant trees, gravel to cover plastic in landfill to reduce emissions, repair and upgrade existing hydrokinetic power generation equipment, upgrade power plant integration equipment, and where economically viable install heat pumps.**

## Iliamna, Nondalton, Newhalen\*

### Community Dashboard - Climate Action Plan Projects ("Measures")

\* These communities are represented on a single dashboard because they share an electric utility and are interconnected by an electrical grid, resulting in their Power Cost Equalization (PCE) data being aggregated. The Climate Action Plan utilizes this combined PCE data for establishing baseline and projected reduction of greenhouse gas (GHG) emissions.

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
446	\$ 3.66	12.8	8.8%	3,898,830	778	\$ 7.10	\$ 0.37	\$ 0.64

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalent (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Residential building retrofits	189	buildings	4,369,119	32,578	731,380	\$ 483,504	\$ 6,804,000	14.1	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Commercial building retrofits	109	buildings	9,073,888	9,073,888	1,493,091	\$ 487,850	\$ 4,632,500	9.5	Building Owner
Community Building Energy Efficiency	Community building retrofits	15	buildings	1,638,610	12,579	282,392	\$ 84,536	\$ 750,000	8.9	City, Tribe
Community Scale Solar	One, new system	41	kW	88,923	3,369	75,632	\$ 12,330	\$ 2,681,050	217.4	Utility, IPP, Tribe
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	88,923	314	15,126	\$ 1,151	\$ 75,000	65.2	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	88,923	340	7,622	\$ 1,243	\$ 20,000	16.1	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction heat pumps in	88,923	6,092	136,764	\$ 43,253	\$ 100,000	2.3	Utility
Other	New System	189	buildings	4,369,119	131,166	2,944,677	\$ 465,639	\$ 1,890,000	4.1	Housing Authority, Tribe, City

**Other projects identified by the community but not quantified:** encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, increase education and awareness around recycling, expand recyclable material collection and resources, decrease community waste and ban styrofoam and plastic bags, develop a robust and sustainable food economy to increase availability of local food, include GHG emission consideration in future decisions of land use and development, encourage community to pass a resolution to reach 100% renewable energy by 2050, and where economically viable install heat pumps.

# Ivanof Bay

## Community Dashboard - Climate Action Plan Projects ("Measures")

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	16	buildings	249,285	2,221	49,857	\$ 18,266	\$ 576,000	31.5	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Solar	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Heat Recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Other projects identified by the community but not quantified: where economically viable install heat pumps.**

# Kokhanok

## Community Dashboard - Climate Action Plan Projects ("Measures")

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**The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.**

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
159	\$ 3.68	11.42	13.8%	549,084	98	\$ 9.20	\$ 0.50	\$ 0.90

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	56	buildings	1,300,688	9,680	217,319	\$ 151,666	\$ 2,016,000	13.3	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	20	buildings	1,190,398	1,190,398	226,508	\$ 93,379	\$ 850,000	9.1	Building Owner
Community Building Energy Efficiency	Building retrofits	9	buildings	864,360	7,018	157,555	\$ 62,185	\$ 450,000	7.2	City, Tribe
Community Scale Solar	New System	151	kW	1,040,642	13,906	312,193	\$ 51,175	\$ 1,044,889	20.4	Utility, IPP, Tribe
Community Scale Wind	Upgrade existing	300	kW	1,225,965	47,950	1,076,474	\$ 222,023	\$ 3,000,000	13.5	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	1,040,642	3,750	64,765	\$ 13,801	\$ 75,000	5.4	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	1,040,642	8,542	191,775	\$ 31,436	\$ 1,105,000	35.2	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	1,040,642	962	21,588	\$ 8,847	\$ 75,000	8.5	Utility

**Other projects identified by the community but not quantified: Encourage composting in homes and businesses, decrease community waste, ban styrofoam and plastic bags, expand recyclable material collection and resources, increase education and awareness around recycling, develop a robust and sustainable food economy to increase availability of local food and where economically viable install heat pumps.**

## Levelock

### Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
60	\$ 3.19	12.83	21.4%	396,175	106	\$ 7.98	\$ 0.12	\$ 0.85

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	38	buildings	758,545	6,016	135,060	\$ 72,416	\$ 1,368,000	18.9	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	34	buildings	2,080,720	2,080,720	390,768	\$ 142,126	\$ 1,445,000	10.2	Building Owner
Community Building Energy Efficiency	Building retrofits	6	buildings	536,134	4,500	101,026	\$ 34,110	\$ 300,000	8.8	City, Tribe
Community Scale Solar	New System	113	kW	693,229	9,264	207,969	\$ 29,551	\$ 908,578	30.7	Utility, IPP, Tribe
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	693,229	4,755	41,594	\$ 15,170	\$ 75,000	4.9	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	693,229	2,581	57,934	\$ 8,232	\$ 2,085,000	253.3	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	693,229	618	13,865	\$ 4,925	\$ 50,000	10.2	Utility

**Other projects identified by the community but not quantified: encourage composting in homes and businesses, adopt community wide composting program, decrease community waste, ban styrofoam and plastic bags, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, and where economically viable install heat pumps.**

# Manokotak

## Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
490	\$ 2.66	3.92	20.6%	343,298	370	\$ 7.90	\$ 0.23	\$ 0.60

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	127	buildings	5,607,666	33,792	758,636	\$ 307,810	\$ 4,572,000	14.9	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	35	buildings	2,942,957	2,942,957	482,365	\$ 143,490	\$ 1,487,500	10.4	Building Owner
Community Building Energy Efficiency	Building retrofits	5	buildings	659,390	4,697	105,449	\$ 28,868	\$ 250,000	8.7	City, Tribe
Community Scale Solar	New System	98	kW	1,966,082	26,273	589,824	\$ 69,886	\$ 1,613,066	23.1	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	100	kW	2,035,481	35,030	855,832	\$ 117,602	\$ 1,971,500	16.8	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	1,966,082	12,786	117,965	\$ 34,011	\$ 75,000	2.2	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	1,966,082	63,055	1,415,579	\$ 167,726	\$ 1,963,000	11.7	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	1,966,082	1,752	39,322	\$ 13,837	\$ 50,000	3.6	Utility

**Other projects identified by the community but not quantified:** increase education and awareness around recycling, expand recyclable material collection and resources, increase GHG emission consideration in future decisions about land use and development, and where economically viable install heat pumps.

## Naknek, South Naknek, King Salmon\*

### Community Dashboard - Climate Action Plan Projects ("Measures")

\* These communities are represented on a single dashboard because they share an electric utility and are interconnected by an electrical grid, resulting in their Power Cost Equalization (PCE) data being aggregated. The Climate Action Plan utilizes this combined PCE data for establishing baseline and projected reduction of greenhouse gas (GHG) emissions.

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
868	\$ 1.98	14.86	9.7%	24,489,126	13,969	\$ 4.95	\$ 0.25	\$ 0.58

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	931	buildings	19,223,785	150,241	3,372,904	\$ 1,258,059	\$ 33,516,000	26.6	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	443	buildings	44,750,936	44,750,936	6,855,515	\$ 1,853,886	\$ 18,827,500	10.2	Building Owner
Community Building Energy Efficiency	Building retrofits	38	buildings	4,729,738	34,443	773,253	\$ 160,994	\$ 1,900,000	11.8	City, Tribe
Community Scale Solar	New System	2328	kW	36,997,367	164,799	3,699,737	\$ 326,302	\$ 11,810,782	36.2	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	7500	kW	42,480,640	659,196	20,282,219	\$ 2,514,214	\$ 72,239,550	28.7	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	36,997,367	60,976	2,219,842	\$ 120,732	\$ 75,000	0.6	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	equipment needs for future renewable integration	N/A	36,997,367	N/A	N/A	N/A	\$ 283,000	N/A	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	36,997,367	32,960	739,947	\$ 163,151	\$ 100,000	0.6	Utility

**Other projects identified by the community but not quantified:** encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, develop a program to plant trees, include GHG emission consideration in future decisions of land use and development, and where economically viable install heat pumps.

# New Koliganek

## Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
194	\$ 3.14	12.56	7.8%	695,440	97	\$ 6.50	\$ 0.24	\$ 0.50

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	75	buildings	1,629,327	12,463	279,785	\$ 148,615	\$ 2,700,000	18.2	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	14	buildings	852,865	852,865	160,514	\$ 46,375	\$ 595,000	12.8	Building Owner
Community Building Energy Efficiency	Building retrofits	11	buildings	1,015,502	8,395	188,473	\$ 52,298	\$ 550,000	10.5	City, Tribe
Community Scale Solar	New System	198	kW	1,243,044	16,611	372,913	\$ 52,158	\$ 1,232,370	23.6	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	200	kW	1,379,885	22,148	634,059	\$ 109,164	\$ 2,439,150	22.3	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	1,243,044	997	74,583	\$ 3,129	\$ 75,000	24.0	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	1,243,044	5,695	127,856	\$ 17,883	\$ 988,000	55.2	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	1,243,044	1,107	24,861	\$ 7,198	\$ 75,000	10.4	Utility

**Other projects identified by the community but not quantified: encourage composting in homes and businesses, increase education and awareness around recycling, expand recyclable material collection and resources, and where economically viable install heat pumps.**

## New Stuyahok, Ekwok\*

### Community Dashboard - Climate Action Plan Projects ("Measures")

\* These communities are represented on a single dashboard because they share an electric utility and are interconnected by an electrical grid, resulting in their Power Cost Equalization (PCE) data being aggregated. The Climate Action Plan utilizes this combined PCE data for establishing baseline and projected reduction of greenhouse gas (GHG) emissions.

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

**To qualify for the competitive Implementation Grants, totaling \$4.3 billion, project ("measures") must be detailed in the PCAP and are due to the EPA on March 1st for consideration in the General Competition or April 1st for consideration under the Tribal Competition.**

Deadlines Implementation Grant applications are:

**April 1, 2024** - (General Competition) States, Cities, Municipalities, Boroughs

**May 1, 2024** - (Tribal Competition) Tribes, Tribal Consortia

[Visit the EPA CPRG Program site for more information.](#)

The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
591	\$ 3.14	13.22	27.1%	1,926,243	90	\$ 7.85	\$ 0.28	\$ 0.56

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	152	buildings	3,358,658	25,509	572,686	\$ 348,754	\$ 5,472,000	15.7	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	59	buildings	3,326,692	3,326,692	649,700	\$ 226,867	\$ 2,507,500	11.1	Building Owner
Community Building Energy Efficiency	Building retrofits	18	buildings	1,888,982	14,750	331,136	\$ 107,165	\$ 900,000	8.4	City, Tribe
Community Scale Solar	New System	549	kW	3,271,116	43,712	981,335	\$ 137,256	\$ 2,622,577	19.1	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	600	kW	3,717,053	58,283	1,754,384	\$ 338,937	\$ 4,525,500	13.4	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	3,271,116	30,744	196,267	\$ 96,537	\$ 75,000	0.8	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	3,271,116	8,118	182,248	\$ 25,490	\$ 1,623,000	63.7	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	3,271,116	2,914	65,422	\$ 22,876	\$ 100,000	4.4	Utility

**Other projects identified by the community but not quantified: encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, develop a program to plant trees, and where economically viable install heat pumps.**

## Pedro Bay

### Community Dashboard - Climate Action Plan Projects ("Measures")

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
34	\$ 3.68	10.73	8.5%	217,320	76	\$ 9.20	\$ 0.31	\$ 0.82

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	42	buildings	761,974	6,309	141,635	\$ 72,558	\$ 1,512,000	20.8	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	16	buildings	1,065,888	1,065,888	192,563	\$ 78,544	\$ 680,000	8.7	Building Owner
Community Building Energy Efficiency	Building retrofits	4	buildings	360,657	3,014	67,674	\$ 26,567	\$ 200,000	7.5	City, Tribe
Community Scale Solar	New System	62	kW	454,691	6,076	136,407	\$ 22,360	\$ 646,076	28.9	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	100	kW	551,959	8,101	279,145	\$ 69,674	\$ 1,398,200	20.1	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	454,691	506	27,281	\$ 1,863	\$ 75,000	40.3	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	454,691	4,731	106,203	\$ 17,409	\$ 1,523,000	87.5	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	454,691	405	9,094	\$ 3,727	\$ 50,000	13.4	Utility

Other projects identified by the community but not quantified: where economically viable install heat pumps.

# Perryville

## Community Dashboard - Climate Action Plan Projects ("Measures")

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
98	\$ 3.29	10.88	4.6%	417,888	101	\$ 8.23	\$ 0.95	\$ 0.95

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	24	buildings	605,214	4,361	97,914	\$ 64,276	\$ 864,000	13.4	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	21	buildings	1,620,113	1,620,113	274,853	\$ 105,321	\$ 892,500	8.5	Building Owner
Community Building Energy Efficiency	Building retrofits	6	buildings	539,886	4,517	101,401	\$ 37,769	\$ 300,000	7.9	City, Tribe
Community Scale Solar	New System	119	kW	862,278	11,523	258,683	\$ 37,910	\$ 923,594	24.4	Utility, IPP, Tribe
Community Scale Wind	Upgrade existing	100	kW	925,619	9,602	215,570	\$ 54,798	\$ 1,446,950	26.4	Utility, IPP
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	% target for efficiency	862,278	8,560	192,165	\$ 28,161	\$ 698,000	24.8	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	% target for fuel reduction	862,278	768	17,246	\$ 6,318	\$ 50,000	7.9	Utility

Other projects identified by the community but not quantified: where economically viable install heat pumps.

## Pilot Point

### Community Dashboard - Climate Action Plan Projects ("Measures")

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

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**May 1, 2024** - (Tribal Competition) Tribes, Tribal Consortia

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
73	\$ 2.91	10.51	17.3%	482,891	90	\$ 5.80	\$ 0.38	\$ 0.60

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	44	buildings	1,000,884	7,512	168,642	\$ 78,383	\$ 1,584,000	20.2	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	22	buildings	1,487,582	1,487,582	266,973	\$ 69,661	\$ 935,000	13.4	Building Owner
Community Building Energy Efficiency	Building retrofits	10	buildings	898,487	7,522	168,869	\$ 42,757	\$ 500,000	11.7	City, Tribe
Community Scale Solar	New System	138	kW	1,031,485	13,784	309,445	\$ 40,111	\$ 976,286	24.3	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	200	kW	1,215,347	18,378	596,457	\$ 100,982	\$ 2,425,500	24.0	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	% target for line loss	1,031,485	5,192	61,889	\$ 15,108	\$ 75,000	5.0	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	% target for efficiency	1,031,485	11,454	257,134	\$ 33,330	\$ 1,563,000	46.9	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	% target for fuel reduction	1,031,485	919	20,630	\$ 5,330	\$ 50,000	9.4	Utility

**Other projects identified by the community but not quantified:** encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, decrease community waste, ban styrofoam and plastic bags, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, include GHG emission consideration in future decisions of land use and development, encourage community to pass resolution to reach 100% renewable energy by 2050, develop a plan to plant trees, enforce middle level trawlers in the Bering Sea to monitor ocean temps/carbonic acid/oxygen and outlaw bottom trawling, and where economically viable install heat pumps.

## Port Heiden

### Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
106	\$ 3.04	12.11	18.4%	618,080	118	\$ 7.60	\$ 0.33	\$ 0.65

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	50	buildings	1,103,372	8,385	188,239	\$ 105,933	\$ 1,800,000	17.0	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	37	buildings	2,188,455	2,188,455	417,662	\$ 141,633	\$ 1,572,500	11.1	Building Owner
Community Building Energy Efficiency	Building retrofits	4	buildings	416,704	3,264	73,279	\$ 23,192	\$ 200,000	8.6	City, Tribe
Community Scale Solar	New System	176	kW	1,145,821	15,312	343,746	\$ 46,547	\$ 1,185,083	25.5	Utility, IPP, Tribe
Community Scale Wind	Long term requires feasibility study	200	kW	1,299,777	20,416	612,284	\$ 114,182	\$ 2,480,100	21.7	Utility, IPP
Electric Utility Upgrades - Line Loss	Upgrade existing equipment	6	%, target for line loss	1,145,821	6,329	68,749	\$ 19,240	\$ 75,000	3.9	Utility
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	14	%, target for efficiency	1,145,821	6,890	154,686	\$ 20,946	\$ 610,000	29.1	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	1,145,821	1,021	22,916	\$ 7,758	\$ 75,000	9.7	Utility

Other projects identified by the community but not quantified: where economically viable install heat pumps.

## Portage Creek

### Community Dashboard - Climate Action Plan Projects ("Measures")

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	2	buildings	31,161	278	6,232	\$ 1,326	\$ 72,000	54.3	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Solar	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Heat Recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Other projects identified by the community but not quantified: where economically viable install heat pumps.

## Togiak, Twin Hills\*

### Community Dashboard - Climate Action Plan Projects ("Measures")

\* These communities are represented on a single dashboard because they share an electric utility and are interconnected by an electrical grid, resulting in their Power Cost Equalization (PCE) data being aggregated. The Climate Action Plan utilizes this combined PCE data for establishing baseline and projected reduction of greenhouse gas (GHG) emissions.

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Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
954	\$ 2.82	14.31	3.0%	3,288,032	90	\$ 7.10	\$ 0.26	\$ 0.52

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalents (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	245	buildings	5,814,448	42,903	963,162	\$ 600,456	\$ 8,820,000	14.7	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	Building retrofits	88	buildings	5,552,944	5,552,944	1,028,155	\$ 326,415	\$ 3,740,000	11.5	Building Owner
Community Building Energy Efficiency	Building retrofits	25	buildings	2,848,917	21,490	482,444	\$ 139,430	\$ 1,250,000	9.0	City, Tribe
Community Scale Solar	One, new system	938	kW	5,158,373	68,931	1,547,512	\$ 194,387	\$ 4,175,836	21.5	Utility, IPP, Tribe
Community Scale Wind	One, new system	1000	kW	5,884,429	91,909	2,789,405	\$ 488,804	\$ 6,175,500	12.6	Utility, IPP
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	Upgrade existing equipment	equipment needs for future renewable integration	N/A	5,158,373	N/A	N/A	N/A	\$ 238,000	N/A	Utility
Electric Utility Upgrades - Heat Recovery	Upgrade existing equipment	10	%, target for fuel reduction	5,158,373	4,595	103,167	\$ 32,628	\$ 100,000	3.1	Utility

**Other projects identified by the community but not quantified:** encourage composting in homes and businesses, adopt community wide composting program, increase compost dropoff locations, decrease community waste, ban styrofoam and plastic bags, increase education and awareness around recycling, expand recyclable material collection and resources, develop a robust and sustainable food economy to increase availability of local food, include GHG emission consideration in future decisions of land use and development, encourage community to pass resolution to reach 100% renewable energy by 2050, reduce energy usage in homes, develop a plan to plant trees, and where economically viable install heat pumps.

# Ugashik

## Community Dashboard - Climate Action Plan Projects ("Measures")

The EPA's Climate Pollution Reduction Grants (CPRG) program supports creating and executing plans to cut GHG emissions. It is structured in two phases: Planning Grants and Implementing Grants. Planning grants were distributed based on a non-competitive formula to help develop Priority and Comprehensive Climate Action Plans (PCAP and CCAP respectively), with the PCAP measures being essential for applying for an Implementation Grant. The PCAP is crucial for accessing Implementation Grant funding, demanding thorough data analysis on projected outcomes like GHG reductions, energy savings, cost efficiency and environmental and social impacts. However, the reduced funding and tight timelines challenge the comprehensive data collection and analysis needed for effective Climate Action Planning. **The PCAP measures listed in the table below are eligible for inclusion in an Implementation Grant application.**

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The following were collected from 2022 AEA PCE report, or the most recent full reporting year, to calculate GHG emissions, gallons and costs in the measures/projects identified for your community.

Population	Utility Fuel Price (\$/gal)	Utility Diesel Efficiency (kWh/gal)	Utility Line Loss	Utility Total kWh	Peak Load (kW)	Residential Fuel Price (\$/gal)	PCE Rate for Residences and Community Buildings (\$/kWh)	Full Electric Rate for Commercial Buildings (\$/kWh)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA CPRG Measure	Project Description	Project Target	Units	Baseline Annual GHG Emissions (lbs)	Annual Diesel Fuel Reduction Equivalent (gal)	Annual GHG Emissions Reductions (lbs)	Estimated Annual Cost Savings	Estimated Total Cost to Implement	Simple Payback (years)	Authority to Implement
Residential Energy Efficiency	Individual home retrofits	23	buildings	358,347	3,192	71,669	\$ 18,516	\$ 828,000	44.7	Housing Authority, Tribe, City
Commercial Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Building Energy Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Solar	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Community Scale Wind	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Line Loss	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Efficiency Upgrades - Gen Sets & Controls	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Electric Utility Upgrades - Heat Recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Other projects identified by the community but not quantified: where economically viable install heat pumps.**