

ALASKA ENERGY AUTHORITY

RESOLUTION NO. 2023-01

**RESOLUTION OF THE ALASKA ENERGY AUTHORITY
RATIFYING GOVERNORS SUBMISSION OF FY24
OPERATING BUDGET & CAPITAL BUDGET**

WHEREAS, the operating and capital budget of the Alaska Energy Authority (“the Authority”) are subject to the Executive Budget Act;

WHEREAS, the FY24 operating and capital budget submissions for the Authority are included in the Governor’s State operating and capital budget submissions to the Alaska State Legislature (“the Legislature”) and are set out in Attachment A;

WHEREAS, the Governor’s State operating and capital budget submissions, including the Authority’s operating and capital budget submissions, are subject to appropriation by the Legislature; and

WHEREAS, the Board provides oversight for the Authority and its finances.

NOW, THEREFORE, BE IT RESOLVED BY THE ALASKA ENERGY AUTHORITY AS FOLLOWS:

Section 1. The Authority’s FY24 operating and capital budget submissions are ratified by the Board. The final FY24 operating and capital budget are subject to approval and appropriation by the Legislature.

Dated at Anchorage, Alaska, this 18th day of January 2023.



J. Dana Pruhs, Chair



Curtis W. Thayer, Secretary



Attachment A

Component Detail (1077)

Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Owned Facilities (2599)

Non-Formula Component

RDU: Alaska Energy Authority (453)

IRIS AP Type: DA14

	FY2022 Actuals (19759)	FY2023 Conference Committee (19367)	FY2023 Authorized (19382)	FY2023 Management Plan (19404)	FY2024 Governor (19867)	FY2023 Management Plan vs FY2024 Governor	
1000 Personal Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
2000 Travel	0.0	30.0	30.0	22.5	22.5	0.0	0.0%
3000 Services	0.0	737.7	738.3	745.8	745.8	0.0	0.0%
4000 Commodities	0.0	8.0	8.0	8.0	8.0	0.0	0.0%
5000 Capital Outlay	0.0	5.0	5.0	5.0	5.0	0.0	0.0%
7000 Grants, Benefits	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
8000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Totals	0.0	780.7	781.3	781.3	781.3	0.0	0.0%
<u>Funding Sources:</u>							
1107 AEA Rcpts (Other)	0.0	780.7	781.3	781.3	781.3	0.0	0.0%
<u>Funding Totals:</u>							
Unrestricted General (UGF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Designated General (DGF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Other	0.0	780.7	781.3	781.3	781.3	0.0	0.0%
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<u>Positions:</u>							
Permanent Full Time	0	0	0	0	0	0	0.0%
Permanent Part Time	0	0	0	0	0	0	0.0%
Non Permanent	0	0	0	0	0	0	0.0%

Component Detail (1077)

Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Rural Energy Assistance (2600)

Non-Formula Component

RDU: Alaska Energy Authority (453)

IRIS AP Type: DA15

	FY2022 Actuals (19759)	FY2023 Conference Committee (19367)	FY2023 Authorized (19382)	FY2023 Management Plan (19404)	FY2024 Governor (19867)	FY2023 Management Plan vs FY2024 Governor	
1000 Personal Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
2000 Travel	0.0	104.8	104.8	149.3	149.3	0.0	0.0%
3000 Services	0.0	5,255.5	5,269.9	5,225.4	6,496.5	1,271.1	24.3%
4000 Commodities	0.0	48.0	48.0	48.0	98.0	50.0	104.2%
5000 Capital Outlay	0.0	10.0	10.0	10.0	10.0	0.0	0.0%
7000 Grants, Benefits	0.0	100.0	100.0	100.0	100.0	0.0	0.0%
8000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Totals	0.0	5,518.3	5,532.7	5,532.7	6,853.8	1,321.1	23.9%
<u>Funding Sources:</u>							
1002 Fed Rcpts (Fed)	0.0	1,202.0	1,208.6	1,208.6	1,208.6	0.0	0.0%
1004 Gen Fund (UGF)	0.0	847.3	852.2	852.2	1,215.3	363.1	42.6%
1005 GF/Prgm (DGF)	0.0	50.0	50.0	50.0	50.0	0.0	0.0%
1007 I/A Rcpts (Other)	0.0	123.9	124.3	124.3	124.3	0.0	0.0%
1061 CIP Rcpts (Other)	0.0	1,767.8	1,769.4	1,769.4	2,727.4	958.0	54.1%
1062 Power Proj (DGF)	0.0	995.5	996.4	996.4	996.4	0.0	0.0%
1108 Stat Desig (Other)	0.0	150.0	150.0	150.0	150.0	0.0	0.0%
1169 PCE Endow (DGF)	0.0	381.8	381.8	381.8	381.8	0.0	0.0%
<u>Funding Totals:</u>							
Unrestricted General (UGF)	0.0	847.3	852.2	852.2	1,215.3	363.1	42.6%
Designated General (DGF)	0.0	1,427.3	1,428.2	1,428.2	1,428.2	0.0	0.0%
Other	0.0	2,041.7	2,043.7	2,043.7	3,001.7	958.0	46.9%
Federal	0.0	1,202.0	1,208.6	1,208.6	1,208.6	0.0	0.0%
<u>Positions:</u>							
Permanent Full Time	0	0	0	0	0	0	0.0%
Permanent Part Time	0	0	0	0	0	0	0.0%
Non Permanent	0	0	0	0	0	0	0.0%

Component Detail (1077)

Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Power Cost Equalization (2602)

Formula Component

RDU: Alaska Energy Authority (453)

IRIS AP Type: DA26

	FY2022 Actuals (19759)	FY2023 Conference Committee (19367)	FY2023 Authorized (19382)	FY2023 Management Plan (19404)	FY2024 Governor (19867)	FY2023 Management Plan vs FY2024 Governor	
1000 Personal Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
2000 Travel	0.0	0.0	0.0	2.2	2.2	0.0	0.0%
3000 Services	0.0	355.0	355.0	352.8	586.7	233.9	66.3%
4000 Commodities	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
5000 Capital Outlay	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
7000 Grants, Benefits	0.0	32,000.0	47,694.8	47,694.8	47,694.8	0.0	0.0%
8000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Totals	0.0	32,355.0	48,049.8	48,049.8	48,283.7	233.9	0.5%
<u>Funding Sources:</u>							
1169 PCE Endow (DGF)	0.0	32,355.0	48,049.8	48,049.8	48,283.7	233.9	0.5%
<u>Funding Totals:</u>							
Unrestricted General (UGF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Designated General (DGF)	0.0	32,355.0	48,049.8	48,049.8	48,283.7	233.9	0.5%
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<u>Positions:</u>							
Permanent Full Time	0	0	0	0	0	0	0.0%
Permanent Part Time	0	0	0	0	0	0	0.0%
Non Permanent	0	0	0	0	0	0	0.0%

Component Detail (1077)

Department of Commerce, Community, and Economic Development

Component: Statewide Project Development, Alternative Energy and Efficiency (2888)

Non-Formula Component

RDU: Alaska Energy Authority (453)

IRIS AP Type: DA17

	FY2022 Actuals (19759)	FY2023 Conference Committee (19367)	FY2023 Authorized (19382)	FY2023 Management Plan (19404)	FY2024 Governor (19867)	FY2023 Management Plan vs FY2024 Governor	
1000 Personal Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
2000 Travel	0.0	0.0	0.0	22.1	22.1	0.0	0.0%
3000 Services	0.0	2,200.0	2,201.9	2,179.8	2,179.8	0.0	0.0%
4000 Commodities	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
5000 Capital Outlay	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
7000 Grants, Benefits	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
8000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Totals	0.0	2,200.0	2,201.9	2,201.9	2,201.9	0.0	0.0%
<u>Funding Sources:</u>							
1061 CIP Rcpts (Other)	0.0	800.0	800.7	800.7	800.7	0.0	0.0%
1210 Renew Ener (DGF)	0.0	1,400.0	1,401.2	1,401.2	1,401.2	0.0	0.0%
<u>Funding Totals:</u>							
Unrestricted General (UGF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Designated General (DGF)	0.0	1,400.0	1,401.2	1,401.2	1,401.2	0.0	0.0%
Other	0.0	800.0	800.7	800.7	800.7	0.0	0.0%
Federal	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<u>Positions:</u>							
Permanent Full Time	0	0	0	0	0	0	0.0%
Permanent Part Time	0	0	0	0	0	0	0.0%
Non Permanent	0	0	0	0	0	0	0.0%

Change Record Detail - Multiple Scenarios with Descriptions (294)
Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Owned Facilities (2599)
RDU: Alaska Energy Authority (453)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		
										PFT	PPT	NP
***** Changes From FY2023 Conference Committee To FY2023 Authorized *****												
FY2023 Conference Committee												
ConfCom		780.7	0.0	30.0	737.7	8.0	5.0	0.0	0.0	0	0	0
1107 AEA Rcpts		780.7										
Transfer Unallocated Rate Adjustments to AEA Owned Facilities												
Unalloc		0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0	0	0
1107 AEA Rcpts		0.6										
Subtotal		781.3	0.0	30.0	738.3	8.0	5.0	0.0	0.0	0	0	0
***** Changes From FY2023 Authorized To FY2023 Management Plan *****												
Align Authority with Anticipated Expenditures												
LIT		0.0	0.0	-7.5	7.5	0.0	0.0	0.0	0.0	0	0	0
Align authorization for anticipated expenditures in the travel line, consistent with the FY2023 Travel Plan.												
Subtotal		781.3	0.0	22.5	745.8	8.0	5.0	0.0	0.0	0	0	0
***** Changes From FY2023 Management Plan To FY2024 Governor *****												
Totals		781.3	0.0	22.5	745.8	8.0	5.0	0.0	0.0	0	0	0

Change Record Detail - Multiple Scenarios with Descriptions (294)
Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Rural Energy Assistance (2600)
RDU: Alaska Energy Authority (453)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	PFT	Positions PPT	NP
***** Changes From FY2023 Conference Committee To FY2023 Authorized *****												
FY2023 Conference Committee	ConfCom	5,518.3	0.0	104.8	5,255.5	48.0	10.0	100.0	0.0	0	0	0
1002 Fed Rcpts		1,202.0										
1004 Gen Fund		847.3										
1005 GF/Prgm		50.0										
1007 I/A Rcpts		123.9										
1061 CIP Rcpts		1,767.8										
1062 Power Proj		995.5										
1108 Stat Desig		150.0										
1169 PCE Endow		381.8										
Transfer Unallocated Rate Adjustments to AEA Rural Energy Assistance	Unalloc	14.4	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0	0	0
1002 Fed Rcpts		6.6										
1004 Gen Fund		4.9										
1007 I/A Rcpts		0.4										
1061 CIP Rcpts		1.6										
1062 Power Proj		0.9										
Subtotal		5,532.7	0.0	104.8	5,269.9	48.0	10.0	100.0	0.0	0	0	0
***** Changes From FY2023 Authorized To FY2023 Management Plan *****												
Align Authority with Anticipated Expenditures	LIT	0.0	0.0	44.5	-44.5	0.0	0.0	0.0	0.0	0	0	0
Align authorization for anticipated expenditures in the travel line, consistent with the FY2023 Travel Plan.												
Subtotal		5,532.7	0.0	149.3	5,225.4	48.0	10.0	100.0	0.0	0	0	0
***** Changes From FY2023 Management Plan To FY2024 Governor *****												
Executive Health Insurance, SBS, and Risk Management Rate Changes	IncM	67.2	0.0	0.0	67.2	0.0	0.0	0.0	0.0	0	0	0
1004 Gen Fund		67.2										
In FY2023 the Office of Management and Budget calculated increments for increases charged to departments for exempt positions health insurance. Through that calculation the Alaska Energy Authority (AEA) was inadvertently excluded. This change adds general fund to support increased costs that will be passed through to AEA.												
FY23 Exempt 5% COLA Increase	IncM	295.9	0.0	0.0	295.9	0.0	0.0	0.0	0.0	0	0	0
1004 Gen Fund		295.9										
In FY2023 the Office of Management and Budget calculated increments for increases charged to departments for exempt positions salary increases. Through												

Change Record Detail - Multiple Scenarios with Descriptions (294)
Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Rural Energy Assistance (2600)
RDU: Alaska Energy Authority (453)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		
										PFT	PPT	NP
that calculation the Alaska Energy Authority (AEA) was inadvertently excluded. This change adds general fund to support increased costs that will be passed through to AEA.												
Infrastructure Investment and Jobs Act (IIJA) Staff Support (FY2024-FY2027)												
1061 CIP Rcpts	IncT	958.0	0.0	0.0	908.0	50.0	0.0	0.0	0.0	0	0	0
The Alaska Energy Authority (AEA) received multiple capital appropriations in the FY2023 budget related to the Infrastructure Investment and Jobs Act (IIJA) bill. This change adds five positions and associated costs to support IIJA programs. Positions will be funded from capital improvement project receipts received in AEA and passed through to the Alaska Industrial Development and Export Authority (AIDEA) as inter-agency receipts to fund positions.												
The following positions are added: Full-time Project Manager (08-#059), range 24, located in Anchorage Full-time Project Manager (08-#060), range 24, located in Anchorage Full-time Contracting Officer (08-#061), range 20, located in Anchorage Full-time Senior Accountant (08-#062), range 18, located in Anchorage Full-time Grant Coordinator (08-#063), range 18, located in Anchorage												
Personal Services in the Services line: \$704.0 (personal services costs reflected in AIDEA) Legal support: \$15.0 Statewide Core Services, \$30.0 per position per year: \$150.0 Office space costs, per year: \$39.0 Commodities costs, \$10.0 per position, one-time: \$50.0												
Totals		6,853.8	0.0	149.3	6,496.5	98.0	10.0	100.0	0.0	0	0	0

Change Record Detail - Multiple Scenarios with Descriptions (294)
Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Power Cost Equalization (2602)
RDU: Alaska Energy Authority (453)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		NP
										PFT	PPT	
***** Changes From FY2023 Conference Committee To FY2023 Authorized *****												
FY2023 Alaska Energy Authority Power Cost Equalization and Allocation Sec64(d) Ch11 SLA2022 P172 L20 (HB281)												
(Language)	ConfC(L)	32,355.0	0.0	0.0	355.0	0.0	0.0	32,000.0	0.0	0	0	0
1169 PCE Endow		32,355.0										
Sec64(d) The amount necessary for the purposes specified in AS 42.45.085(a), estimated to be \$32,355,000, not to exceed the amount determined under AS 42.45.080(c)(1), is appropriated from the power cost equalization endowment fund (AS 42.45.070(a)) to the Department of Commerce, Community, and Economic Development, Alaska Energy Authority, power cost equalization allocation, for the fiscal year ending June 30, 2023.												
Pwr Cost Eq: Raise, Endow Fund Investment Ch39 SLA2022 (SB243) (Sec2 Ch11 SLA2022 P50 L26 (HB281))												
	FisNot	15,694.8	0.0	0.0	0.0	0.0	0.0	15,694.8	0.0	0	0	0
1169 PCE Endow		15,694.8										
Subtotal		48,049.8	0.0	0.0	355.0	0.0	0.0	47,694.8	0.0	0	0	0
***** Changes From FY2023 Authorized To FY2023 Management Plan *****												
Align Authority with Anticipated Expenditures												
	LIT	0.0	0.0	2.2	-2.2	0.0	0.0	0.0	0.0	0	0	0
Align authorization for anticipated expenditures in the travel line, consistent with the FY2023 Travel Plan.												
Subtotal		48,049.8	0.0	2.2	352.8	0.0	0.0	47,694.8	0.0	0	0	0
***** Changes From FY2023 Management Plan To FY2024 Governor *****												
Reverse FY2023 Alaska Energy Authority Power Cost Equalization and Allocation												
(Language)	OTI	-32,355.0	0.0	0.0	-355.0	0.0	0.0	-32,000.0	0.0	0	0	0
1169 PCE Endow		-32,355.0										
The amount necessary for the purposes specified in AS 42.45.085(a), estimated to be \$32,355,000, not to exceed the amount determined under AS 42.45.080(c)(1), is appropriated from the power cost equalization endowment fund (AS 42.45.070(a)) to the Department of Commerce, Community, and Economic Development, Alaska Energy Authority, power cost equalization allocation, for the fiscal year ending June 30, 2023.												
Reverse Pwr Cost Eq: Raise, Endow Fund Investment Ch39 SLA2022 (SB243) (Sec2 Ch11 SLA2022 P50 L26 (HB281))												
	FNOTI	-15,694.8	0.0	0.0	0.0	0.0	0.0	-15,694.8	0.0	0	0	0
1169 PCE Endow		-15,694.8										
Reverse Pwr Cost Eq: Raise, Endow Fund Investment Ch39 SLA2022 (SB243) (Sec2 Ch11 SLA2022 P50 L26 (HB281))												
Power Cost Equalization Technician Support and Administrative Cost Increases												
	Inc	233.9	0.0	0.0	233.9	0.0	0.0	0.0	0.0	0	0	0
1169 PCE Endow		233.9										

The Power Cost Equalization Technician will assist in training to communities in rural Alaska and to update the inventory of community buildings. The full cost of

Change Record Detail - Multiple Scenarios with Descriptions (294)
Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Power Cost Equalization (2602)
RDU: Alaska Energy Authority (453)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		
										PFT	PPT	NP
this position is estimated \$106.8.												
The remaining \$127.1 is needed for shared services and other administrative costs which over the years have increased without an increase in authorization.												
FY2024 Alaska Energy Authority Power Cost Equalization and Allocation												
(Language)	IncM	48,049.8	0.0	0.0	355.0	0.0	0.0	47,694.8	0.0	0	0	0
1169 PCE Endow		48,049.8										
The amount necessary for the purposes specified in AS 42.45.085(a), estimated to be \$48,049,800, not to exceed the amount determined under AS 42.45.080(c)(1), is appropriated from the power cost equalization endowment fund (AS 42.45.070(a)) to the Department of Commerce, Community, and Economic Development, Alaska Energy Authority, power cost equalization allocation, for the fiscal year ending June 30, 2024.												
Totals		48,283.7	0.0	2.2	586.7	0.0	0.0	47,694.8	0.0	0	0	0

Change Record Detail - Multiple Scenarios with Descriptions (294)
Department of Commerce, Community, and Economic Development

Component: Statewide Project Development, Alternative Energy and Efficiency (2888)
RDU: Alaska Energy Authority (453)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		NP
										PFT	PPT	
***** Changes From FY2023 Conference Committee To FY2023 Authorized *****												
FY2023 Conference Committee												
	ConfCom	2,200.0	0.0	0.0	2,200.0	0.0	0.0	0.0	0.0	0	0	0
1061 CIP Rcpts		800.0										
1210 Renew Ener		1,400.0										
Transfer Unallocated Rate Adjustments to AEA Alternative Energy & Energy Conservation												
	Unalloc	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0	0	0
1061 CIP Rcpts		0.7										
1210 Renew Ener		1.2										
Subtotal		2,201.9	0.0	0.0	2,201.9	0.0	0.0	0.0	0.0	0	0	0
***** Changes From FY2023 Authorized To FY2023 Management Plan *****												
Align Authority with Anticipated Expenditures												
	LIT	0.0	0.0	22.1	-22.1	0.0	0.0	0.0	0.0	0	0	0
Align authorization for anticipated expenditures in the travel line, consistent with the FY2023 Travel Plan.												
Subtotal		2,201.9	0.0	22.1	2,179.8	0.0	0.0	0.0	0.0	0	0	0
***** Changes From FY2023 Management Plan To FY2024 Governor *****												
Totals		2,201.9	0.0	22.1	2,179.8	0.0	0.0	0.0	0.0	0	0	0

ALASKA ENERGY AUTHORITY
Governor's Proposed Capital Budget - FY2024
Updated December 19, 2022

FY2024					
Project Name	State Funding Request	Federal Receipt Authority	Total	Fund Code	Brief Summary
Electrical Emergency Response	\$ 200,000		\$ 200,000	1004 - General Fund	Critical to rural communities - provides technical support when an electrical utility has lost, or will lose the ability to generate or transmit power. AS42.45.900
Rural Power Systems Upgrades (state dollars are matching funds)	\$ 7,500,000	\$ 25,000,000	\$ 32,500,000	1002 - Fed Receipts /1003 G/F Match	Electric utility systems are part of the basic infrastructure of rural communities. New power systems are designed to meet accepted utility standards for safety, reliability, and environmental protections.
Bulk Fuel Upgrades (state dollars are matching funds)	\$ 5,500,000	\$ 7,500,000	\$ 13,000,000	1002 - Fed Receipts / 1003 G/F Match	Bulk fuel tank farm upgrades. Replaces aging tanks that may be leaking. Adds capacity to meet community needs. Meets code compliance standards improving life, health, and safety of community.
Hydroelectric Development	\$ 5,000,000	\$ -	\$ 5,000,000	1004 - UGF	Review and study of 2 major hydroelectric sites: 1) Dixon Diversion and 2) Godwin Creek.
Renewable Energy & Efficiency Programs (AEEE)	\$ 5,000,000	\$ -	\$ 5,000,000	1004 - UGF	Program support and federal match for AEA's renewable energy & efficiency programs (biomass, efficiency, EV, energy storage, geothermal, heat recovery, hydroelectric, solar, wind and nuclear).
Grants to Named Recipient (AS 37.05.316) Three-Phase Power Extensions and Upgrades to Delta Farm Region and Co-op	\$ 3,000,000	\$ -	\$ 3,000,000	1004 - UGF	Provides \$3 million to GVEA for the purpose of extending three-phase power throughout the Delta region to enhance production, incentivize expansion, and lower input costs for producers as well as customers.
IIJA - Statewide Grid Resilience and Reliability	\$ 1,816,579	\$ 12,110,523	\$ 13,927,102	1002 - Fed Receipts / 1003 G/F Match	IIJA - Section 40101 (d) - formula grant program to strengthen and modernize America's power grid against wildfire, extreme weather, and other natural disasters. Improve resilience of the electric grid against disruptive events. Funding over five years to total over \$60M.
IIJA - Electric Vehicle Charging Equipment Deployment - Competitive	\$ -	\$ 1,670,000	\$ 1,670,000	1002 Fed Receipts	IIJA - Competitive application submitted November 2022. Goals of the project are to increase access to vehicle electrification in multiple rural and underserved communities across Alaska; demonstrate the value of EV; and support development of community charging equipment. 20% match is required - to be shared by Project Partners and AEA as needed.
IIJA - New Energy Auditor Training - Formula	\$ -	\$ 63,600	\$ 63,600	1002 Fed Receipts	Training for energy audits of commercial and residential buildings. AEA will RSA with AHFC.
TOTALS	\$ 28,016,579	\$ 46,344,123	\$ 74,360,702		

FY2023 Supplemental Request - Pending Release January 2023					
Project Name	State Funding Request	Federal Receipt Authority	Total	Fund Code	Brief Summary
IIJA State Energy Program - Formula - 40109 IIJA	\$ -	\$ 2,865,930	\$ 2,865,930	1002 Fed Receipts	USDOE SEP formula funds to develop and implement clean energy programs and projects. Lump sum of \$3,661,930 for AEA less \$796,000 federal receipt authorization received in FY23 = balance requested in FY24. Application submitted December 2022.
Defense Community Infrastructure Pilot Program - Black Rapids Training Site in Delta Junction	\$ -	\$ 12,752,540	\$ 12,752,540	1002 Fed Receipts	Extension of an electric power line to the Black Rapids Training Site. AEA partnership with GVEA. No state match is required. GVEA has committed funds to complete the project.
TOTALS	\$ -	\$ 15,618,470	\$ 15,618,470		

TOTAL ALL	\$ 28,016,579	\$ 61,962,593	\$ 89,979,172		
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AP/AL: Appropriation **Project Type:** Energy
Category: Development
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Curtis W. Thayer
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)771-3000

Brief Summary and Statement of Need:

The Alaska Energy Authority's (AEA) Electrical Emergencies Program is critical to rural communities. Electrical emergencies can result in the loss of communications, lights, refrigeration systems, washeterias, water and sewer systems, and the use of other basic infrastructure and equipment. The program contributes to the Department of Commerce, Community, and Economic Development's mission of promoting a healthy economy and strong communities, as electricity is considered essential for both community development and economic growth.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,200,000
Total:	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,200,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

- Sec11 Ch11 SLA2022 P85 L15 HB281 \$200,000
- Sec11 Ch1 SLA2021 P103 L18 HB69 \$200,000
- Sec1 Ch19 SLA2018 P2 L20 SB142 \$330,000
- Sec12 Ch1 SLA2017 P16 L30 SB23 \$330,000
- Sec27 Ch38 SLA2015 P27 L16 SB26 \$330,000
- Sec1 Ch18 SLA2014 P3 L6 SB119 \$330,000
- Sec1 Ch17 SLA2012 P6 L11 SB160 \$330,000
- Sec4 Ch5 SLA2011 P127 L19 SB46 \$330,000

Project Description/Justification:

The Electrical Emergencies Program often involves a life or safety issue and is the last resort for communities with an electrical emergency. This program provides support when an electric utility has lost or will lose the ability to generate or transmit power to its customers and the condition is a threat to life, health, and/or property. Funding provides the current level of technical support through the Electrical Emergencies Program.

Power outages are expensive and compromise public safety. Some risks include:

- Water and sewer systems freezing and bursting
- Fire hazards
- Medical clinics and other public facilities closing

Electrical emergencies may involve power plant failures and/or distribution system failures.

If the Alaska Energy Authority (AEA) is unable to respond, the response to loss of power emergencies will be redirected to the Department of Military and Veterans Affairs, Division of Homeland Security and Emergency Management, State Emergency Operations Center (SEOC).

AEA received \$200,000 in the FY2023 budget and anticipates funds will be depleted or nearly depleted by the beginning of FY2024.

AP/AL: Appropriation **Project Type:** Energy
Category: Development
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Curtis W. Thayer
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)771-3000

Brief Summary and Statement of Need:

The Rural Power System Upgrades (RPSU) program invests \$35 million in rural communities in FY2024. Electric utility systems are essential infrastructure in rural communities. New power systems are designed to meet accepted utility standards for safety, reliability, and environmental protections. Upgrading rural power generation and distribution systems includes more than the replacement of entire facilities. As funding availability diminishes, emphasis on maintenance, improvement projects, training for operations, and planned maintenance have become critical.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1002 Fed Rcpts	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$150,000,000
1003 G/F Match	\$7,500,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$57,500,000
Total:	\$32,500,000	\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000	\$35,000,000	\$207,500,000

<input checked="" type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> Ongoing
20% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

Sec11 Ch11 SLA2022 P85 L20 HB281 \$20,000,000
 Sec8 Ch1 SLA2021 P70 L21 HB69 \$17,500,000
 Sec5 Ch8 SLA2020 P64 L17 HB205 \$17,500,000
 Sec1 Ch19 SLA2018 P2 L22 SB142 \$21,900,000
 Sec1 Ch2 SLA2016 P2 L20 SB138 \$1,446,142
 Sec18 Ch2 SLA2016 P35 L28 SB138 \$1,053,858
 Sec1 Ch18 SLA2014 P6 L9 SB119 \$5,120,000
 Sec1 Ch16 SLA2013 P4 L18 SB18 \$10,800,000
 Sec1 Ch17 SLA2012 P6 L13 SB160 \$13,000,000

Project Description/Justification:

The Alaska Energy Authority (AEA) is working in partnership with the Denali Commission for the FY2024 work plan to identify projects for funding. The projects preliminarily identified are the following communities: Red Devil, Karluk, Chalkytsik, and Koyukuk. The AEA and the Denali Commission will continue to refine project selection and cost estimates.

In FY2024 it is anticipated that federal receipt authority will be required for new funding sources such as USDA High Cost of Energy Grants and others.

State funds are used to leverage federal funds to expand the number of communities served by this program which advances sustainable, efficient energy infrastructure projects that decrease energy costs in rural Alaska over the long term.

State matching funds are required for Denali Commission funded construction projects, 20 percent for distressed communities and 50 percent for non-distressed communities. The distressed community list is maintained by the Denali Commission.

This program concentrates on power production and delivery, including diesel powerhouse, heat recovery, and electrical distribution. Efficiency, reliability, safety, and sustainability are primary drivers throughout the conceptual design, final design, and construction process.

After completion of the project, the rural utility is required to employ a qualified operator to ensure that the system is properly operated and maintained. The AEA provides training and technical assistance to assist the community with proper operation of the new facility.

This program began in 1997 and has expanded since FY1999 with federal funding from the Denali Commission. Since FY2011, any available federal funds for construction projects now require a 20 percent - 50 percent match, depending on whether the community is considered distressed.

The deferred maintenance need for RPSU is estimated at approximately \$327 million.

Alaska Energy Authority - Bulk Fuel Upgrades

FY2024 Request: \$13,000,000
Reference No: 49734

AP/AL: Appropriation **Project Type:** Energy
Category: Development
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Curtis W. Thayer
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)771-3000

Brief Summary and Statement of Need:

The Bulk Fuel Upgrades (BFU) program will invest \$13 million in rural Alaska in FY2024. The BFU program upgrades non-compliant bulk fuel tank farms in rural communities. This project reduces the cost of energy by reducing or eliminating fuel loss from leaks, spills, or catastrophic failure. By providing enough capacity for current and planned needs, communities may purchase fuel in larger quantities at a lower cost per gallon. Projects ensure facilities meet code compliance standards improving life, health, and safety of the community.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1002 Fed Rcpts	\$7,500,000	\$7,500,000	\$7,500,000	\$7,500,000	\$7,500,000	\$7,500,000	\$45,000,000
1003 G/F Match	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$33,000,000
Total:	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	\$78,000,000

<input checked="" type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> Ongoing
20% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

- Sec11 Ch11 SLA2022 P85 L13 HB281 \$13,000,000
- Sec8 Ch19 SLA2021 P70 L19 HB69 \$13,000,000
- Sec1 Ch19 SLA2018 P2 L19 SB142 \$17,000,000
- Sec1 Ch1 SLA2017 P2 L22 SB23 \$2,420,000
- Sec1 Ch2 SLA2016 P2 L18 SB138 \$1,300,000
- Sec1 Ch18 SLA2014 P3 L33 SB119 \$7,300,000
- Sec1 Ch16 SLA2013 P4 L14 SB18 \$6,000,000
- Sec1 Ch17 SLA2012 P6 L9 SB160 \$7,000,000

Declining funds available for bulk fuel upgrades in rural Alaska means that bulk fuel tanks are not upgraded timely. As a result, communities are left with aging fuel tanks that may not meet the capacity needs of the community or are at risk of leaks, contamination, and/or failure. Recent emphasis has also been put on barge header projects to protect river and ocean side fuel systems.

Project Description/Justification:

This request includes federal receipt authority and state funds for bulk fuel tank farm upgrades.

The AEA is working in partnership with the Denali Commission on the FY2024 work plan to prioritize project selection. The projects preliminarily identified for construction are in the following communities: Scammon Bay, Ekwok, Shageluk and Birch Creek. The AEA and the Denali Commission will continue to refine the project selection and cost estimates over the following months.

State funds are used to leverage federal funds to expand the number of communities served by this program, which advances sustainable, efficient energy infrastructure projects that decrease energy costs in rural Alaska.

State matching funds are required for Denali Commission funded construction projects, 20 percent for distressed communities and 50 percent for non-distressed communities. The distressed community list is maintained by the Denali Commission.

Most of the rural tank farms have serious deficiencies that typically include:

- Inadequate dikes to contain fuel spills
- Inadequate foundations, which could cause gradual tank movement and fuel leakage
- Improper piping systems and joints, which are the most common source of fuel leaks
- Improper siting near wells, beaches, and buildings, or within a flood plain
- Tanks that are rusted or damaged beyond repair
- Electrical code violations
- Inadequate security

The deferred maintenance need for BFU is estimated at approximately \$864 million.

Denali Commission has provided \$480,000 in funding to AEA to begin an inventory and assessment of eligible rural bulk fuel facilities per 3 AAC 108.110 (b), (d), and (e). This will be a multi-year effort and provide accurate information regarding the condition of bulk fuel facilities which will enable the same benefits realized from the power systems inventory and assessment. In addition to the normal gathering and assessment of technical data, full three-dimensional (3D) imagery of the bulk fuel facility will be captured.

The AEA now uses 3D imaging and Geographic Information System (GIS) software to capture imagery, collect measurements, and process data to create, edit and share 3D renderings of rural bulk fuel facilities. This will be used for construction management, operator training, and remote assistance. The 3D platform enables AEA project managers to keep track of key project milestones and immediately assess project information. The targeted result is accelerated productivity, decision-making, and cost savings. Additionally, this information will be coordinated with the United States Coast Guard to improve compliance of the facilities. State matching funds will be required in future years.

AP/AL: Appropriation
Category: Development
Location: Statewide
Impact House District: Statewide (HD 1-40)
Estimated Project Dates: 07/01/2023 - 06/30/2028

Project Type: Energy
House District: Statewide (HD 1-40)
Contact: Curtis W. Thayer
Contact Phone: (907)771-3000

Brief Summary and Statement of Need:

The Bradley Lake Hydroelectric Project (Bradley Lake) has been a low-cost source of electricity for the Railbelt for more than 30 years. The Alaska Energy Authority (AEA) is currently studying new project opportunities at Bradley Lake and a new hydroelectric site at Godwin Creek near Seward. The close distance to Railbelt transmission, water storage, and significant energy makes this project desirable. Engineering and environmental studies are needed to determine the feasibility of these potential projects. Optimizing the energy resource potential at Bradley Lake and adding a new Railbelt hydroelectric project will contribute significant amounts of reliable, low-cost renewable energy into the Railbelt system.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund	\$5,000,000						\$5,000,000
Total:	\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$5,000,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

Project Description/Justification:

The Bradley Lake Project, completed in 1991, is a 120-megawatt (MW) facility that generates about 10 percent of the total annual power used by Railbelt electric utilities and provides some of the lowest-cost power to more than 550,000 Alaskans and “electrifies” 54,000 homes. Following the successful completion of the West Fork Upper Battle Creek Diversion Project in 2020, AEA has identified two major hydroelectric project opportunities: 1) Dixon Diversion Project, which is part of the Bradley Project, potentially could electrify an additional 24-30 thousand homes and 2) Godwin Creek hydroelectric project, near Seward, could potentially electrify an additional 10-20 thousand homes. The combined potential energy of both Dixon and Godwin projects is estimated to be an additional 6 percent - 8 percent of the renewable energy component of the total Railbelt energy.

The development of one or both projects will provide significant energy to the Railbelt system and allow other non-firm renewable generation to be developed for long term lower cost energy and lower

carbon. The funds will be used for engineering studies (feasibility, hydrological, geological) and environmental studies (fisheries, water quality, geomorphology). Estimates for the preliminary studies for the Dixon Diversion are \$12 million and \$1.5 million for Godwin Creek.

Alaska Energy Authority - Renewable Energy and Efficiency Programs

FY2024 Request: \$5,000,000
Reference No: 64641

AP/AL: Appropriation
Category: Development
Location: Statewide

Project Type: Energy

Impact House District: Statewide (HD 1-40)

House District: Statewide (HD 1-40)

Estimated Project Dates: 07/01/2023 - 06/30/2028

Contact: Curtis W. Thayer

Contact Phone: (907)771-3000

Brief Summary and Statement of Need:

Develop the Alaska Energy Authority's (AEA) renewable energy & efficiency programs (biomass, efficiency, electric vehicle, energy storage, geothermal, heat recovery, hydroelectric, solar, wind and nuclear). These programs grow Alaska's clean energy economy. These programs provide critical technical support for communities interested in developing renewable energy and efficiency projects. Funds are used for reconnaissance level studies and feasibility analysis to help identify project locations, and technical assistance and support for utilities and communities interested in developing cost-effective renewable energy and energy efficiency projects. This request leverages federal funds.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund	\$5,000,000						\$5,000,000
Total:	\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$5,000,000

<input checked="" type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> Ongoing
20% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

Sec8 Ch1 SLA2021 P70 L16 HB69 \$5,000,000
 Sec1 Ch16 SLA2013 P4 L11 SB18 \$2,000,000
 Sec1 Ch17 SLA2012 P6 L3 SB160 \$4,800,000
 Sec7 Ch43 SLA2010 P20 L24 SB230 \$8,000,000

Project Description/Justification:

This request helps AEA leverage funding from federal partners such as, but not limited to, the Denali Commission, the United States Department of Energy, and the United States Department of Agriculture. This request is imperative for the continued development of renewable energy fields specific to Alaska. Federal funds typically require a 20 percent state match.

The work conducted with these funds strongly supports the success of the Renewable Energy Fund and supports achieving the 50 percent renewable energy goal as well as the 25 percent reduction in energy usage through efficiency measures.

In addition to providing a "pipeline" of qualified projects to advance towards construction, such as the

Renewable Energy Grant Fund program and the Power Project Fund, this program removes barriers and solves problems in each of the different renewable energy technology types. Each program area works on statewide resource assessments, regulatory and permitting issues, outreach, and stakeholder involvement in order to advance cost-effective renewable energy in Alaska. The programs provide a foundation of support critical to the proper development of renewable energy technologies in Alaska. Each of the renewable technology areas and efficiency have a working group facilitated by AEA that supports the proper application of their technology in both urban and rural communities in the state. These general funds will support the continuation of these programs.

The technology programs include the following focuses and projects:

Biomass: The AEA's biomass energy program focuses on exploring opportunities to increase utilization of wood for energy production throughout the state. The program provides technical assistance, project management, and funding to develop wood-fired systems that displace fuel oil for heating public facilities.

Efficiency: The AEA's energy efficiency program focuses on rural community outreach and education, public buildings, commercial buildings, and public infrastructure such as street lighting and water & sewer infrastructure. AEA's core efficiency program efforts are focused on two primary goals: 1) achieving the most cost-effective energy efficiency gain, and 2) providing services where energy costs are critically high.

Electric Vehicle: The transportation sector is rapidly transitioning to electric vehicles (EVs). These vehicles and their charging infrastructure can bring new industries to Alaska, helping to promote the state economy and save Alaskans money. Alaskans have identified barriers to adoption such as range anxiety and performance in cold climates. The AEA has a mission to lead the effort to minimize barriers that inhibit EV adoption in Alaska and will continue to seek other federal opportunities (IIJA) to help support advancement of this program.

Energy Storage: Energy storage allows for energy from non-firm generation sources such as wind or base load thermal generation sources such as natural gas or coal to be stored for later use. The stored energy is used during periods of high electrical demand to avoid turning on additional generation units or to provide energy when the non-firm source is not generating. Energy storage can be accomplished through the use of several different technologies such as, but not limited to, battery energy storage systems (BESS), water storage, pumped hydro, flywheels, and compressed air. Battery storage can be used in many different ways but typically it is to peak shave, support system stability, or prevent blackouts.

Geothermal: Alaska has 141 volcanoes and over 100 hot springs. Many of these have the potential for providing energy for agriculture, space heating and other power generation purposes.

Heat Recovery and CHP: Combined heat and power (CHP) project development activities, including "waste" heat recovery, are supported through a U.S. Department of Energy (DOE) cost-share program for technical assistance and project development.

Hydroelectric: The hydroelectric program focuses on improving efficiency and quality in hydroelectric development, lowering the cost of construction, and coordinating with state, federal, municipalities,

tribal entities, and private investors in analyzing, planning, and generally assisting hydroelectric project development.

Solar: The AEA provides solar energy information, resources, and technical assistance. The Power Project Fund and the Renewable Energy Fund have provided grant and loan financing for several EV projects on the Railbelt and in rural Alaska.

Wind: Since 2012, Alaska's wind energy capacity has increased 400 percent. This growth is supported by AEA's Renewable Energy Fund and information sharing among wind energy producers and stakeholders. In partnership with the Wind Working Group, AEA facilitates annual educational events including the wind-diesel and energy storage workshops. The AEA assists communities in evaluating wind energy and often aids in rural community decision-making.

Nuclear: The AEA's work in nuclear energy includes general program management, assisting with the Nuclear Roadmap Development, stakeholder engagement, and working with partners like the Alaska Center of Energy and Power.

Three-Phase Power Extensions and Upgrades to Delta Farm Region and Co-Op

FY2024 Request: \$3,000,000
Reference No: 64822

AP/AL: Appropriation
Category: Development
Location: Delta Junction

Project Type: Energy
Recipient: Golden Valley Electric Association
House District: Richardson Hwy/East Mat-Su (HD 9)

Impact House District: Richardson Hwy/East Mat-Su (HD 9)

Contact: Micaela Fowler

Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)465-2506

Brief Summary and Statement of Need:

This appropriation provides a \$3 million grant to the Golden Valley Electric Association for the purpose of extending three-phase power throughout the Delta region to enhance production, incentivize expansion, and lower input costs for producers as well as customers.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund	\$3,000,000						\$3,000,000
Total:	\$3,000,000	\$0	\$0	\$0	\$0	\$0	\$3,000,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Prior Funding History / Additional Information:

Project Description/Justification:

To further food security objectives in Alaska, priorities in the near term will focus on enhancing existing production and incentivizing expansion. Many farms in the Delta region either lack three-phase power or are off the power grid entirely.

The Delta Co-Op is currently served by single phase power but must use a diesel-powered three-phase generator to operate its grain dryer at a dramatically higher cost. By extending three-phase power to the remaining farms that lack three-phase service, along with the Co-Op, this extension and upgrade will lower input costs for producers, prices for their customers, and potentially facilitate expanded use of irrigation and drying equipment.

This project is in Golden Valley Electric Association's service area and the estimated cost is \$3 million to extend and/or upgrade service to the Co-Op, Saw Mill Road, and Cummings Road. Because the Co-Op serves the entire region, expansion of three-phase service will be prioritized for this location.

Alaska Energy Authority - Statewide Grid Resilience and Reliability - IIJA Formula

FY2024 Request: \$13,927,102
Reference No: 64650

AP/AL: Appropriation **Project Type:** Energy
Category: Development
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Curtis W. Thayer
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)771-3000

Brief Summary and Statement of Need:

In support of the Infrastructure Investment and Jobs Act (IIJA) and the Building a Better Grid Initiative, the Department of Energy (DOE) developed a \$2.3 billion formula grant program to strengthen and modernize America’s power grid against wildfires, extreme weather, and other natural disasters. Section 40101 (d) of the IIJA established a formula grant program (Program) providing \$459 million annually over a period of five years to states (and Indian Tribes) to improve the resilience of the electric grid against disruptive events. The DOE’s allocation of funds to the State of Alaska under IIJA 40101(d) is \$12,110,523 annually for five years.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1002 Fed Rcpts	\$12,110,523	\$12,110,523	\$12,110,523	\$12,110,523			\$48,442,092
1003 G/F Match	\$1,816,579	\$1,816,579	\$1,816,579				\$5,449,737
Total:	\$13,927,102	\$13,927,102	\$13,927,102	\$12,110,523	\$0	\$0	\$53,891,829

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

Sec11 Ch11 SLA2022 P85 L10 HB281 \$12,110,523
 Sec35 Ch11 SLA2022 P144 L1 HB281 \$3,633,158

Formula-based funding requires a 15 percent state match and a 33 percent small utility match.

Project Description/Justification:

The Alaska Energy Authority (AEA) is the sole state entity for the state of Alaska to apply for, receive, and administer the IIJA Section 40101(d) federal funds. This request is for the State allocation only and does not include funds allocated to Tribes.

The objective of this program is to improve the resilience of the electric grid against disruptive events. Per IIJA section 40101(a)(1), a disruptive event is “an event in which operations of the electric grid are disrupted, preventively shut off, or cannot operate safely due to extreme weather, wildfire, or a natural disaster.” To achieve this objective, funding provided by DOE under the program may be used to implement a wide range of resilience measures intended to mitigate the impact of

disruptive events, including:

- a) weatherization technologies and equipment;
- b) fire-resistant technologies and fire prevention systems;
- c) monitoring and control technologies;
- d) the undergrounding of electrical equipment;
- e) utility pole management;
- f) the relocation of power lines or the reconductoring of power lines with low-sag, advanced conductors;
- g) vegetation and fuel-load management;
- h) the use or construction of distributed energy resources for enhancing system adaptive capacity during disruptive events, including:
 - a. microgrids; and
 - b. battery-storage subcomponents;
- i) adaptive protection technologies;
- j) advanced modeling technologies;
- k) hardening of power lines, facilities, substations, of other systems; and
- l) the replacement of old overhead conductors and underground cables.

Funding may also be used for the training, recruitment, retention, and retraining of skilled and properly credentialed workers in order to perform the work required for the resilience measures listed above.

Resilience measures that are not allowed under Section 40101(d) include:

- 1. Construction of a new-
 - a. Electric generating facility; or
 - b. Large-scale battery-storage facility that is not used for enhancing system adaptive capacity during disruptive events; or
- 2. Cybersecurity.

For the purpose of implementing eligible resilience measures that achieve the objectives of Section 40101(d), grant funding may be used to issue subawards to eligible entities. Eligible entities include:

- a) an electric grid operator;
- b) an electricity storage operator;
- c) an electricity generator;
- d) a transmission owner or operator;
- e) a distribution provider;
- f) a fuel supplier, and
- g) any other relevant entity, as determined by the Secretary (of DOE).

**Alaska Energy Authority - Electric Vehicle Charging
Equipment Deployment - IIJA Competitive**

**FY2024 Request: \$1,670,000
Reference No: 64644**

AP/AL: Appropriation

Project Type: Energy

Category: Development

Location: Statewide

House District: Statewide (HD 1-40)

Impact House District: Statewide (HD 1-40)

Contact: Curtis W. Thayer

Estimated Project Dates: 07/01/2023 - 06/30/2028

Contact Phone: (907)771-3000

Brief Summary and Statement of Need:

The Alaska Energy Authority (AEA) is applying for federal Infrastructure Investment and Jobs Act (IIJA) funding for Community-Driven Electric Vehicle Charging Deployment in Underserved Communities. The goals of this project are to increase access to vehicle electrification in multiple rural and underserved communities across Alaska; demonstrate the value of electric vehicles (EVs) to key decision makers and the wider public to accelerate the transition to clean transportation; and support the development of community charging equipment. A 20 percent match is required, shared by AEA and project partners.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1002 Fed Rcpts	\$1,670,000						\$1,670,000
Total:	\$1,670,000	\$0	\$0	\$0	\$0	\$0	\$1,670,000

- | | | | | |
|---|---|---------------------------------------|---|----------------------------------|
| <input type="checkbox"/> State Match Required | <input type="checkbox"/> One-Time Project | <input type="checkbox"/> Phased - new | <input type="checkbox"/> Phased - underway | <input type="checkbox"/> Ongoing |
| 0% = Minimum State Match % Required | | <input type="checkbox"/> Amendment | <input type="checkbox"/> Mental Health Bill | |

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

The IIJA funding opportunity is through the Office of Energy Efficiency and Renewable Energy (EERE) Vehicle Technologies Office Program Wide Funding Opportunity Area of Interest (AOI) 9. This request is for federal funding only. Required match will be met through AEA and project partners.

Project Description/Justification:

The Alaska Energy Authority (AEA), as the prime applicant, will work with project partners to support vehicle electrification in rural, low-income, and Tribal communities across the state. The partnerships forged through this project will provide underserved communities with resources and access to EV education and technical support to ensure a more equitable transition to clean transportation. The data and partner experiences developed through this project will be used in a public education and outreach campaign to encourage EV adoption.

Alaska has one of the most undeveloped EV markets in the United States and some of the highest transportation-related costs. Its expansive geography, isolated small population, and cold environment amplify the traditional challenges for EV adoption. Most Alaskans do not have reasonable access to EV charging infrastructure to help increase market adoption. As of August 2022,

**Alaska Energy Authority - Electric Vehicle Charging
Equipment Deployment - IIJA Competitive**

**FY2024 Request: \$1,670,000
Reference No: 64644**

Alaska's average rural electricity rate was six times higher than the national average, and second highest in the country, according to the U.S. Energy Information Administration. The transportation sector accounts for approximately 26.8 percent of the state's energy use, and the costs associated with transportation and energy vary significantly across urban and rural Alaska.

The AEA submitted the Alaska National Electric Vehicle Infrastructure (NEVI) Implementation Plan to the federal Joint Office of Energy and Transportation to capture funds for Direct Current Fast Charging (DCFC) on Alaska's road system. This investment, along with those planned by utilities and municipalities, will begin to provide the fundamental infrastructure for the transition to clean transportation.

The project includes activities and investment in 11 energy regions that are connected by the theme of improving equitable access to Electric Vehicle Supply Equipment (EVSE) within the state of Alaska. The AEA will work closely with partners to maximize public benefit by offering a competitive grant opportunity with targeted outreach for each energy region, similar to the Alaska NEVI Plan, to deploy Level 2 and DCFC in rural and underserved communities. Approximately four Level 2 charging stations in each of the 11 energy regions will be installed for a total of 44 charging stations. Construction, shipping, and maintenance costs can be double that of an urban location.

The team will draft and finalize an EV charger deployment plan specific to rural and underserved communities, including community input on how to best site EVSE. This will help provide benchmarking data to fully understand and track the impact of the financial investment on the market. The AEA will prioritize locations that utilize local workforce for EVSE installation and maintenance, as well as communities with renewable energy resources to reduce transportation related emissions. The project team will solicit feedback from communities on how to best site EV chargers to provide the maximum public benefit. By deploying community-based charging through this effort, we can demonstrate and measure usage by community members and visitors. Building from the existing EV Public Involvement Plan, AEA will coordinate a robust campaign for public education and outreach about successes and lessons learned from the project.

Alaska Energy Authority - New Energy Auditor Training IIJA **FY2024 Request: \$63,600**
Reference No: 64640

AP/AL: Appropriation **Project Type:** Energy
Category: To be determined
Location: Statewide **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40) **Contact:** Curtis W Thayer
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)771-3000

Brief Summary and Statement of Need:

The Infrastructure Investment and Jobs Act (IIJA) includes funding through the State Energy Program (SEP). Grants are for training individuals to conduct energy audits or surveys of commercial and residential buildings. The Alaska Energy Authority (AEA) is the designated State Energy Office and recipient of these funds. No state match is required for this funding. The federal funding allocation to states is subject to formula calculation. This request is for year two of a five-year annual funding allocation.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1002 Fed Rcpts	\$63,600	\$63,600	\$63,600	\$63,600			\$254,400
Total:	\$63,600	\$63,600	\$63,600	\$63,600	\$0	\$0	\$254,400

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:
 Sec11 Ch11 SLA2022 P87 L7 HB281 \$63,600

Project Description/Justification:

The Energy Auditor Training Grant Program provides grants to eligible states to train individuals to conduct energy audits or surveys of commercial and residential buildings to build the clean energy workforce, save customers money on their energy bills, and reduce pollution from building energy use.

Eligible uses of the fund are 1) to cover any cost associated with individuals being trained or certified to conduct energy audits by i) the state; or ii) a state-certified third-party training program; and 2) to pay the wages of a trainee during the period in which the trainee receives training and certification.

The AEA anticipates coordinating with Alaska Housing Finance Corporation (AHFC) in the administration of the training program funds.



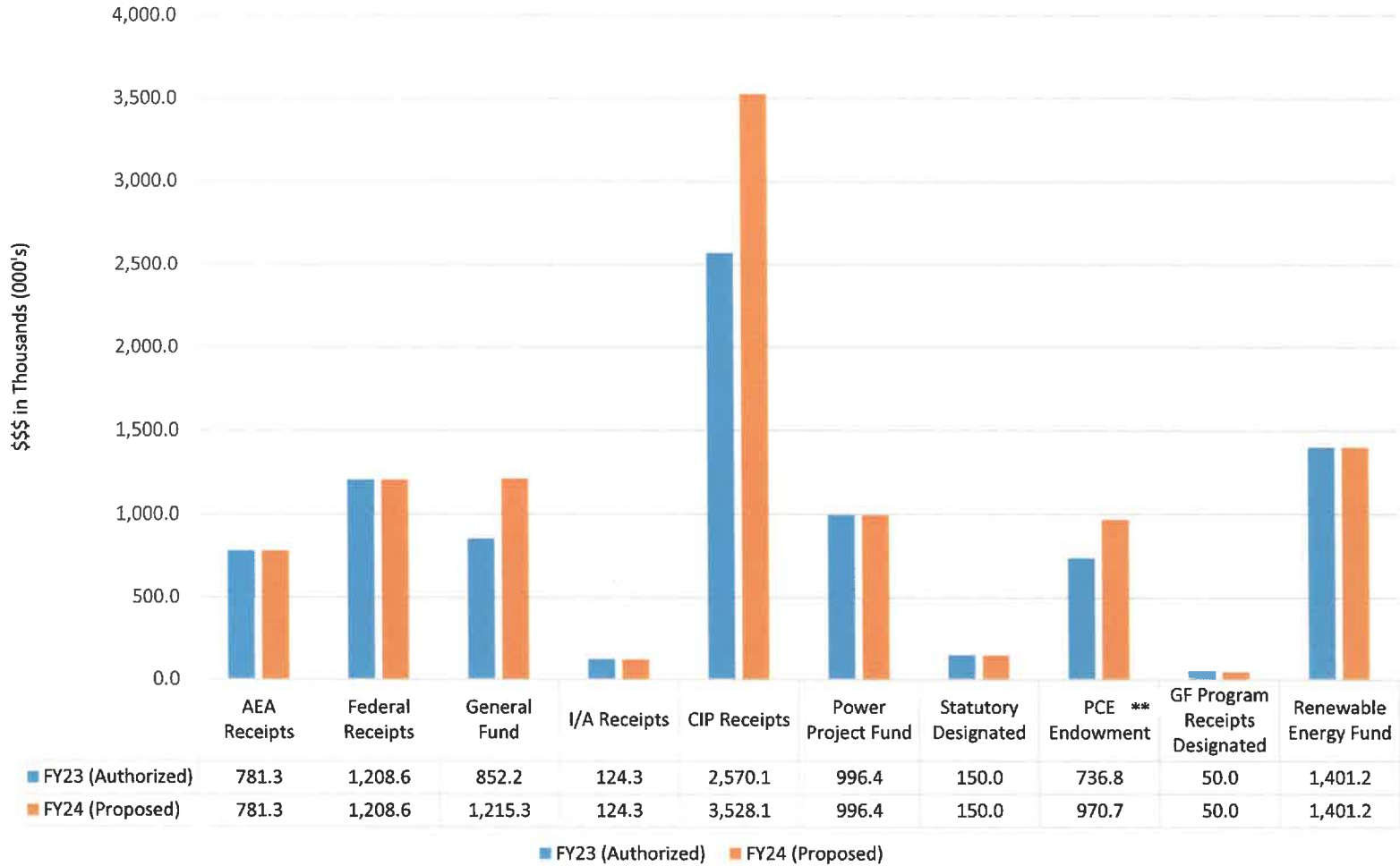
Alaska Energy Authority Operating Budget

FY23	\$ 41,225,900
FY24 (proposed)	\$ 58,120,700

Alaska Energy Authority - Capital Budget

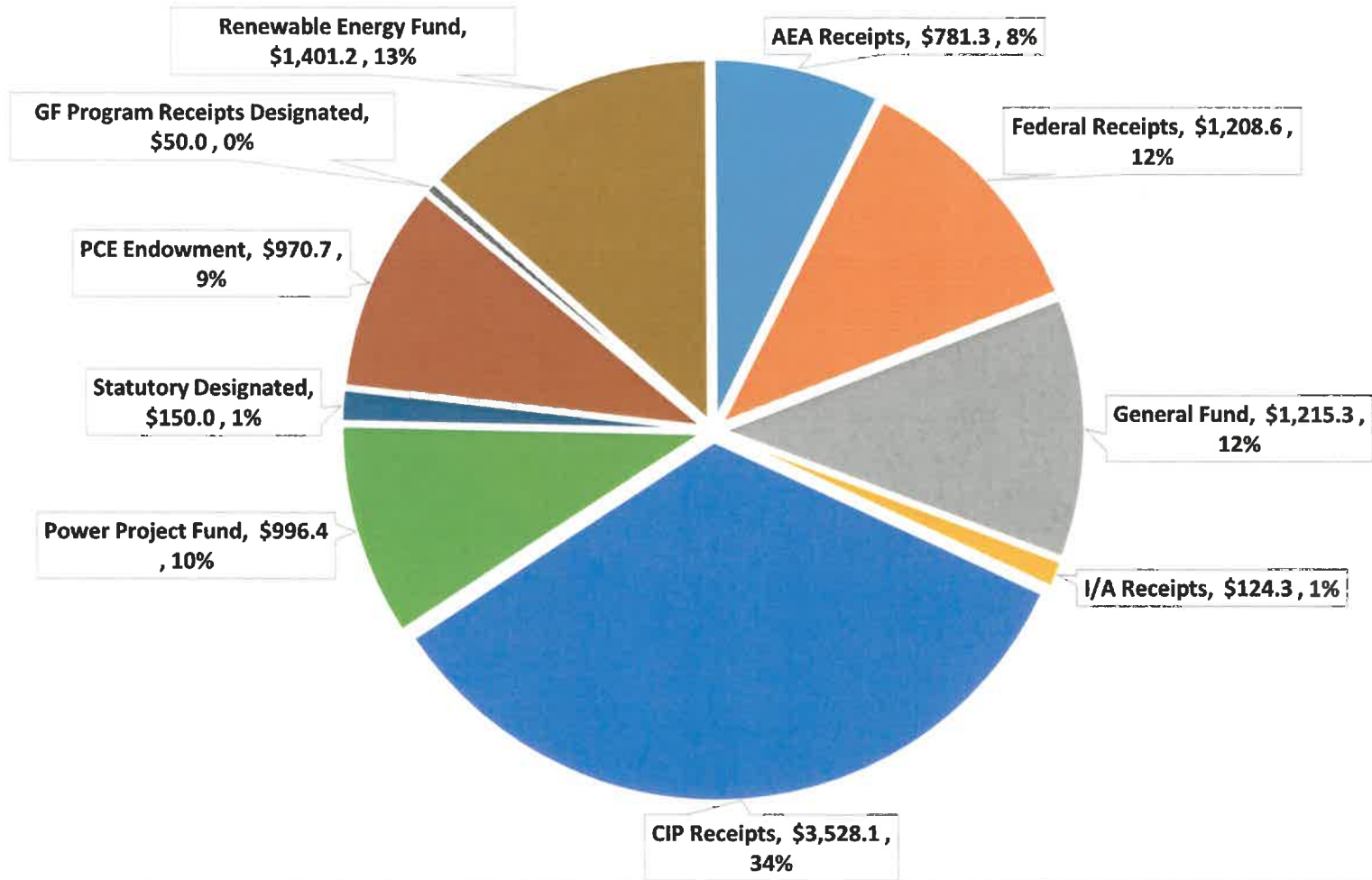
	Federal	State	Other	Total
FY22	\$ 25,000,000	\$ 15,450,973		\$ 40,450,973
FY23	\$ 41,024,363	\$ 38,583,158	\$ 400,000	\$ 80,007,521
FY24 (proposed)	\$ 46,344,123	\$ 28,016,579		\$ 74,360,702

**Alaska Energy Authority Operating Budget
FY23 (authorized) vs. FY24 (proposed)**

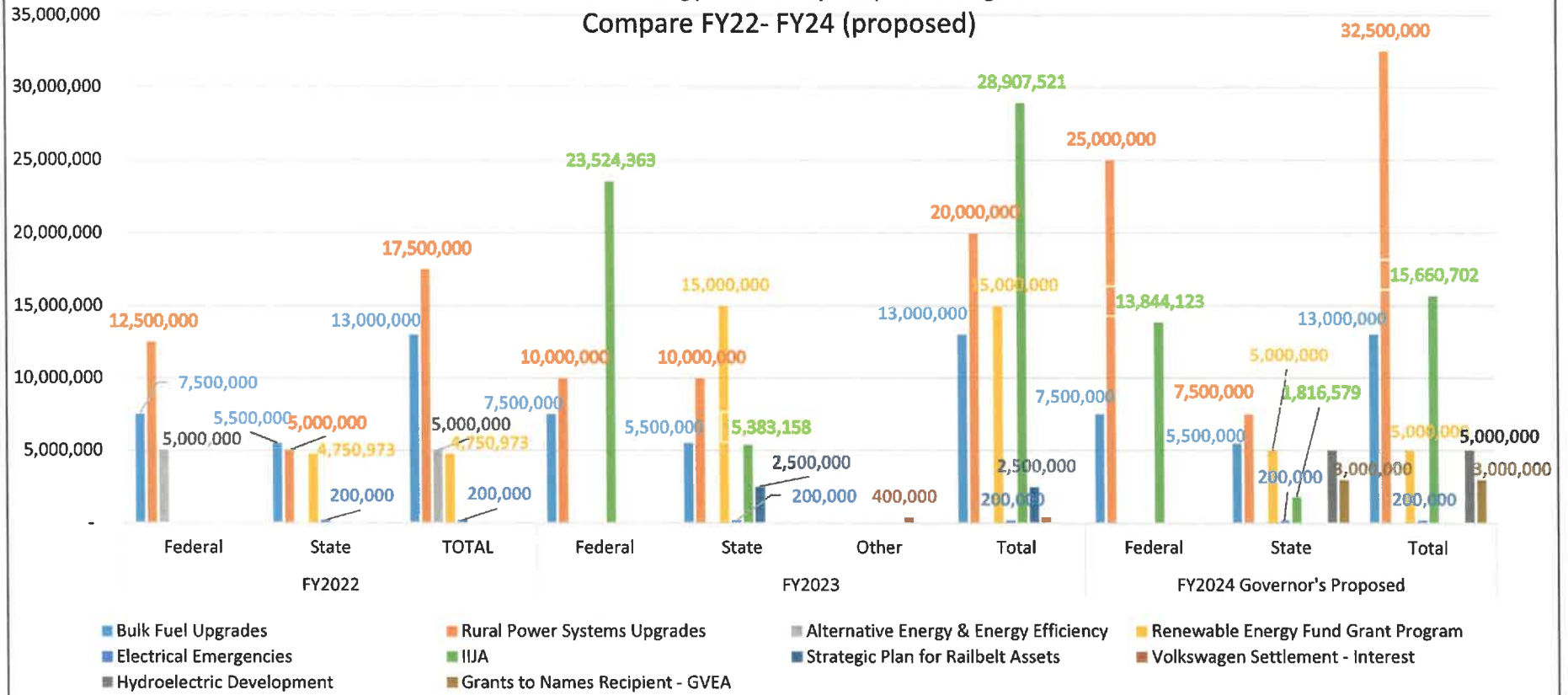


**PCE FY23 = \$32,355.0
PCE FY24 = \$47,678.8

**Alaska Energy Authority
FY24 Governor's Proposed Operating Budget**



Alaska Energy Authority Capital Budget Compare FY22- FY24 (proposed)



Alaska Energy Authority
FY24 Governor's Proposed Capital Budget - \$74,360,702

