State of Alaska FY2021 Governor's Operating Budget

Department of Commerce, Community, and Economic Development
Alaska Energy Authority Rural Energy Assistance
Component Budget Summary

Component: Alaska Energy Authority Rural Energy Assistance

Contribution to Department's Mission

Assist in the development of safe, reliable, and efficient energy systems throughout Alaska, which are sustainable, environmentally sound, and reduce the cost of energy in rural Alaska.

Major Component Accomplishments in 2019

Rural Power System Upgrades (RSPU) Program: In FY2019, AEA completed two RPSU projects in the communities of Kake and Kipnuk. Additional RPSU design and construction work including engine replacement with Diesel Emission Reduction Act funds was also completed.

Bulk Fuel Upgrades Program: In FY2019, two Bulk Fuel Upgrades in the communities of Shishmaref and Kake at a total cost of \$22.3 million.

Maintenance and Improvement: AEA and the Denali Commission are leveraging available funding by shifting focus towards maintenance and improvement projects. The goal is to maximize the useful life of rural energy infrastructure so that fewer complete facility replacements are required. This strategy has been incorporated into both the RPSU and Bulk Fuel Upgrades programs.

Circuit Rider: In FY2019, AEA's Circuit Rider program assisted 80 eligible utilities by providing remote monitoring, training, technical consultation, on-site assistance, and minor repairs to their power systems. The Circuit Rider and Technical Assistance programs provide essential preventative assistance to reduce the number of emergency responses that are needed due to power outages in communities.

Emergency Assistance: AEA provides power-related emergency response services to rural Alaska communities as required by AS 42.45.900. Emergency community assistance was provided to five communities during FY2019.

Technical Assistance: AEA provided planning and technical assistance to communities by reviewing resource specific project plans; providing feedback to communities exploring energy generation and efficiency options; analyzing community energy use; providing building energy audits; evaluating financing options for project development; helping to complete federal award applications; and providing technical assistance as needed to support community participation in the Power Cost Equalization (PCE) program.

Training Programs: AEA's Rural Training Program trains community operators on skills to operate their energy infrastructure, helping utilities keep their facilities code-compliant and sustainably managed. In FY2019, operators from 18 communities received certification of completion in Bulk Fuel Operations, 13 communities for Power Plant Operations, and seven communities for Advanced Power Plant Operations. This training was conducted in AEA's courses at the Alaska Vocational Technical Center (AVTEC). An additional 22 communities received on-site itinerant training in bulk fuel operations.

Training Manual Development: In FY2019, AEA began testing the first draft of the "Financial and Operational Management Guide for PCE-eligible Utilities." Tests included on-site and remote training to five communities. AEA provided training to utility managers, utility boards, operators, and clerks.

Key Component Challenges

Maintenance of Rural Infrastructure: Lack of proper maintenance of energy infrastructure is an ongoing problem in many rural communities. Improper maintenance shortens the useful life of rural power plants, electrical distribution, and bulk fuel facilities. AEA is addressing this issue through increased Circuit Rider visits and expanded training for power plant operators, bulk fuel operators, and utility managers. This training takes place at AVTEC's Seward facility as well as itinerantly in the communities.

Component — Alaska Energy Authority Rural Energy Assistance

Presently the Denali Commission provides almost all the funding for these efforts. As federal funding declines, state funding may be necessary to adequately protect the investment in rural energy infrastructure.

RPSU and Bulk Fuel Upgrades: Completing RPSU and Bulk Fuel Upgrades program projects in rural Alaska so critical energy infrastructure may be built or upgraded remains a challenge. Over time, communities with aging power systems will require frequent maintenance and/or emergency responses to prevent power outages. Less state and federal RPSU funding means more utilities need loans to finance power system repairs and upgrades. Many communities also have aging fuel tanks that may not meet the capacity needs of the community or are at risk of leaks, contamination, and/or failure.

Community Turnover and Training Challenges in Rural Workforce: Turnover of trained energy infrastructure operators and managers presents a challenge to successful operation of utilities, power plants, and bulk fuel facilities. Considerable time and expense go into the training of local personnel who often do not continue to be employed in the positions for which they were trained. New options need to be explored including a secondary operator model, regionalized local circuit rider funding, and contracted operations and maintenance.

Staffing: Workload has not declined at the same pace as staffing. Management is responding by realigning workload to resources and identifying core AEA services.

Significant Changes in Results to be Delivered in FY2021

AEA did not receive a capital budget for FY2020 and AEA anticipates a more competitive environment for federal Denali Commission funding. The potential for limited access to federal funding and declining state funds will impact the delivery of energy programs. Investments in energy infrastructure and required maintenance helps to ensure the equipment may last its full economic life, lowering energy costs by reducing capital expenditures. When utilities are well managed, they are better able to receive full benefits from PCE, pay for needed operations and maintenance, and plan for future expenditures.

AEA's circuit rider program, technical assistance, community assistance, and training programs for rural bulk fuel tank, power plant and hydro operators have historically been funded by state general funds. AEA partnered with the Denali Commission for the continued funding of some of these critical programs. Federal funding has been obtained for FY2020 and for part of FY2021 for the circuit rider and training programs. With Denali Commission support, AEA greatly expanded the training mission to include itinerate Rural Power System Operator, Bulk Fuel Operator, Utility Manager, and PCE Technician training. AEA's training programs help communities maintain and troubleshoot their existing energy systems to ensure maximum efficient, safe, and reliable energy production. However, future funding availability will impact the future delivery of those services.

Statutory and Regulatory Authority

AS 42.45 Rural and Statewide Energy Programs

3 AAC 106 Loan Programs 3 AAC 107 Grant Programs

3 AAC 160 Rural Development Assistance and Bulk Fuel Storage Facility Grant Programs

Contact Information

Contact: Curtis W. Thayer, Executive Director

Phone: (907) 771-3000

E-mail: cthayer@akenergyauthority.org

<u>Component Detail All Funds</u> Department of Commerce, Community, and Economic Development

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

Non-Formula Component

	FY2019 Actuals	FY2020 Conference Committee	FY2020 Authorized	FY2020 Management Plan	FY2021 Governor	FY2020 Manageme	ent Plan vs 1 Governor
71000 Personal Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
72000 Travel	53.9	104.8	104.8	104.8	104.8	0.0	0.0%
73000 Services	3,588.5	6,405.5	6,405.5	6,405.5	5,255.5	-1,150.0	-18.0%
74000 Commodities	19.8	48.0	48.0	48.0	48.0	0.0	0.0%
75000 Capital Outlay	27.0	10.0	10.0	10.0	10.0	0.0	0.0%
77000 Grants, Benefits	0.0	100.0	100.0	100.0	100.0	0.0	0.0%
78000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Totals	3,689.2	6,668.3	6,668.3	6,668.3	5,518.3	-1,150.0	-17.2%
Fund Sources:							
1002 Fed Rcpts (Fed)	524.8	1,502.0	1,502.0	1,502.0	1,202.0	-300.0	-20.0%
1004 Gen Fund (UGF)	874.5	847.3	847.3	847.3	847.3	0.0	0.0%
1005 GF/Prgm (DGF)	3.0	100.0	100.0	100.0	50.0	-50.0	-50.0%
1007 I/A Rcpts (Other)	0.0	123.9	123.9	123.9	123.9	0.0	0.0%
1061 CIP Rcpts (Other)	1,486.8	2,567.8	2,567.8	2,567.8	1,767.8	-800.0	-31.2%
1062 Power Proj (DGF)	598.7	995.5	995.5	995.5	995.5	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)	201.4	381.8	381.8	381.8	381.8	0.0	0.0%
Unrestricted General (UGF)	874.5	847.3	847.3	847.3	847.3	0.0	0.0%
Designated General (DGF)	803.1	1,477.3	1,477.3	1,477.3	1,427.3	-50.0	-3.4%
Other Funds	1,486.8	2,841.7	2,841.7	2,841.7	2,041.7	-800.0	-28.2%
Federal Funds	524.8	1,502.0	1,502.0	1,502.0	1,202.0	-300.0	-20.0%
Positions:							
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%

FY2021 Governor
Department of Commerce, Community, and Economic Development

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

Component: Alaska Energy Authority Rural Energy Assistance (2600)

RDU: Alaska Energy Authority (453)

										Po	sitions	
Scenario/Change	Trans	Totals	Personal	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	PFT	PPT	NP
Record Title	Туре		Services									
	*******	******	* Changes F	rom FY2020 Co	onference Cor	nmittee To FY2	020 Authorized	*********	******	***		
FY2020 Conference												_
	ConfCom	6,668.3	0.0	104.8	6,405.5	48.0	10.0	100.0	0.0	0	0	0
1002 Fed Rcpts	1,502.0											
1004 Gen Fund	847.3											
1005 GF/Prgm	100.0											
1007 I/A Rcpts	123.9											
1061 CIP Rcpts	2,567.8											
1062 Power Proj	995.5											
1108 Stat Desig	150.0											
1169 PCE Endow	381.8											
	Subtotal	6,668.3	0.0	104.8	6,405.5	48.0	10.0	100.0	0.0	0	0	0
	*******		Citalige		0 Managemen	t Plan To FY202	21 Governor **	*******	******			
Reduce Authority to												
	Dec	-50.0	0.0	0.0	-50.0	0.0	0.0	0.0	0.0	0	0	0
1005 GF/Prgm	-50.0											
Reduce authority fo	or the Rural Energy A	ssistance to align	with anticipated	I revenue and exp	enditures related	d to energy related	conferences.					
Reduce Authority for	r Rural Energy Assi		s to Align with									
	Dec	-300.0	0.0	0.0	-300.0	0.0	0.0	0.0	0.0	0	0	0
1002 Fed Rcpts	-300.0											
	laska Energy Author culture to align with a				ograms from the	Denali Commissio	n and to a lesser e	extent the U.S.				
Transfer to Statewid	e Project Developm	ent Alternative E	Energy and Effic	ciency for Reimb	ursable Service	s Agreements						
	Trout	-800.0	0.0	0.0	-800.0	0.0	0.0	0.0	0.0	0	0	0
1061 CIP Rcpts	-800.0											
	300.0											

Transfer capital improvement project (CIP) receipt authority from Alaska Energy Authority (AEA) Rural Energy Assistance to Statewide Project Development, Alternative Energy and Efficiency to align with anticipated reimbursable services agreements (RSAs) in support of capital projects. This alleviates the need for an unbudgeted RSA in Statewide Project Development, Alternative Energy and Efficiency. The remaining CIP receipt authority in AEA Rural Energy Assistance is sufficient to cover anticipated RSAs.

AEA administers several capital programs such as the rural power systems upgrades and bulk fuel upgrades programs, as well as alternative energy programs for biomass, wind, hydro, energy efficiency and energy planning. The direct and indirect payroll costs are funded through the operating budget with CIP receipts.

FY2021 Governor
Department of Commerce, Community, and Economic Development

<u>Change Record Detail - Multiple Scenarios with Descriptions</u> Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Rural Energy Assistance (2600)

RDU: Alaska Energy Authority (453)

										Po	sitions	
Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay Gran	nts, Benefits	Miscellaneous	PFT	PPT	NP
	Totals	5,518.3	0.0	104.8	5,255.5	48.0	10.0	100.0	0.0	0	0	0

<u>Line Item Detail (1676)</u> Department of Commerce, Community, and Economic Development Travel

Line Numbe	er Line Name			FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
2000	Travel			53.9	104.8	104.8
Object	t Class	Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
			2000 Travel Detail Totals	53.9	104.8	104.8
2000	In-State Employee Travel		In-State Transportation - Transportation costs for travel relating to administration, conventions and meetings, boards and commissions.	31.1	89.7	88.8
2002	Out of State Employee Travel		Out-of-State Transportation - Transportation costs for travel relating to administration, conventions and meetings, boards and commissions.	22.8	15.1	16.0

FY2021 Governor
Department of Commerce, Community, and Economic Development

<u>Line Item Detail (1676)</u> Department of Commerce, Community, and Economic Development Services

Line Numbe	er Line Name			FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
3000	Services			3,588.5	6,405.5	5,255.5
Object	t Class	Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
			3000 Services Detail Totals	3,588.5	6,405.5	5,255.5
3000	Education Services		Training, educational conferences, agency memberships, tuition, books and fees for work-related courses.	30.5	40.0	40.0
3001	Financial Services		Accounting, auditing, management consulting, grantee monitoring, loan servicing and insurance related services.	8.0	15.0	15.0
3002	Legal and Judicial Services		Legal and judicial services, including costs to conduct hearings and transcription fees.	2.6	10.0	10.0
3003	Information Technology		Information Technology - Training, consulting, equipment and software leases, licensing and maintenance.	22.1	15.0	15.0
3004	Telecommunications		Local, long distance, and cellular telephone charges, television, data/network, telecommunication equipment, and other wireless charges from outside vendors.	20.0	25.0	25.0
3006	Delivery Services		Freight, courier services, and postage.	1.0	10.0	10.0
3007	Advertising and Promotions		Advertising, promotions and legal notices.	5.1	5.0	5.0
3008	Utilities		Electricity, heating fuel, water, sewage and disposal services.	14.2	22.0	22.0
3009	Structure/Infrastructure/Land		Structure, infrastructure and land repairs, maintenance, rentals and leases.	1.4	2.0	2.0
		Department of Comme	FY2021 Governor rce, Community, and Economic Development		Released Janua	ary 3, 2020 Page 8

<u>Line Item Detail (1676)</u> Department of Commerce, Community, and Economic Development Services

Component: Alaska Energy Authority Rural Energy Assistance (2600)

Object	Class	Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
			3000 Services Detail Totals	3,588.5	6,405.5	5,255.5
3010	Equipment/Machinery		Machinery, furniture and equipment purchase, repairs, maintenance, rentals, and leases.	0.5	10.0	10.0
3011	Other Services		Other professional services.	297.4	300.0	300.0
3011	Other Services		Federal funding to address rural community energy needs, including technical assistance and operator training.	0.1	750.0	700.0
3011	Other Services		General Fund Program Receipts from participation fees for AEA-sponsored trainings and conferences. These receipts will not be allocated until they are received. Receipts were not received in FY2018.	0.0	100.0	100.0
3011	Other Services		Inter-agency receipts that will not be allocated until agreements are entered into.	0.0	123.9	123.9
3011	Other Services		Statutory designated program receipts in support of AEA-sponsored trainings, conferences, and events. These receipts will not be allocated until they are received. Receipts were not received in FY2018.	0.0	150.0	150.0
3024	Inter-Agency Legal	Law - Department-wide	Legal services.	54.0	50.0	50.0
3038	Inter-Agency Management/Consulting	Commerce - Administrative Services (1028)	Core and allocated services, including Administrative Services and Commissioner's Office support.	21.4	30.0	30.0
3038	Inter-Agency Management/Consulting	Commerce - AIDEA (1234)	Alaska Industrial Development and Export Authority support.	3,110.2	4,747.6	3,647.6

FY2021 Governor

Department of Commerce, Community, and Economic Development

Released January 3, 2020

Page 9

<u>Line Item Detail (1676)</u> Department of Commerce, Community, and Economic Development Commodities

Line Numbe	r Line Name			FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
4000	Commodities			19.8	48.0	48.0
Object Class		Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
			4000 Commodities Detail Totals	19.8	48.0	48.0
4000	Business		Supplies for office, library, training, and instructional needs, including small equipment, tools and subscriptions.	16.3	42.0	42.0
4002	Household/Institutional		Cleaning, food, and other household supplies.	1.1	2.0	2.0
4020	Equipment Fuel		Fuel and gasoline.	2.4	4.0	4.0

Line Item Detail (1676) Department of Commerce, Community, and Economic Development Capital Outlay

Line Number Line Name			FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
5000 Capital Outlay			27.0	10.0	10.0
Object Class	Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
		5000 Capital Outlay Detail Totals	27.0	10.0	10.0
5004 Equipment		Equipment and furniture.	27.0	10.0	10.0

<u>Line Item Detail (1676)</u> Department of Commerce, Community, and Economic Development Grants, Benefits

Line Number	Line Name			FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
7000	Grants, Benefits			0.0	100.0	100.0
Object C	lass	Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
			7000 Grants, Benefits Detail Totals	0.0	100.0	100.0
7001	Grants		Grants.	0.0	100.0	100.0

Revenue Detail (1681) Department of Commerce, Community, and Economic Development

Component: Alaska Energy Authority Rural Energy Assistance (2600)

Revenue Type (OMB Fund Code) Revenue Source Component	Comment	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
Revenue Source Component	Comment	F12019 Actuals	Wanagement Plan	F12021 Governo
5002 Fed Rcpts (1002 Fed Rcpts)		524.8	1,502.0	1,202.0
5002 Federal General Government -	Federal General Government - Misc	524.8	445.0	245.0
Miscellaneous Grants	grants.			
5002 Federal General Government -	Denali Commission grants for rural	0.0	307.0	207.0
Miscellaneous Grants	training and assistance programs.	2.2	750.0	750.0
5002 Federal General Government -	Federal funding received under a	0.0	750.0	750.0
Miscellaneous Grants	Memorandum of Understanding with the Denali Commission and			
	other agencies.			
	other agencies.			
005 GF/Prgm (1005 GF/Prgm)		3.0	100.0	50.0
5103 Program Receipts - Charges for	Program Receipts - Charges for	3.0	0.0	0.0
Services	services.			
5104 Program Receipts Charges for	Program Receipts - Third party	0.0	100.0	50.0
Services - 3rd Party Collectns	collections.			
5007 I/A Rcpts (1007 I/A Rcpts)		0.0	123.9	123.9
5301 Inter-Agency Receipts	Inter-Agency Receipts.	0.0	123.9	123.9
5061 CIP Rcpts (1061 CIP Rcpts)		1,486.8	2,567.8	1,767.8
5351 Capital Improvement Project	Capital Improvement Project	1,486.8	2,567.8	1,767.8
Inter-Agency	Receipts.			
5062 Power Proj (1062 Power Proj)		598.7	995.5	995.5
5413 Power Project Loan Fund	Power Project Loan Funds.	598.7	995.5	995.5
108 Stat Desig (1108 Stat Desig)		0.0	150.0	150.0
5205 Statutory Dsgntd Prgrm Rcpts	Charges for services.	0.0	150.0	150.0
Development - Charges for Svcs	5 g			
6169 PCE Endow (1169 PCE Endow)		201.4	381.8	381.8
6815 PCE Endowment Fund - Miscellaneous	Power Cost Equalization Fund	201.4	381.8	381.8
	receipts for program administration.			

FY2021 Governor

Department of Commerce, Community, and Economic Development

Released January 3, 2020

Page 13

Inter-Agency Services (1682) Department of Commerce, Community, and Economic Development Component: Alaska Energy Authority Rural Energy Assistance (2600)

				FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
			Component Totals	3,185.6	4,827.6	3,727.6
			With Department of Law With Department of Commerce, Community, and Economic Development	54.0 3,131.6	50.0 4,777.6	50.0 3,677.6
Object	t Class	Servicing Agency	Explanation	FY2019 Actuals	FY2020 Management Plan	FY2021 Governor
3024	Inter-Agency Legal	Law - Department-wide	Legal services.	54.0	50.0	50.0
3038	Inter-Agency Management/Consulting	Commerce - Administrative Services (1028)	Core and allocated services, including Administrative Services and Commissioner's Office support.	21.4	30.0	30.0
3038	Inter-Agency Management/Consulting	Commerce - AIDEA (1234)	Alaska Industrial Development and Export Authority support.	3,110.2	4,747.6	3,647.6

FY2021 Governor
Department of Commerce, Community, and Economic Development