

Renewable Energy Fund Round VII - Statewide Recommendations and Funding for Heat and Standard Applications											Ben / Cost		Stage 3 Review Scores (max)										Project Cost				Recommendation			
Count		Energy Region	ID	Project Name	Applicant	Applicant Type	Energy Source	Total Stage 2 Score	AEA B/C	Appl B/C	Cost of Energy \$/kWh	Fuel Price \$/gal	1. Cost of Energy (35)	2. Match (15)	3. Tech & Econ Feas (20)	4. Readiness (5)	5. Benefit (15)	6. Local Supt (5)	7. Sustainability (5)	Total (100)	Statewide Rank	Project Cost	Grant Requested	Match Offered	Phase	AEA Recomnd	Early	Recommend Funding	Cumulative Funding	
1	H	Aleutians	1026	Atka Dispatchable Heat	City of Atka	Local Government	Hydro to Heat	82.83	3.18	6.90	\$0.70	\$7.65	33.47	11.00	16.57	5.00	12.00	3.00	4.00	85.04	1	\$135,254	\$114,965	\$20,289	Construction	FULL		\$114,965	\$114,965	
2	S	Bristol Bay	1036	Packers Creek Hydroelectric Project Phase II	Chignik Lagoon Village Council	Government Entity	Hydro	86.33	1.66	3.85	\$0.69		30.26	11.00	17.27	5.00	11.00	5.00	3.83	83.36	2	\$5,389,149	\$2,352,653	\$3,036,496	Construction	FULL		\$2,352,653	\$2,666,092	
3	H	Yukon-Koyukok/Upper Tan	1044	Venetie Clinic Heat Recovery	Village of Venetie	Government Entity	Heat Recovery	85.17	1.68	2.45	\$0.90	\$8.50	35.00	6.00	17.03	4.00	11.25	4.00	3.33	80.62	3	\$204,428	\$198,474	\$11,908	DesignConstruction	FULL		\$198,474	\$313,439	
4	H	Yukon-Koyukok/Upper Tan	1047	Galena Community Wood Heat Project	City of Galena	Local Government	Biomass	88.00	4.31	3.96	\$0.56	\$6.02	26.34	6.00	17.60	3.83	14.13	5.00	4.50	77.40	4	\$3,144,200	\$3,096,898	\$47,302	Construction	FULL SP		\$3,096,898	\$5,762,990	
5	H	Lower Yukon-Kuskokwim	1052	Nunam Iqua Heat Recovery Project	City of Nunam Iqua	Local Government	Heat Recovery	87.67	2.20	2.33	\$0.53	\$4.38	19.16	13.00	17.53	3.00	12.50	5.00	3.50	73.69	5	\$603,000	\$450,000	\$153,000	Construction	FULL		\$450,000	\$6,212,990	
6	H	Southeast	1011	Sitka Centennial Hall Air Source Heat Pump	City and Borough of Sitka	Local Government	Heat Pumps	80.50	1.69	3.58	\$0.09	\$3.59	15.71	15.00	16.10	5.00	10.75	5.00	4.83	72.39	6	\$232,620	\$232,620	\$1,021,393	DesignConstruction	FULL		\$232,620	\$6,445,610	
7	S	Bering Straits	1068	Stebbins St Michael Wind Energy Final Design and Permitting	Alaska Village Electric Cooperative, Inc.	Utility	Wind	83.33	1.80	2.74	\$0.56		24.42	7.00	16.67	3.00	11.63	5.00	4.50	72.21	7	\$3,946,050	\$342,000	\$18,000	Design	FULL		\$342,000	\$6,787,610	
8	H	Lower Yukon-Kuskokwim	1085	Tuntutuliak Heat Recovery	Native Village of Tuntutuliak	Government Entity	Heat Recovery	81.33	1.54	2.32	\$0.65	\$6.80	29.75	6.00	16.27	3.83	10.13	3.00	3.00	71.98	8	\$469,311	\$455,642	\$13,669	DesignConstruction	FULL		\$455,642	\$7,243,252	
9	H	Lower Yukon-Kuskokwim	1061	Emmonak Heat Recovery System	City of Emmonak	Government Entity	Heat Recovery	87.67	2.56	4.02	\$0.55	\$5.77	25.24	6.00	17.53	4.00	12.50	3.00	2.67	70.94	9	\$689,251	\$689,251	\$20,677	DesignConstruction	FULL SP		\$689,251	\$7,932,503	
10	S	Yukon-Koyukok/Upper Tan	1027	Chisana Mountain Wind Feasibility Project	Alaska Power Company	Utility	Wind	85.00	2.55		\$0.49		21.46	11.00	17.00	2.50	12.50	2.00	4.17	70.63	10	\$148,800	\$119,000	\$29,800	Feasibility	FULL		\$119,000	\$8,051,503	
11	S	Yukon-Koyukok/Upper Tan	1077	Yerrick Creek Hydroelectric Project	Native Village of Tanacross	Government Entity	Hydro	58.33	4.23	9.84	\$0.49		21.46	15.00	11.67	3.00	11.25	5.00	3.17	70.54	11	\$19,000,000	\$6,000,000	\$11,500,000	Construction	PARTIAL		\$75,000	\$8,126,503	
12	S	Lower Yukon-Kuskokwim	1067	Mountain Village Wind Feasibility and Conceptual Design	Alaska Village Electric Cooperative, Inc.	Utility	Wind	79.17	1.70	1.23	\$0.54		23.80	7.00	15.83	2.50	11.63	5.00	4.50	70.26	12	\$4,833,000	\$123,500	\$6,500	Feasibility	FULL		\$123,500	\$8,250,003	
13	H	Southeast	1087	Kake Community Energy	Organized Village of Kake	Government Entity	Biomass	73.83	1.62	1.18	\$0.62	\$5.85	25.59	7.00	14.77	2.00	12.00	4.00	4.00	69.36	13	\$1,423,292	\$208,073	\$20,000	Design	PARTIAL	Y	\$175,000	\$8,425,003	
14	H	Southeast	1037	Ketchikan Gateway Borough Biomass Heating Project	Ketchikan Gateway Borough	Local Government	Biomass	84.33	2.15	0.24	\$0.10	\$3.59	15.71	11.00	16.87	3.67	13.00	5.00	3.50	68.74	14	\$1,957,261	\$1,412,889	\$353,222	Construction	PARTIAL SP		\$620,000	\$9,045,003	
15	S	Railbelt	1082**	Stetson Creek Diversion Cooper Lake Dam Facilities Project	Chugach Electric Association, Inc.	Utility	Hydro	94.33	7.11	0.89	\$0.15		6.78	15.00	18.87	5.00	12.88	5.00	5.00	68.52	15	\$21,772,523	\$3,453,920	\$13,591,226	Construction	Partial-REFAC**		\$1,760,019	\$10,805,022	
16	S	Copper River/Chugach	1015++	Allison Creek Hydroelectric Project Construction	Copper Valley Electric Association, Inc.	Utility	Hydro	89.33	3.96	3.68	\$0.28		12.44	15.00	17.87	4.00	12.13	2.00	5.00	68.43	16	\$49,000,000	\$5,914,491	\$5,914,491	Construction	Partial-REFAC++		\$4,764,652	\$15,569,674	
17	S	Southeast	1025	Gunnuk Creek Hydroelectric Feasibility Study	Inside Passage Electric Cooperative	Utility	Hydro	73.00	4.28		\$0.62		27.14	7.00	14.60	2.00	11.63	2.00	3.83	68.20	17	\$300,000	\$275,000	\$25,000	ReconFeasibility	PARTIAL SP		\$80,000	\$15,649,674	
18	H	Bering Straits	1040	Brevig Mission Water System Heat Recovery	City of Brevig Mission	Government Entity	Heat Recovery	83.00	1.51	2.01	\$0.54	\$5.29	23.14	6.00	16.60	5.00	10.25	4.00	3.17	68.16	18	\$753,313	\$731,372	\$21,941	DesignConstruction	FULL		\$731,372	\$16,381,046	
19	H	Railbelt	1031	Seldovia House Ground Source Heat Pump Project	Cook Inlet Housing Authority	Government Entity	Heat Pumps	58.17	1.12	0.94	\$0.20	\$5.19	22.71	15.00	11.63	4.50	5.25	5.00	3.83	67.93	19	\$362,805	\$318,289	\$411,835	DesignConstruction	FULL		\$318,289	\$16,699,335	
20	H	Southeast	1021	Haines Borough Municipal Buildings Biomass Project	Haines Borough	Local Government	Biomass	88.50	1.72	1.79	\$0.22	\$4.09	17.89	9.00	17.70	3.83	12.63	2.00	4.50	67.55	20	\$1,374,892	\$1,237,403	\$137,448	DesignConstruction	FULL SP		\$1,237,403	\$17,936,738	
21	H	Lower Yukon-Kuskokwim	1043	St. Mary's Heat Recovery System	City of St. Mary's	Government Entity	Heat Recovery	85.17	1.61	2.21	\$0.49	\$4.60	20.13	6.00	17.03	3.83	11.25	5.00	4.17	67.41	21	\$757,299	\$735,242	\$22,057	DesignConstruction	FULL		\$735,242	\$18,671,980	
22	H	Yukon-Koyukok/Upper Tan	1032	Biomass Heat for Minto Community Buildings	Village of Minto	Government Entity	Biomass	69.33	1.02	1.37	\$0.59	\$5.00	21.88	15.00	13.87	3.00	5.38	5.00	3.17	67.29	22	\$403,550	\$274,750	\$278,800	DesignConstruction	FULL SP		\$274,750	\$18,946,730	
23	H	Southeast	1053	Yakutat Biomass District Heating Loop	City and Borough of Yakutat	Local Government	Biomass	67.67	1.45	2.31	\$0.50	\$5.05	22.09	11.00	13.53	2.00	8.88	5.00	4.17	66.67	23	\$335,456	\$286,166	\$49,290	DesignConstruction	PARTIAL SP	Y	\$103,000	\$19,049,730	
24	H	Lower Yukon-Kuskokwim	1073	Kongiganak Wind Heat Electrical Thermal Storage	Puvurnaq Power Company	Utility	Wind to Heat	74.17	1.70	2.55	\$0.56	\$6.21	27.17	6.00	14.83	2.83	12.38	3.00	3.00	66.21	24	\$320,456	\$311,456	\$9,000	Construction	FULL SP		\$311,456	\$19,361,186	
25	S	Bristol Bay	1072	Igiugig Wind Resource Feasibility/Conceptual Design	Igiugig Village Council	Government Entity	Wind	47.00	0.86	1.40	\$0.80		35.00	13.00	9.40	2.50	0.00	3.00	3.17	66.07	25	\$110,000	\$80,000	\$30,000	Feasibility	FULL SP		\$80,000	\$19,441,186	
26	H	Lower Yukon-Kuskokwim	1041	Chevak Water and Vacuum Plant Heat Recovery	City of Chevak	Government Entity	Heat Recovery	85.33	1.83	2.44	\$0.48	\$4.30	18.81	6.00	17.07	3.00	12.50	5.00	2.83	65.										

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Count		Energy Region	ID	Project Name	Applicant	Applicant Type	Energy Source	Total Stage 2 Score	AEA B/C	Appl B/C	Cost of Energy \$/kWh	Fuel Price \$/gal	1. Cost of Energy (35)	2. Match (15)	3. Tech & Econ Feas (20)	4. Readiness (5)	5. Benefit (15)	6. Local Supt (5)	7. Sustainability (5)	Total (100)	State-wide Rank	Project Cost	Grant Requested	Match Offered	Phase	AEA Recomm	Early	Recommend Funding	Cumulative Funding	
Not Recommended Projects:																														
65	S	Southeast	1019	Survey Creek Hydroelectric Project	Edna Bay Community	Local Government	Hydro	39.33	1.48	1.37	N/A											\$3,562,772	\$62,272	\$3,500	Recon	Did Not Pass Stage 2				
66	S	Railbelt	1002	Poncelet Kinetics RHK100 Prototype Demonstration	Whitestone Power and Communications	IPP	Hydrokinetic	39.17	0.16	0.16	\$0.22											\$1,940,558	\$1,560,558	\$120,000	Construction	Did Not Pass Stage 2				
67	S	Southeast	1024	Walker Lake Hydro Project Feasibility	Tlingit-Haida Regional Electrical Authority	Utility	Hydro	39.00	1.05		\$0.62											\$825,000	\$700,000	\$125,000	ReconFeasibility	Did Not Pass Stage 2				
68	S	Railbelt	1029	Jack River Hydroelectric Project Feasibility Study	Native Village Of Cantwell	Government Entity	Hydro	35.33	0.79	1.21	\$0.22											\$31,500,000	\$213,750	\$11,250	Feasibility	Did Not Pass Stage 2				
69	S	Aleutians	1056	Adak Wind Data Collection Analysis and Preliminary Design	City of Adak, Alaska	Local Government	Wind	35.33	0.47	0.27	\$0.81											\$72,400,000	\$160,000	\$0	Feasibility	Did Not Pass Stage 2				
70	S	Northwest Arctic	1059	Cosmos Hills Hydroelectric Design and Permitting	Alaska Village Electric Cooperative	Utility	Hydro	27.50	0.71	1.05	\$0.74											\$38,660,000	\$2,922,000	\$150,000	Design	Did Not Pass Stage 2				
71	S	Kodiak	1004	Karluk Tribal Council Wind Energy System	Karluk Tribal Council	Government Entity	Wind	21.17	0.76	1.83	\$0.60											\$1,300,000	\$81,000	\$300	FeasibilityDesign	Did Not Pass Stage 2				
72	S	Southeast	1003	Mahoney Lake Hydroelectric Phase III and IV	City of Saxman	Local Government	Hydro		1.79	6.91	\$0.10											\$51,000,000	\$4,000,000	\$4,000,000	DesignConstruction	Not Recommended				
73	H	Bristol Bay	1006	NEA Stack Heat to Power Project	Naknek Electric Association, Inc.	Utility	Heat Recovery		1.39	6.44	\$0.50											\$1,940,379	\$1,843,379	\$97,000	FeasDesignConstr.	Not Recommended				
74	H	Lower Yukon-Kuskokwim	1008	Chuathbaluk Water System Heat Recovery	City of Chuathbaluk	Government Entity	Heat Recovery		0.97	0.98	\$0.85											\$232,430	\$225,660	\$6,770	DesignConstruction	Not Recommended				
75	S	Southeast	1020	Excursion Inlet Hydro Project Feasibility and Conceptual Des	Haines Borough	Local Government	Hydro		0.09	3.93	N/A											\$14,500,000	\$213,536	\$10,000	Feasibility	Not Recommended				
76	S	Southeast	1034	Metlakatla to Ketchikan Intertie	Metlakatla Indian Community	Government Entity	Transmission		1.77	1.28	\$0.10											\$14,510,599	\$9,281,615	\$0	DesignConstruction	Not Recommended				
77	S	Southeast	1035	Feasibility Study of Tenakee Inlet Geothermal Resource	Inside Passage Electric Cooperative	Utility	Geothermal		0.44	1.24	\$0.65											\$49,000,000	\$3,378,500	\$0	Feasibility	Not Recommended				
78	S	Bristol Bay	1046	Port Alsworth Hydropower PreConstruction Phase	Port Alsworth Improvement Corporation	Government Entity	Hydro		1.52		\$0.68											\$7,224,213	\$159,000	\$10,000	ReconFeasibility	Not Recommended				
79	S	Bristol Bay	1050	Bristol Bay Borough School District Solar PV Project	Bristol Bay Borough School District	Government Entity	Solar PV		0.96	1.28	\$0.50											\$235,000	\$230,000	\$5,000	DesignConstruction	Not Recommended				
80	S	Northwest Arctic	1058	Noatak Utility Size Photovoltaic Array Construction Project	Northwest Arctic Borough	Local Government	Solar PV		1.24	1.22	\$0.74											\$447,800	\$447,800	\$0	Construction	Not Recommended				
81	S	Bristol Bay	1063	Iliamna Solar Ground Mounted Energy System	Iliamna Village Council	Government Entity	Solar PV		0.01	0.40	\$0.59											\$2,000,000	\$800,000	\$120,000	ReconFeasibility	Not Recommended				
82	S	Copper River/Chugach	1064	Chenega Bay Hydroelectric Construction	Native Village of Chenega	Government Entity	Hydro		1.14	1.02	\$0.44											\$1,650,000	\$1,400,000	\$0	DesignConstruction	Not Recommended				
83	H	Northwest Arctic	1076	NWAB School District Solar Thermal Systems	Northwest Arctic Borough School District	Government Entity	Solar Thermal		1.48	3.14	\$0.63											\$467,252	\$456,252	\$11,000	Construction	Not Recommended				
84	S	Lower Yukon-Kuskokwim	1039	Four Villages Intertie Design	Nuvista Light and Electric Cooperative	Government Entity	Transmission															\$1,250,000	\$1,250,000	\$0	Feasibility	Did Not Pass Stage 1				
85	S	Lower Yukon-Kuskokwim	1054	Multiple Alternative Energy Sources for Napakiak	Napakiak Ircinraq Power Company	Utility	Wind															\$2,284,000	\$141,000	\$20,000	DesignConstruction	Did Not Pass Stage 1				
86	S	Lower Yukon-Kuskokwim	1086	Chefornak High Penetration Wind Diesel System	Naterqak Light Plant, City of Chefornak	Local Government	Wind															\$4,358,784	\$4,308,784	\$50,000	DesignConstruction	Did Not Pass Stage 1				
Sub Total - Not Recommended Projects																						\$301,288,787	\$33,835,106	\$4,739,820	SubTotal					
Grand Total - All Applications																						\$524,085,270	\$93,011,953	\$57,294,853	\$41,593,701				GrandTotal	

Notes

This document represents AEA's final recommendations following advisement from the REFAC committee on January 7, 2014.

If REF 7 funding is limited to \$20M exactly, #1082 Stetson Creek Diversion Cooper Lake Dam Facilities Project and #1015 Allison Creek Hydroelectric

Project Construction will be partially funded at approximately 50% and 80% of AEA's Full Funding Recommendations

** #1082 Stetson Creek Diversion Cooper Lake Dam Facilities Project is recommended by AEA staff to be fully funded. If REF7 allocations are greater than

the Governor's budget of \$20m, the REFAC recommends funding the remaining grant requested funding of \$1,693.901.

++ #1015 Allison Creek Hydroelectric Project Construction is recommended by AEA staff to be fully funded. If REF7 allocations are greater than the Governor's

budget of \$20m, the REFAC recommends funding the remaining grant requested funding of \$1,149,831.

H = Heat application, applications that deliver heat only, not electricity.

These applications are highlighted in orange, with a dark orange representing those applications recommended by the REFAC to fit within the Governor's budget of \$20M allocation for REF Round VII.

S = Standard application, applications that deliver electricity, energy storage, transmission or a combination of electricity and heat.

These applications are highlighted in blue, with a dark blue representing those applications recommended by the REFAC to fit within the Governor's budget of \$20M allocation for REF Round VII.

Total Stage 2 Score column is the technical and economic evaluation score and is on a scale of 0 to 100. A minimum score of 40 is required to pass stage 2.

B/C = Benefit/Cost Ratio over the life of the project.

AEA B/C ratio uses AEA's best assumptions in the standard REF economic model

Some not recommended projects' B/C ratios may be incomplete due to incomplete information provided or other reasons.

The Applicant B/C ratio uses the applicants assumptions in the standard Renewable Energy Fund economic model.

SP = Special Provisions

Match offered is applicant's offered cash and in-kind match, including supporting energy efficiency work and wood harvest value where applicable.