

Title	Technology	Location	Project Proponent			Funding		Capacity			Capital Costs		
Project Name	Energy Resource	Project Location	Name of entity	Type of Entity	Tax Status	Funding Program if Identified	Other Funding Options	Nameplate Capacity (kW)	Annual Net Electricity used for thermal loads	Annual power generation (kWh/yr)	Total Capital Cost Going Fwd (\$)	Date of Cost Estimates (Month, Year)	Cost Uncertainty (ACEE, H, M, L)
<b>Hydroelectric</b>													
Chignik (Indian Creek) Hydro Project	Hydro (small reservoir)	Chignik	City of Chignik	Second Class City	Government	State grand funded: Renewable Energy Grant Fund		520	2,375,139	794,861	\$ 4,397,970	Oct-08	H
Knutson Creek Hydro Feasibility and Planning	Hydro	Pedro Bay	Pedro Bay Village Council & Electric Utility	Tribal Government	Government	State grant funds	Federal funding	150		1,084,000	\$ 3,400,000	Nov-12	H
Nushagak Area Hydro Project (NAHP) - Grant Lake	Hydro (reservoir)	Aleknagik, Dillingham, and Kakanak (Possible future interties to Manokotak, Ekwok, New Stuyahok, Kaligagak)	Nushagak Electric and Telephone Cooperative	Electric Utility Cooperative	Nonprofit cooperative	20% Federal Funds, 40% State (Renewable Energy Fund), 40% debt financing (grantee)	Project Match \$29.5m	2,700		10,711,200	\$ 48,800,000	Oct-09	H
Nushagak Area Hydro Project (NAHP) - Lake Elva	Hydro (large reservoir)	Aleknagik, Dillingham, and Kakanak (Possible future interties to Manokotak, Ekwok, New Stuyahok, Kaligagak)	Nushagak Electric and Telephone Cooperative	Electric Utility Cooperative	Nonprofit cooperative	State Renewable Energy Fund, Grantee match (debt funded?)	Project Match \$4m cash, \$4m in-kind	1,500		3,000,000	\$ 15,970,000	Sep-08	H
Tazimina Hydro Project Capacity Increase	Hydro	Iliamna, Newhalen, Nondalton	INN Electric Cooperative, Inc.	Electric Utility Cooperative	Nonprofit coop	AEA REF, INNEC match (11.5%)	USDA RUS, Denali Commission, BBEDC, private financing, commercial loans	1,500	2,300,000	0	\$ 2,585,000	Jul-12	M
<b>Hydrokinetic (demonstration project)</b>													
Kvichak River RISEC Project	Hydrokinetic (instream hydro)	Igiugig	Igiugig Village Council d/b/a Igiugig Electric Company	Wholly-owned utility of Tribal Government	Government	State funding through Emerging Energy Technology Fund and/or AEA Renewable Grant Fund		40		160,700	\$ -	Jul-11	H

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<b>Solar</b>													
Bristol Bay School District Solar PV Project	Solar PV	Naknek	Bristol Bay Borough School District	School District	Government	Renewable Energy Grant Fund, AAEERLF (energy performance)	School bonds, other state funding request, federal renewable energy funds	50		42,350	\$ 438,000	Jul-12	L
<b>Wind</b>													
Chignik Lagoon Wind Project 1	High Penetration Wind	Chignik Lagoon	Chignik Lagoon Power Utility			AEA Renewable Energy Fund with Local Match		225	538,104	230,896	\$ 1,624,164	Oct-11	+/-30%
Chignik Lagoon Wind Project 2	High Penetration Wind	Chignik Lagoon	Chignik Lagoon Power Utility			AEA Renewable Energy Fund with Local Match		330	538,104	714,896	\$ 2,117,184	Oct-11	+/-30%
Chignik Lake Wind Project 1	High Penetration Wind	Chignik Lake	Chignik Lake Electric Utility			AEA Renewable Energy Fund with Local Match		100	347,000	0	\$ 1,637,912	Jun-11	+/-30%
Chignik Lake Wind Project 2	High Penetration Wind	Chignik Lake	Chignik Lake Electric Utility			AEA Renewable Energy Fund with Local Match		225	419,750	332,250	\$ 1,984,164	Jun-11	+/-30%
Igiugig Wind Project	High Penetration Wind	Igiugig	Igiugig Electric Company			AEA Renewable Energy Fund with Local Match		100	223,000	-	\$ 1,750,000	Nov-12	+/-30%
Manokotak Wind & Heat Feasibility	Wind	Manokotak	Manokotak Power Company	Electric Utility	For Profit	State funded through AEA Renewable Energy Grant fund	5% local match for feasibility study	190	102,527	363,505	\$ 2,338,000	Sep-12	H
New Koliganek Wind & Heat Recovery Feasibility	Wind-Diesel-CHP	Koliganek	New Koliganek Village Council	Tribal government	Government	AEA Renewable Energy Fund		55		97,100	\$ 466,052	Fall 2010	H

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New Stuyahok Wind Feasibility & Concept Design	Wind	New Stuyahok	AVEC	Electric Utility	Nonprofit coop	State funding through Renewable Energy Grant Fund, with 10% cash match by AVEC	Denali Commission, USDA Rural Utility Service program, other grant program.	300		599,184	\$ 4,705,321	Sep-08	H
Nushagak Community Wind Power Project	Wind	Dillingham, Aleknagik	Nushagak Electric & Telephone Cooperative	Electric Utility Cooperative	Nonprofit cooperative	State Renewable Energy Grant (application not funded in round 4)	Matching Funds (10% offered in REGF4 applic)	450		797,694	\$ 3,543,261	Jul-10	H
Pilot Point Wind-Diesel-CHP (High Penetration)	Wind-Diesel-CHP	Pilot Point	City of Pilot Point	Second Class City	Government	AEA REF, City Match		100	45,000	195,000	\$ 1,568,180	2009	M
Port Alsworth Wind Project 1	High Penetration Wind	Port Alsworth	Tanalian Electric Cooperative Inc.			AEA Renewable Energy Fund with Local Match		225	337,000	0	\$ 1,624,164	Oct-11	+/-30%
Port Alsworth Wind Project 2	High Penetration Wind	Port Alsworth	Tanalian Electric Cooperative Inc.			AEA Renewable Energy Fund with Local Match		330	587,000	0	\$ 2,117,184	Oct-11	+/-30%
Port Heiden Wind & Power Distribution Upgrade	Wind-Diesel-CHP	Port Heiden	Lake & Pen Borough	Borough Govt	Government	AEA, Borough Match		330	634,194	245,466	\$ 2,474,066	2010	H

Title	Project Life	Displaced Fuel		Project Status			Next Step		Sources	
Project Name	Economic life	Electricity (gals per year)	Heat (gals per year)	Current Stage (funding)	Next Stage	Funded	Next Step	Entity Responsible for Next Step	Primary	Additional
<b>Hydroelectric</b>										
Chignik (Indian Creek) Hydro Project	50	55,430	165,630	Feasibility study and CDR (REF 1 funding)	Final Design and Permitting	No	Find funding, concurrent with permitting and final design	City of Chignik, L&P Borough, Hatch USA	REGF 1 40	D. Hertrich, via email (2/4/2013)
Knutson Creek Hydro Feasibility and Planning	50	21,300	\$ 15,000	Permitting & Design (REF Rnd 6)	Construction & Commissioning				REGF 6 976	None
Nushagak Area Hydro Project (NAHP) - Grant Lake	50	823,938		Feasibility (REF 3)	Design and Permitting	No	Waiting for feasibility report and Go-No Go decision in Jan 2013.	Marsh Creek?, AEA	REGF 3 435	
Nushagak Area Hydro Project (NAHP) - Lake Elva	50	591,102		Feasibility (REF 1)	Design and Permitting	NO	Waiting for feasibility report and Go-No Go decision in Jan 2013.		REGF 1 6	
Tazimina Hydro Project Capacity Increase	50	-	160,000	Final Feasibility (REF 6 funding). Will make Go-No Go decision in Jan 2014	Procurement and Installation	No		INNEC with HDR Alaska	REGF 6 908	
<b>Hydrokinetic (demon)</b>										
Kvichak River RISEC Project	20	-		Demonstration Projects (Emerging Energy Technology Fund)		No	Assess feasibility going forward based on results of demonstration project.	Igiugig Village Council	EETF 43, EETF 58	AlexAnna Salmon

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<b>Solar</b>										
Bristol Bay School District Solar PV Project	30	6,558	3,300	Not Funded	Design, Permitting, and Construction	No	Letter from Naknek Electric in support of net metering for 50kW. Drawings, calculations and cost estimates from qualified contractor.	BBNA and SWSD	REGF 6 980	
<b>Wind</b>										
Chignik Lagoon Wind Project 1	20	\$ 45,718	\$ 19,617	Feasibility Study complete	Final design, permitting and construction	No	Look for financing, start permitting, identify potential projects in surrounding communities for cost sharing opps	L&P Borough or Village Council	Knight Piesold Wind Resource Assessment Final Report 10-20-11	Chris Mertes at Knight Piesold
Chignik Lagoon Wind Project 2	20	\$ 45,718	\$ 60,739	Feasibility Study complete	Final design, permitting and construction	No	Look for financing, start permitting, identify potential projects in surrounding communities for cost sharing opps	L&P Borough or Village Council	Knight Piesold Wind Resource Assessment Final Report 10-20-11	Chris Mertes at Knight Piesold
Chignik Lake Wind Project 1	20	\$ 26,692	\$ -	Feasibility Study complete	Final design, permitting and construction	No	Look for financing, start permitting, identify potential projects in surrounding communities for cost sharing opps	L&P Borough or Village Council	Knight Piesold Wind Resource Assessment Final Report 6-11	Chris Mertes at Knight Piesold
Chignik Lake Wind Project 2	20	\$ 32,288	\$ 25,558	Feasibility Study complete	Final design, permitting and construction	No	Look for financing, start permitting, identify potential projects in surrounding communities for cost sharing opps	L&P Borough or Village Council	Knight Piesold Wind Resource Assessment Final Report 6-11	Chris Mertes at Knight Piesold
Igiugig Wind Project	20	\$ 18,430	\$ -	Feasibility Study complete	Final design, permitting and construction	No	Complete assessment of UAF wind spires project and decide on best project	Village Council	AEA REGF 6 910 + Knight Piesold Wind Resource Assessment Final Report 10-20-11	Chris Mertes at Knight Piesold
Manokotak Wind & Heat Feasibility	20	29,103	2,963	Feasibility and CDR (REF 6 funding)	Final Design, Procurement and Installation	No			REGF 6 962	
New Koliganek Wind & Heat Recovery Feasibility	20	9,510		Feasibility and CDR; permitting mostly done (REF 4)	65% Design and Construction	No	Waiting for Feasibility study - Feb/Mar 2013	Marsh Creek	REGF 4 684	Connie Fredenberg, Marsh Creek

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New Stuyahok Wind Feasibility & Concept Design	20	46,091		Feasibility and Conceptual Design (REF 3)	Design & Permitting	No	Resolve old airport land value with DOT&PF if construction at this site is deemed attractive after the feasibility study is completed.	AVEC, City of New Stuyahok	REGF 3 515	
Nushagak Community Wind Power Project	20	56,913		Feasibility and Conceptual Design (Not funded by REF. Maybe privately funded by NETC)	Final Design and Permitting	No	Update CDR with new wind data from Cinnabar Mtn, consider other sites, equipment and project size	NETC with Marsh Creek	REGF 4 633	
Pilot Point Wind-Diesel-CHP (High Penetration)	20	18,462	4,182	Feasibility and Conceptual Design (REF 2 & 3)	Final Design and Construction	Yes	Allocation of final design funds will be made through an amendment to this grant after the 65% design report is submitted for approval	City	REGF 3 App and AEA Analysis,	
Port Alsworth Wind Project 1	20	28,439	0	Feasibility Study complete	Final design, permitting and construction	No	Look for financing and investigate community acceptance of a wind turbine on the lake shore	L&P Borough or Port Alsworth	Knight Piesold Wind Resource Assessment Final Report 10-20-11	Chris Mertes at Knight Piesold
Port Alsworth Wind Project 2	20	49,536	0	Feasibility Study complete	Final design, permitting and construction	No	Look for financing and investigate community acceptance of a wind turbine on the lake shore	L&P Borough or Port Alsworth	Knight Piesold Wind Resource Assessment Final Report 10-20-11	Chris Mertes at Knight Piesold
Port Heiden Wind & Power Distribution Upgrade	20	18,882	49,015	Design and Permitting (design complete, permitting complete or in process) (REF 4, \$250K)	Construction	Maybe: AEA tentative (FY14 Design, FY15 Construct)	Wind: On hold pending conceptual design work for the diesel power plant and distribution system.	Borough	REGF 4 Grant App and AEA Analysis	AEA Resource Managers, phone