

ENERGY AND WATER DEVELOPMENT
FY 2010 MEMBER REQUESTS

	A	E	F	K (Attachment C)	L	O	P	Q
1	Member	Project Name	Project Recipient	Project Purpose	Project Benefit to Taxpayer	Funding (in Thousands of Dollars)		
2			Name			FY 2008	FY 2009	FY 2010
3	Begich	Southwest Alaska Regional Geothermal Energy Project	Naknek Electric Association	Completion of a 25 MW generation plant and phased interconnection providing reliable geothermal energy to 25 remote off-the-grid communities in Southwest Alaska.	Investing in renewable energy will advance energy independence and decrease environmental liability while expanding energy sector business opportunities and employment.	NA	NA	2000
4	Begich	Village Wind Program	Bering Straits Native Corporation	Project will install wind turbines in villages of Unalakleet, Brevig Mission, Shishmarek, Shaktoolik, Golovin, and Elim.	In addition to the energy savings and employment derived from this project, the revenue for local energy production stays in local economy instead of local economy paying for imported fuel. The project also helps lower energy prices for residents.	NA	NA	2000
5	Begich	Geothermal Energy Project	Fairbanks North Star Borough	To perform research and development work on an enhanced geothermal system designed to replace the 9 MW combined heat and power unit located on the campus at University of Alaska, Fairbanks. The project will model potential geothermal resources located under the campus at various depths.	This project would conduct research into a clean, renewable source of power for a community of 100,000 people. It would lower energy costs while improving air quality.	NA	NA	5000
6	Begich	Harbor Project	Unalaska City of	Construction of a breakwater and floating wave barriers for the new small boat harbor.	Develop the port infrastructure, expanding the harbor to allow growing size of both the permanent and temporary fishing fleet that berths at Dutch Harbor.	6,553,000	2,871,000	8000

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7	Begich	Bethel Bank Stabilization	Bethel City of	Replacement of tiebacks, which are corroded and in need of replacement to improve safety of the seawall.	Completion of project will improve safety of the seawall, the safety of Port operations on and near this section of the seawall, and the safety of tug and barge operators who use the seawall for moorage.	NA	NA	1000
8	Begich	Renewable Energy Expansion Program	Alaska Village Electric Cooperative (AVEC)	Installation of 54 wind turbines in 22 of the 53 rural Alaska villages serviced by AVEC (the project will impact/provide benefits for a total of 36 vilages through interties).	Through the implementation of this project, AVEC expected to achieve a 25% reduction in the cooperative's annual diesel fuel consumption (1,140,266 gallons) which is estimated to save AVEC and its membership more than \$5,000,000 each year in fuel costs.	NA	NA	5000
9	Begich	Chuniisax Creek Hydro Electric Power Project	Atka City of	Feasibility Analysis and pre-engineering for hydropower projects.	Developing a highly desirable form of cheap power, this project will create jobs and allow local businesses to expand to almost year-round operation.	NA	NA	948.639
10	Begich	Port of Bristol Bay Expansion Phase 1	Bristol Bay Borough	Expand the 27-year-old Port of Bristol Bay Dock by constructing a sheet pile dock addition of 200 feet down river next to the existing concrete dock.	The measurable benefits will be immediate work for local construction workers and sustained jobs throughout the region for many years in the future. The dock will provide the necessary infrastructure to allow for growth and enhance the quality of life for the thirty-one communities dependent on it to provide a sustainable income for residents.	NA	NA	1000

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11		Gas Utility	City of Cordova	Installation of utility gas service in the City of Cordova, provide a gas inventory for the utility, and feasibility and preliminary engineering funds for the development of biogas generation, a renewable energy resource, from fish waste and other organic sources in Cordova.	The installation of gas utility service in City of Cordova will benefit the approximate 2,400 residents and will significantly lower the cost of energy to these residents. It will eliminate the burning of a carcinogenic fuel in homes and businesses in the community, and improve local air quality and human health. Development of biogas will further reduce energy costs, provide additional employment in the community, and reduce marine pollution in the region.	NA	NA	5000
12	Begich	Powerplant Upgrade	Ekwok City of	Purchase and install new and larger capacity generators to replace aging set for better efficiency and reliability.	Will provide greater power efficiency and reliability to residents.	NA	NA	250
13	Begich	East Boat Harbor	Homer City of	Construction of a new harbor to accommodate the large commercial vessels currently congesting the harbor.	The project will address security problems related to the vulnerability of the U.S. Coast Guard vessels currently moored at the Pioneer Dock. It will also provide economic benefits to the region with additional mooring for commercial vessels.	172	400	400
14	Begich	Bluff Erosion Stabilization	Kenai City of	Construction of a bluff stabilization structure for the Kenai River.	Will control the ongoing bluff erosion, which is resulting in loss of capital investments, decreased property values, loss of city infrastructure and historical resources.	300	NA	13000
15	Begich	Hydropower Project/Grant Lake Phase	Nushagak Electric and Telephone Cooperative	Construction of Nushagak Area Hydropower Project.	Will replace diesel generated electricity with clean renewable power, save millions in fuels expenses, and stabilize electric rates currently object to high volatility.	NA	NA	1000

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16	Begich	Wind/Diesel Expansion	Kotzebue Electric Association	Project involves a Wind Plant upgrade, installation of a Vanadium Red-Fox Battery Energy Storage System, and the installation of a stack heat recovery unit.	Project will reduce use and dependency on diesel usage, lowering energy costs for residents.	200	NA	150
17	Begich	North Harbor Dredging	Petersburg City of	Dredging to restore the channel to its federally authorized depth.	The harbor improvements are critical to stabilizing Petersburg's marine economy, promoting safe maritime navigation, out of state tourism, interstate commerce and improve access to fishing vessels to Federally-managed fisheries.	NA	500	1500
18	Begich	Lowell Tunnel Repairs	Seward City of	Repair aging flood diversion tunnel in Seward's Lowell Canyon.	Will protect public health and safety through natural disaster mitigation and improved flood control.	NA	500	1000
19	Begich	Areawide Waste Heat Recovery	North Slope Borough	Will install heat exchangers and other equipment for the purpose of capturing heat in the form of hot water used to heat Borough facilities.	The waste heat system would save thousands of gallons of fuel annually, saving operation dollars and reducing village fuel consumption.	NA	NA	1000
20	Begich	High Penetration Wind Power	Tatitlek IRA Council	Provide high penetration hybrid wind turbine/diesel power station in the Village of Tatitlek.	Will save the community 32% on energy generation from diesel, and average of \$3854 per household per year.	NA	NA	500

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21	Begich	Boat Harbor	Akutan Harbor	Construction of a boat Harbor in Akutan to satisfy the needs of the seafood fleet that are currently forced to jog in place in the bay while waiting.	During fishing seasons vessels are forced to jog in place in the bay by anchoring with engines running. These boats take a beating, and are at risk of running aground and creating environmental hazards during the frequent periods of extreme weather.	468.384	3000	7000
22	Begich	Breakwater and Transient Mooring Facility	Gustavus City of	Construction of a steel breakwater float and a timber mooring float as part of a multi-phase replacement of the existing dock and trestle facility.	New facility will provide economic advantages, improved access for all small boats, increase through-traffic for the City which will allow an increase in transient boaters and opportunities to expand services to private boaters and commercial charter customers.	NA	NA	1350
23	Begich	Boat Harbor	Haines Borough of	Study for new harbor construction.	The project will support the community's access to Federal fisheries, promote interstate commerce and tourism and fit the Federal mission of the Army Corps to promote safe and efficient maritime navigation.	NA	NA	500
24	Begich	Levee Rehabilitation	Aniak City of	Correct deficiencies to the Aniak Levee.	During a routine inspection, the Aniak Levee was rated minimally acceptable, indicating maintenance is required to prevent loss of life and catastrophic damage.	NA	NA	1200

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25	Begich	St. George Harbor	Aleutian Pribilof Island Community Development	Improvements to the St. George Harbor needed to make the harbor fully operational, safe, and reliable.	Located in the Central Bering Sea, the Harbor is central to one of the largest commercial fisheries in the world.	NA	NA	5000
26	Begich	Shoreline Emergency Bank Stabilization	Dillingham City of	Project will install a breakwater and shoreline revetment to reduce the erosive wave action within the harbor and protect the shoreline and the Bristol	The Army Corps of Engineers reported if nothing is done to stabilize the shoreline, 3.39 acres of land over the next 50 years will be lost, including destruction of existing bulkhead and	NA	NA	3000
27	Begich	Wind Tower Project	False Pass City of	Study for purchase and installation wind towers to produce cleaner and more economic electricity for residents.	Will lower energy prices for residents, and encourage potential businesses and economic growth.	NA	NA	21
28	Begich	Flood Mitigation Measures	Kenai Peninsula Borough	To produce and implement a cohesive, long-term plan to reduce or eliminate flood risk to property, infrastructure and lives.	In addition to reducing the risk of flooding for neighboring communities, the project would result in work for many local contractors in an area where year-round work is limited.	NA	NA	3000
29	Begich	Erosion Prevention--Deering	Northwest Arctic Borough	Preventative revetment to protect Deering from erosion before it becomes an emergency situation.	Will protect the community of Deering from erosion, a threat to private and city property.	NA	NA	2000
30	Begich	Causeway Extension Study	Nome City of	Construction of 3,600 foot causeway to support medium-draft ocean-going vessels.	With increased vessel traffic, the causeway is necessary for security and environmental issues that will arise with larger vessels.	NA	NA	500

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31	Begich	Black Lake Aquatic Restoration Project	Chignik Regional Aquaculture Association	Design the protective means to remediate the causes for the loss of water volume in Black Lake thereby restoring the lake to its form biological productivity.	Will benefit fish and wildlife, subsistence uses, and sport and commercial fishing.	NA	NA	750
32	Begich	Northwest Alaska Interties and Mini Grids	NANA Inc.	Study for the construction of approximately 88 miles of transmission lines (at a cost of \$400,000/mi) to enable more efficient production of power in the region.	Where community electrical systems are connected together, capital-intensive renewable energy generation can be shared among multiple villages.	NA	NA	500
33	Begich	Small Boat Harbor Renovations	Skagway City of	Renovate small boat harbor by dredging, replacing existing floating docks, and extending existing mooring system.	Improve marine economy, tourism, and promote safe maritime navigation.	NA	NA	1000
34	Begich	Multi-use Cargo Dock Site	Pelican City of	Dredging out deposition of sediments, installation of multi-use heavy cargo facilities.	Will expand small business development in and around the Pelican area and northern Chigagof Island targeting fish processing operations and businesses that support fishing. Provides a long-term economic base to realize the full utilization of container shipment of goods in and export out of Pelican.	NA	NA	1500

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35	Begich	Small Boat Harbor	Kotzebue City of	Project will include dredging of a portion of Swan Lake. Dredging materials will be used as fill for expanding the Swan Lake facility. A boat ramp will also be built to boats can be stored and secured on the property while this facility is closed during the winter months.	Provide a larger site to accommodate many boat and subsistence users displaced from the Shore Avenue Project, expected to commence in 2009.	NA	NA	1500
36		Municipal Dock Construction	Old Harbor City of	Provide the community of Old Harbor with a replacement for a dock that is more than 35 years old, in disrepair, no longer safe and does not provide the needed depth for possible Alaska marine highway use.	The Old Harbor commercial fishing fleet requires a dock for hear offloads and to transfer product for commercial and subsistence uses. A dock facility is the only way to provide this service. Moreover, freight service to Old Harbor was suspended two years ago and the cost of living in the community has increased substantially. A new dock facility would allow the Alaska Marine Highway system to occasionally visit the community and larger freighters to tie up and offload.	NA	NA	1500
37		Alaska Local Climate and Energy Assistance	ICLEI	Provide technical assistance and training to local governments throughout Alaska to help them develop and implement local action plans aimed at decreasing energy consumption and reducing green house gas emissions.	Will help communities develop energy and emissions inventories, quantify the impact of various reduction measures, set reduction targets, and track progress toward meeting the goal.	NA	NA	750

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38	Begich	Replacement Dock	Ouzinkie City of	Replace the badly deteriorated 45-year-old and dysfunctional wood pile and timber dock with a new dock built with rock and steel bulkheads to assure continued transportation for this commercial fishing community.	Ouzinkie (on Spruce Island 12 miles from the City of Kodiak) is a commercial fishing community that in the top 4 commercial fisheries in the United States. If a replacement dock is not built at Ouzinkie, there will be a loss of jobs in the community, as the dock is (and always has been) the crucial economic underpinning of this commercial fishing community's economy.	NA	NA	4732
39		Harbor Breakwater Extension	Sitka, City of	Construct a spending beach and/or a rubblemound breakwater and an additional 400 LF rubblemoun breakwater to close the gap between the stub and main breakwater.	Reduce excessive harbor deterioration, damage, and unsafe conditions.	NA	NA	10,000