

Budget Narrative
Prepared by: Electric Power Systems, Inc. for City of Nome

Consolidated Budget

BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	TOTAL PERSONNEL	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL FRINGE BENEFITS	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL EQUIPMENT	\$3,715,000	\$7,715,000	\$5,250,000	\$0	\$0	\$16,680,000
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL CONTRACTUAL	\$9,138,000	\$24,378,500	\$14,436,500	\$2,397,000	\$0	\$50,350,000
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$12,853,000	\$32,093,500	\$19,686,500	\$2,397,000	\$0	\$67,030,000
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$12,853,000	\$32,093,500	\$19,686,500	\$2,397,000	\$0	\$67,030,000

BUDGET BY PROJECT			
Project Number	Project Name	Total Cost	% of Total
1	Name 1	\$11,950,000	18%
2	Name 2	\$42,220,000	63%
3	Name 3	\$12,860,000	19%
4	Name 4	\$0	0%
5	Name 5	\$0	0%
Total		\$67,030,000	100%

Detailed Itemized List Measure 1 - Solar Electric Generation

CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Personnel, Fringe Benefits, Travel, Equipment, Supplies, Other						
						\$0
						\$0
						\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0
Contractual						
Solar (3 MW), turn-key system with equipment, materials, site installation, inverters	\$7,189,000	\$2,567,500	\$513,500			\$10,270,000
Site distribution connection/transformer		\$310,000				\$310,000
System testing	\$30,000	\$30,000				\$60,000
Engineering, 6% of construction cost (excluding Equipment)	\$441,000	\$126,000	\$63,000			\$630,000
Project Management and Administration (6% of Equipment and all other Contractual costs)	\$226,667	\$226,667	\$226,667			\$680,000
TOTAL CONTRACTUAL	\$7,886,667	\$3,260,167	\$803,167	\$0	\$0	\$11,950,000

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Notes: Contractual costs were based on a recent construction quote for a project of similar size in a similar remote-Alaska location. Electric Power Systems and Electric Power constructors worked closely with a solar vendor to provide accurate material and construction costs in Nome. The numbers were built on recent construction quotes for multiple projects in rural Alaska.

TOTAL DIRECT	\$7,886,667	\$3,260,167	\$803,167	\$0	\$0	\$11,950,000
Indirect Costs						
						\$0
						\$0
TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$7,886,667	\$3,260,167	\$803,167	\$0	\$11,950,000

Detailed Itemized List Measure 2 - Wind Electric Generation / Battery Energy Storage System

CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Personnel, Fringe Benefits, Travel, Supplies, Other						
						\$0
						\$0
						\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

Equipment						
Site 1, 1 Wind Turbine, Base Cost (DW58-1000 HH59)	\$800,000	\$800,000				\$1,600,000
Site 1, Wind Turbine, Additional Equipment (Wind Curtailment, Aviation Lights, Reactive Power Control, etc)	\$60,000	\$60,000				\$120,000
Site 1, 1 Wind Turbine, Shipping to Seattle Port		\$420,000				\$420,000
Site 2, 4 Wind Turbines, Base Cost (DW58-1000 HH59)		\$3,340,000	\$3,340,000			\$6,680,000
Site 2, 4 Wind Turbines, Additional Equipment (Wind Curtailment, Aviation Lights, Reactive Power Control, etc)		\$240,000	\$240,000			\$480,000
Site 2, 4 Wind Turbines, Shipping to Seattle Port			\$1,670,000			\$1,670,000
BESS System, 5 MW	\$2,855,000	\$2,855,000				\$5,710,000
						\$0
						\$0
TOTAL EQUIPMENT	\$3,715,000	\$7,715,000	\$5,250,000	\$0	\$0	\$16,680,000

Notes: Equipment wind turbine costs are based on quotes for equipment with consideration for the electrical requirements, seismic potential, and remote site considerations. Similarly, the BESS system pricing is based on experience with several recent BESS related projects that EPS has been involved in, including the ongoing BESS project in Nome which is the foundation for the City of Nome's renewable energy plans.

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Contractual						
Site 1, 1 Wind Turbine, Construction Contract, Mobilization and Demobilization. Includes transportation of minor materials, construction equipment, job shacks, etc.		\$870,000				\$870,000
Site 1, Install anchor rods for wind turbine		\$140,000				\$140,000
Site 1, Civil construction to prepare the ground for equipment installation.		\$670,000				\$670,000
Site 1, Concrete foundations for turbines		\$550,000				\$550,000
Site 1, Transportation/consolidation cost for major equipment and construction materials from Seattle port to work site.		\$1,490,000				\$1,490,000
Site 1, Electrical connection for 1 turbines to site electrical infrastructure			\$300,000			\$300,000
Site 1, System testing			\$80,000			\$80,000
Site 1, Engineering, 6% of construction cost (excluding Equipment)	\$200,000	\$25,000	\$25,000			\$250,000
Site 1, Project Management and Administration (6% of Equipment and all other Contractual costs)	\$130,000	\$130,000	\$130,000			\$390,000
Site 2, 4 Wind Turbines, Construction Contract, Mobilization and Demobilization. Includes transportation of minor materials, construction equipment, job shacks, etc.			\$1,760,000			\$1,760,000
Site 2, Install anchor rods for wind turbines			\$580,000			\$580,000
Site 2, Civil construction to prepare the ground for equipment installation.			\$1,430,000			\$1,430,000
Site 2, Civil construction to develop access road to project site			\$3,580,000			\$3,580,000
Site 2, Concrete foundations for turbines			\$2,190,000			\$2,190,000
Site 2, Transportation/consolidation cost for major equipment and construction materials from Seattle port to work site.			\$1,670,000			\$1,670,000
Site 2, Electrical connection for 4 turbines to site electrical infrastructure				\$1,190,000		\$1,190,000
Site 2, System testing				\$320,000		\$320,000
Site 2, Engineering, 6% of construction cost (excluding Equipment)		\$1,016,000	\$127,000	\$127,000		\$1,270,000
Site 2, Project Management and Administration (6% of Equipment and all other Contractual costs)		\$760,000	\$760,000	\$760,000		\$2,280,000
Site 3 (BESS), Construction Contract, Mobilization and Demobilization. Includes transportation of minor materials, construction equipment, job shacks, etc.		\$300,000				\$300,000
Site 3, Civil construction to create access road to site and prepare site		\$190,000				\$190,000
Site 3, Civil to create pads for BESS equipment installation		\$540,000				\$540,000
Site 3, Transportation/consolidation cost for major equipment and construction materials from Seattle port to work site.		\$1,130,000				\$1,130,000
Site 3, Installation of site electrical infrastructure and connection to equipment		\$610,000	\$610,000			\$1,220,000
Site 3, System testing			\$110,000			\$110,000
Site 3, Engineering, 8% of construction cost (excluding Equipment)	\$224,000	\$28,000	\$28,000			\$280,000
Site 3, Project Management and Administration (8% of Equipment and all other Contractual costs)	\$253,333	\$253,333	\$253,333			\$760,000
TOTAL CONTRACTUAL	\$807,333	\$8,702,333	\$13,633,333	\$2,397,000	\$0	\$25,540,000

Notes: Contractual pricing was developed based on a construction cost estimate developed in 2022

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for a similarly sized project. This was augmented with engineering and PM/Admin costs based on typical design build projects of this scale. Major material pricing was received from vendors for the equipment. Installation and labor costs have been developed based on past project experience.

TOTAL DIRECT	\$4,522,333	\$16,417,333	\$18,883,333	\$2,397,000	\$0	\$42,220,000
Indirect Costs						
						\$0
						\$0
TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING	\$4,522,333	\$16,417,333	\$18,883,333	\$2,397,000	\$0	\$42,220,000

Detailed Itemized List Measure 3 - Cape Nome Distribution Line

CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Personnel, Fringe Benefits, Travel, Equipment, Supplies, Other						
						\$0
						\$0
						\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

Contractual						
Procurement material for 14 miles of 25kv distribution		\$1,960,000				\$1,960,000
Procurement material for upgrade to 25kv for existing distribution		\$6,800,000				\$6,800,000
Installation of new 25kv line from Nome River to Cape Nome		\$900,000				\$900,000
Upgrade existing distribution line to Nome River to 25kv		\$2,190,000				\$2,190,000
Engineering/Permitting 5% of total cost	\$392,000	\$98,000				\$490,000
Project Management and Administration 5% of project	\$52,000	\$468,000				\$520,000
						\$0
						\$0
						\$0
TOTAL CONTRACTUAL	\$444,000	\$12,416,000	\$0	\$0	\$0	\$12,860,000

Notes: The Distribution Line pricing is based on 65% design drawings and a construction estimate completed by Electric Power Constructors. This estimate includes material and labor pricing. Electric Power System and Electric Power Constructors have worked on multiple distribution projects in the last 5 years with similar scope. The estimate for the project is accurate based on current material and labor pricing.

TOTAL DIRECT	\$444,000	\$12,416,000	\$0	\$0	\$0	\$12,860,000
Indirect Costs						
						\$0
						\$0
TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING	\$444,000	\$12,416,000	\$0	\$0	\$0	\$12,860,000

Expenditure of Awarded Funds

For any and all contracts and procurement associated with funding received through this project, City of Nome will comply with applicable federal procurement guidelines and follow our procurement guidelines which were developed to ensure compliance with both state and federal grants requirements. Both the City of Nome and NJUS, its component business unit, have independent audits performed annually. Both organizations have staff qualified and experienced in developing solicitations for Requests for Proposals (RFP's) and negotiating contracts for completion of project components.

Each Finance Department provides financial management and accounting functions for all City/NJUS funds. Past and current grant awards have successfully met federal and state audit standards and have followed all regulatory requirements. The Management Team meets weekly to review grant-funded projects. Project management software is used to track assignment and completion of tasks, due dates of reports and deliverables, project scheduling, and completion of grant requirements. Progress and financial reports are completed regardless of whether expenditures or progress on the project were made during the reporting period. Both the City of Nome and NJUS have successfully managed multiple Federal, State, foundation, corporate, and private grants. Due to Nome's short summer construction season, many projects are multi-year projects.

An general outline of the City of Nome's approach, procedures, and controls for ensuring that awarded grant funds will be expended in a timely and efficient manner within the grant period is as follows:

Pre-Grant Planning and Budgeting:

- Conduct thorough pre-grant planning to determine the objectives, scope, and budget of the project.
- Develop a detailed budget that aligns with the grant guidelines and covers all project expenses.
- Allocate funds appropriately across different project components and activities.

Establishment of Controls:

- Implement robust financial controls and procedures to ensure compliance with grant requirements and regulations.
- Designate a grant administrator or project manager responsible for overseeing fund expenditure and adherence to timelines.
- Develop clear guidelines and policies for expenditure approval, documentation, and reporting.

Monitoring and Reporting Mechanisms:

- Regularly monitor expenditure against the budget to track spending patterns and identify any deviations.
- Implement a system for documenting all expenses, including invoices, receipts, and payment records.
- Generate timely financial reports to provide stakeholders with updates on fund utilization and project progress.

Timely Payment Processing:

- Streamline payment processing procedures to ensure prompt settlement of invoices and bills.
- Prioritize payments based on urgency and impact on project activities.

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-Establish clear protocols for verifying the accuracy and legitimacy of invoices before processing payments.

Contract Management:

- Maintain effective contract management practices to ensure that all contractual obligations are met within the grant period.
- Monitor vendor performance and compliance with deliverables to prevent delays and budget overruns.
- Renew or renegotiate contracts as necessary to accommodate changes in project scope or requirements.

Risk Management:

- Identify potential risks that could impact the timely expenditure of grant funds, such as budgetary constraints, resource shortages, or external factors.
- Develop contingency plans to mitigate risks and address any unforeseen challenges that may arise.
- Regularly review and update risk assessments to adapt to changing circumstances throughout the project lifecycle.

Communication and Collaboration:

- Foster open communication and collaboration among project team members, stakeholders, and funding agencies to ensure alignment on project objectives and priorities.
- Hold regular meetings and checkpoints to discuss expenditure status, address concerns, and make necessary adjustments to the budget or project plan.
- Maintain transparency in financial reporting and decision-making processes to build trust and confidence among stakeholders.

Compliance and Audit Oversight:

- Conduct periodic internal audits to assess compliance with grant requirements, financial regulations, and organizational policies.
- Prepare for external audits by maintaining accurate and up-to-date financial records and documentation.
- Address any findings or recommendations from audits promptly and implement corrective actions to strengthen controls and improve efficiency.