MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2026-648
Item to be Scouted	BABA: Generator
Days to be scouted	14
Response Due By	11/26/2026
Description	A 100 kW commercial standby generator is an industrial-grade, liquid-cooled electrical power generation system designed to provide automatic backup electricity during utility power outages or other interruptions to the primary

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
	starting system, and protective enclosure. The unit is designed for stationary outdoor installation and can operate on natural gas or liquid propane (LP) fuel, depending on the selected configuration. The generator produces three-phase electrical power at 60 Hz and is available in configurations suitable for 480Y/277V electrical distribution systems. It is designed to supply emergency and standby electrical loads in commercial and multifamily residential buildings, including emergency lighting, fire alarm systems, elevators, domestic water pumps, security systems, and other designated building equipment. The system incorporates automatic starting and generator monitoring capabilities, allowing it to detect a loss of utility power, initiate engine operation, and supply backup electricity through an appropriately sized automatic transfer switch. The generator is available with weather-protective and sound-attenuated enclosures to protect internal components from environmental exposure and reduce operating noise. The equipment is intended for permanent installation in commercial, institutional, and multifamily residential applications where reliable backup electrical power is necessary to maintain building operations and support designated life-safety and emergency systems.
State item to be used in	Minnesota

Describe the manufacturing processes (elaborate to provide as much detail as possible)	The manufacturing process involves producing and assembling mechanical, electrical, and structural components into a complete commercial standby power generation system. Engine Manufacturing: The engine block, cylinder heads, crankshaft, pistons, and connecting rods are manufactured through metal casting, forging, CNC machining, grinding, and precision finishing. Engine Assembly: Internal engine components are assembled with the fuel delivery, lubrication, cooling, ignition, and exhaust systems. Alternator Manufacturing: Electrical-grade steel laminations are stamped and assembled into the stator and rotor. Copper windings are installed, insulated, and tested before final alternator assembly. Structural Frame Fabrication: Steel plates, tubing, and structural sections are cut, bent, welded, drilled, and assembled to create the generator's mounting base and support frame. Enclosure Manufacturing: Steel or aluminum panels are cut, formed, welded, and assembled. Protective coatings, ventilation components, access doors, and sound-attenuating materials are installed as required. Electrical Control Assembly: Control panels, circuit boards, wiring harnesses, sensors, relays, circuit breakers, and monitoring devices are installed and connected. Mechanical System Integration: The engine, alternator, radiator, cooling fan, fuel system, exhaust components, starter motor, and battery system are assembled onto the structural frame. Final Assembly: Mechanical and electrical components are connected, aligned, secured, and inspected. The completed generator is enclosed and prepared for operational testing. Quality Control and Testing: The generator undergoes visual inspections, electrical testing, engine operation testing, load bank testing, voltage and frequency verification, and safety system checks. Packaging and Shipment: Following successful testing, the generator is labeled, documented, protected, packaged, and shipped to the customer or installation location. The finished product is an integrated standby power generation system manufactured through metal fabrication, precision machining, electrical assembly, welding, coating, and industrial equipment integration processes.

Provide dimensions / size / tolerances / performance specifications for the item	Generator type Industrial standby Rated output 100 kW Apparent power 125 kVA Fuel Natural gas or LP vapor Engine 8.8L PSI V8, current model Engine speed 1,800 RPM Frequency 60 Hz Phase Single- or three-phase configurations Cooling Liquid-cooled Starting Electric start Controller Deep Sea G8601 Alternator Brushless Enclosure Steel or aluminum Certification UL 2200, 3rd Edition Emissions EPA-certified emergency For a 480Y/277V three-phase configuration: Electrical characteristic Specification Voltage 480/277V Phase 3 Frequency 60 Hz Standby capacity 100 kW Apparent power 125 kVA Power factor 0.8 Full-load current 151 amps Prime rating 90 kW Prime current 135 amps
List required materials needed to make the product, including materials of product components	Structural Materials: Carbon steel, stainless steel, aluminum alloys, steel tubing, sheet metal, and mounting plates for the generator frame, base, enclosure, and support structures. Engine Components: Cast iron or aluminum alloys for the engine block and cylinder heads, forged steel for the crankshaft and connecting rods, aluminum alloy pistons, steel valves, and various metal fasteners. Electrical Materials: Copper wire, electrical-grade laminated silicon steel, insulating varnishes, electrical-grade resins, circuit boards, wiring harnesses, relays, sensors, and electrical connectors for the alternator and control system. Cooling System Materials: Aluminum or copper radiator components, rubber coolant hoses, steel or aluminum fittings, plastic fan components, seals, gaskets, and coolant. Fuel and Exhaust Components: Steel or stainless steel piping, fuel regulators, valves, exhaust tubing, exhaust silencers, and heat-resistant gaskets. Enclosure and Insulation Materials: Steel or aluminum panels, corrosion-resistant coatings, powder coating materials, sound-attenuating insulation, weather seals, and rubber gaskets. Mechanical Components: Steel bearings, aluminum housings, rubber vibration isolators, mounting brackets, bolts, nuts, washers, and other hardware. Starting System Materials: Lead-acid battery components, copper battery cables, electrical terminals, starter motor components, and battery charging system materials. Finishing and Protective Materials: Industrial primers, protective paints, powder coatings, sealants, corrosion inhibitors, and identification labels.
Are there applicable certification requirements?	Yes
Certification(s) required	UL
Are there applicable regulations?	No

Are there any other stndards, requirements, etc.?	Yes
Details	ANSI 2200:2022 BS5514 and DIN 6271 SAE J1349 NFPA37,70,99,110 NEC 700, 701, 702, 708 NEMA ICS10, MG1,250,ICS6,AB1 ANSI C62.41 IBC 2009, CBC 2010, IBC 2012, ASCE 7-16, ICC-ES
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	This generator install is for the life safety and elevators of a 6 story 92-unit multifamily building.
Estimated target price / unit cost information (if unavailable explain)	Pricing cannot be provided at this time due to the ongoing design finalization process. Additionally, costs vary significantly between suppliers, and there is currently uncertainty regarding potential price increases associated with BABA-compliant versus non-BABA-compliant products. Shipping expenses and labor costs may also vary depending on product availability, supplier location, and installation requirements. As a result, providing an accurate cost estimate at this stage would be premature.
When is it needed by?	Immediate
Describe packaging requirements	Palletized
Where will this item be shipped?	Minneapolis, MN

Additional Comments

Is there other information you would like to include?	Funding: MHFA; Minnesota Housing Finance Agency POC: Nick Hoelscher, nick.h@noorcompanies.com