

# Statement of Work

## Ground Renewable Expeditionary Energy Network System (GREENS)

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## 1.0 PROGRAM BACKGROUND

A need exists for a Ground Renewable Expeditionary Energy Network System (GREENS) that will address the program objectives set forth in this document and the performance requirements of the GREENS Performance Specification. This Statement of Work (SOW) defines the effort for procurement and delivery of GREENS. Additionally, the contractor shall provide the requisite program management and logistics support to ensure that delivery, performance requirements, and overall supportability of the GREENS is accomplished as set forth in the subsequent contract.

This acquisition embraces the use of the contractor's configuration controlled item to the maximum extent possible, along with the vendor's product information, documentation, and manuals to the greatest extent possible.

The contractor will be responsible to establish, maintain, and deliver a configuration item that has been proposed, accepted, and verified by the Government.

The contractor shall consider and implement safety engineering principles in the system design and fabrication of all components. System design and operational procedures developed by the contractor shall identify hazards associated with the system by conducting safety analyses and hazard evaluations. Analysis shall include both operational and maintenance aspects of the system along with potential interface problems with planned subsystems.

This effort includes the associated Program Management, Meeting and Reviews, Testing and Verification, Technical Support, Environmental, Safety, and Occupational Health (ESOH), Configuration Management (CM), Unique Identification (UID), logistics support, commercial technical publications, support equipment, packaging, and transportation.

The contractor is responsible for providing all material services, and necessary support documentation needed to complete the tasks identified in this SOW.

## 2.0 APPLICABLE DOCUMENTS

The following documents specified form a part of this SOW to the extent specified herein. The most recent revision of the referenced document at the time of contract shall be used unless otherwise specified. In the event of conflict between the applicable documents and this SOW, the SOW shall take precedence. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

### 2.1 Military Standards and Specifications - Mandatory

MIL-STD-129 Military Marking for Shipment and Storage  
MIL-STD-130 Identification Marking of U.S. Military Property  
MIL-STD-882 Standard Practice for System Safety  
MIL-STD-2073-1 DoD Standard Practice for Military Packaging

### 2.2 Military Standards and Specifications - Guidance Only

MIL-PRF-29612 Training Data Products  
MIL-PRF-49506 Logistics Management Information  
MIL-PRF-32216 Evaluation of Commercial off-the-shelf (COTS) Manuals and Preparation of Supplemental Data

### 2.3 Military Handbooks - Guidance Only

MIL-HDBK-781 Reliability Test Methods, Plans, and Environments For Engineering Development, Qualification, and Production  
MIL-HDBK-61 Configuration Management Guidance  
MIL-HDBK-129 DoD Handbook Military Marking  
MIL-HDBK-502 Acquisition Logistics  
MIL-HDBK-512 Parts Management

### 2.4 Other Government Documents - Guidance Only

FED-STD-313 Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities  
TMS9310-AQ-SAF-010 Technical Manual for the Navy Lithium Battery Safety Program

### 3.0 PROGRAM SCOPE

#### 3.1 Controller System.

3.1.1 Controller. The contractor shall deliver Controller systems in accordance with the Performance Specification, paragraphs 3.3, 3.8, 3.9 and 3.10, inclusive.

3.1.2 Operations and Maintenance Manual. A paper copy of the manual shall be delivered and over-packed with each GREENS system through the life of the contract.

3.1.3 Warranty. The contractor shall provide a warranty for the Controller System for 24 months or 6000 operating hours, whichever comes first, for all components. The warranty shall commence on the date the system is delivered to the Government. Delivery of parts / service required for warranty support shall be within 14 days of request. The contractor will not perform on-site warranty repairs in contingency areas; however, they will provide parts support. Parts will be shipped to a designated CONUS float location of Camp Pendleton California (CPCA), 29 Palms California (29PCA), Camp Lejeune North Carolina (CLNC), or Quantico Virginia (QVA). The warranty cost proposed shall be all-inclusive to include costs such as time and travel, shipping, and labor.

3.1.4 Software. Any software version changes made between first unit delivery and subsequent delivery shall be back-loaded to all delivered controllers at CONUS sites by the contractor within 30 days of release. Controllers deployed OCONUS will be upgraded by the contractor within 60 days once items are within CONUS.

#### 3.2 Lithium Battery System.

3.2.1 Batteries. The contractor shall deliver Battery systems in accordance with the Performance Specification, paragraphs 3.4, 3.8, 3.9 and 3.10, inclusive.

3.2.2 Warranty. The contractor shall provide a warranty for the Battery System for 500 charge/discharge cycles at 100% depth of discharge for lithium battery components. The warranty shall commence on the date the system is delivered to the Government. Delivery of parts / service required for warranty support shall be within 14 days of request. The contractor will not perform on-site warranty repairs in contingency areas; however, they will provide parts support. Parts will be shipped to a

designated CONUS float location (CPCA, 29PCA, CLNC, or QVA). The warranty cost proposed shall be all-inclusive to include costs such as time and travel, shipping, and labor.

### 3.3 Lead Acid Training Battery System.

3.3.1 Batteries. The contractor shall deliver Battery systems in accordance with the Performance Specification, paragraphs 3.5, 3.8, 3.9 and 3.10, inclusive.

3.3.2 Warranty. The contractor shall provide a warranty for the Battery System for 100 charge/discharge cycles at 50% depth of discharge for lead acid battery components. The warranty shall commence on the date the system is delivered to the Government. Delivery of parts / service required for warranty support shall be within 14 days of request. The contractor will not perform on-site warranty repairs in contingency areas; however, they will provide parts support. Parts will be shipped to a designated CONUS float location (CPCA, 29PCA, CLNC, or QVA). The warranty cost proposed shall be all-inclusive to include costs such as time and travel, shipping, and labor.

### 3.4 Output Power Distribution System.

3.4.1 Output Power Distribution System Components. The contractor shall deliver all components of the Output Power Distribution System in accordance with the Performance Specification, paragraphs 3.6, 3.8, 3.9 and 3.10, inclusive.

3.4.2 Warranty. The contractor shall provide a warranty for the Output Power Distribution System for 24 months, for all components. The warranty shall commence on the date the system is delivered to the Government. Delivery of parts / service required for warranty support shall be within 14 days of request. The contractor will not perform on-site warranty repairs in contingency areas; however, they will provide parts support. Parts will be shipped to a designated CONUS float location (CPCA, 29PCA, CLNC, or QVA). The warranty cost proposed shall be all-inclusive to include costs such as time and travel, shipping, and labor.

### 3.5 Output Paralleling Adaptor System.

3.5.1 Output Paralleling Adaptor. The contractor shall deliver the Output Paralleling Adaptor and support components in accordance with the Performance Specification, paragraphs 3.7, 3.8, 3.9, and 3.10, inclusive.

3.5.2 Warranty. The contractor shall provide a warranty for the Output Paralleling Adaptor for 24 months for all components. The warranty shall commence on the date the system is delivered to the Government. Delivery of parts / service required for warranty support shall be within 14 days of request. The contractor will not perform on-site warranty repairs in contingency areas; however, they will provide parts support. Parts will be shipped to a designated CONUS float location (CPCA, 29PCA, CLNC, or QVA). The warranty cost proposed shall be all-inclusive to include costs such as time and travel, shipping, and labor.

### 3.6 Technical Support.

The contractor shall propose and provide labor categories at fully burdened rate to support the level-of-effort as listed in Section B. This shall be at fixed hourly rates, with individual tasking to be determined at a later date on an "as needed" basis. Such support might include assistance with refining mission roles, additional/surge field support for test and evaluation, detailed performance analysis; resolution of unique technical problems; or providing remedies for unwarranted failures.

### 3.7 Management Data

#### 3.7.1 Product Specification.

The contractor shall maintain, update, and deliver a Product Specification that describes the technical and functional performance of the GREENS. The Product Specification shall be delivered in response to the Request for Proposal. A Final Product Specification Version that is under configuration management shall be delivered as an appendix to the electronic deliverable version of the Operations and Maintenance Manual.

#### 3.7.2 Operations and Maintenance Manual.

This manual shall be one document to address both functions of operations and maintenance. The manual shall contain set-up, operation, troubleshooting and maintenance instructions at the Organizational and Intermediate Levels. The manual shall include a complete repair parts list, which includes expanded schematic views of all assemblies and subassemblies, and a list of any special tools required by the system. The repair parts list shall include, as a minimum, the following associated data

elements: Complete item nomenclature, estimated unit price, unit of issue, Source of Supply. Repair parts list will include Original Equipment Manufacturer's (OEM) part numbers. Delivery timetable and revision control shall be proposed by the offeror. The Government shall have unrestricted rights in usage and publication of the manual. The contractor shall maintain and update (as required) the manual for the life of the contract for any contractor implemented changes. An electronic, editable copy (Microsoft WORD compatible) shall be provided to the Government upon request.

### 3.7.3 Post Award Contract meeting

The contractor shall attend a Post Award Contract meeting at Quantico Virginia within 30 days of contract award.

### 3.7.4 Copyright Release

The contractor shall identify copyrighted material, if any, and shall obtain the written approval of the copyright owner. The contractor shall furnish appropriate copyright release giving the Government permission to reproduce and use copyrighted information. When the contractor uses a manual, which covers a vendor's component(s) or a portion thereof, and the vendor's manual contains copyrighted material, the contractor shall be responsible for obtaining a copyright release from the vendor and providing the copyright release to the Government.

### 3.8 Engineering Data

The contractor shall provide one copy set of outline drawings of all system components and electrical schematics in original source output format (i.e. Pro-E, AutoCad, etc.) and Portable Document Format (PDF).