Statement of Work
SLV-CB – Office Solar Expansion
Alamosa Field Division, Alamosa, Colorado

1.0 Background

The Closed Basin Project (CBP) is a groundwater salvage project located in the San Luis Valley of southern Colorado. The project maintains approximately 170 salvage well sites distributed across roughly 130,000 acres. The San Luis Valley receives substantial annual sunlight and has proven suitable for solar energy generation. Several successful solar installations already exist within the region.

The Alamosa Field Division (AFD) currently operates an existing 10-kW solar array at its main facility. The array is located within the equipment storage area of the AFD main worksite and is currently connected under net metering with Xcel Energy. The existing system consists of one approximately 66-linear-foot structure with 48 panels. Available space exists immediately west of the current array, allowing expansion while using much of the existing connection infrastructure.

This project will expand the existing solar installation to increase renewable energy production, reduce utility costs, improve energy resiliency, and further support sustainability and greenhouse gas reduction goals for the Bureau of Reclamation and the Department of the Interior.

2.0 Scope

The Contractor shall provide all labor, supervision, materials, tools, equipment, transportation, permits, testing, and incidentals necessary to design-support, furnish, install, connect, test, and commission additional solar panels and associated components adjacent to the existing solar array at the Alamosa Field Division main facility.

The work generally includes expansion of the existing solar installation from approximately 10 kW to 25 kW, including but not limited to:

- Site preparation adjacent to the existing array
- Expansion of the solar pad and any necessary barriers or protections
- Furnishing and installation of additional mounting framework

- Furnishing and installation of additional solar photovoltaic (PV) panels
- Furnishing and installation of associated electrical equipment and system components
- Integration with the existing electrical and interconnection infrastructure
- Required permitting, inspections, testing, and commissioning and
- Restoration and cleanup of the work area

The Contractor shall perform the work in a manner that does not unreasonably interfere with ongoing operations at the Alamosa Field Division facility.

3.0 Objectives

The objectives of this project are to:

1. Expand the existing solar generation capacity at the Alamosa Field Division main facility
2. Increase the percentage of facility electrical demand offset by on-site renewable generation
3. Reduce long-term utility costs paid through appropriated funds
4. Improve facility sustainability, resiliency, and energy independence
5. Ensure the expanded solar array is safely integrated with the existing electrical system and utility interconnection and
6. Deliver a complete, tested, and fully operational solar expansion ready for Government use

4.0 Tasks

The Contractor shall perform the following tasks:

Task 4.1 – Project Management and Coordination

The Contractor shall:

- Attend a kickoff meeting with the Government and verify compliance and compatibility with Xcel Energy
- Coordinate with the Contracting Officer (CO) and Contracting Officer's Representative (COR)

- Prepare and submit a project schedule
- Coordinate all construction sequencing and outages, if required
- Maintain communication regarding project status, schedule, and issues affecting performance

Task 4.2 – Site Verification

The Contractor shall:

- Visit the site prior to construction
- Verify dimensions, existing site conditions, and tie-in locations
- Confirm constructability of the expansion area west of the existing array
- Identify any field conditions that may affect installation

Task 4.3 – Design Support / Shop Drawings / Submittals

The Contractor shall prepare and submit, as applicable:

- Product data for solar panels, mounting systems, inverters, and electrical components
- Shop drawings and layout drawings
- Structural and electrical installation details
- Equipment cut sheets
- Installation sequencing and means/methods
- Any required utility or permitting documentation

If alternate or upgraded equipment is proposed (such as higher-efficiency panels, tracking capability, or inverter upgrades), the Contractor shall clearly identify those items for Government review and approval prior to procurement.

Task 4.4 – Site Preparation

The Contractor shall:

- Mobilize to the site and coordinate with local office for site preparation
- Prepare the designated work area for construction
- Perform minor grading, pad expansion, and surface preparation as required

- Install any necessary protective barrier or site improvements associated with the expanded array footprint

Task 4.5 – Furnish and Install Mounting Framework

The Contractor shall:

- Furnish and install all mounting structures, supports, anchorage, and hardware required for the expanded array
- Ensure compatibility with site conditions and applicable structural and electrical requirements
- Install the system in accordance with manufacturer requirements and approved submittals

Task 4.6 – Furnish and Install Solar Panels and Electrical Equipment

The Contractor shall:

- Furnish and install additional photovoltaic panels sufficient to expand the facility solar system to the target capacity identified by the Government
- Furnish and install all balance-of-system components, including wiring, conduit, combiner equipment, disconnects, protective devices, inverter upgrades or replacements if required, grounding, labeling, and related components
- Ensure all equipment is listed, rated, and suitable for the intended outdoor environment and elevation

Task 4.7 – Electrical Integration

The Contractor shall:

- Connect the new solar equipment to the existing electrical infrastructure
- Utilize existing connection infrastructure where feasible and approved
- Coordinate all required utility interconnection activities with the serving utility, if applicable
- Perform any required shutdowns or tie-ins in coordination with the Government.

Task 4.8 – Permitting, Inspection, Testing, and Commissioning

The Contractor shall:

- Obtain and coordinate all required permits, inspections, and approvals necessary for installation and operation
- Perform electrical testing, startup, and system verification
- Commission the completed system
- Demonstrate that the system is functioning properly and safely

Task 4.9 – Training and Closeout

The Contractor shall:

- Provide basic operations and maintenance orientation to Government personnel
- Provide as-built documentation
- Provide equipment manuals, warranty information, and test/commissioning reports
- Complete final cleanup and remove construction debris from the site

5.0 Delivery

The Contractor shall provide the following deliverables to the Government:

5.1 Pre-Construction Deliverables

- Project schedule
- Site verification report (if requested by the Government)
- Product data and equipment submittals
- Installation drawings
- Safety plan / Activity Hazard Analysis (AHA)
- Quality control plan
- Permitting and utility coordination documentation, as applicable.

5.2 Construction Deliverables

- Weekly or periodic progress updates, as requested by the Government
- Notice of any unforeseen field conditions, schedule impacts, or proposed changes.

5.3 Closeout Deliverables

- Commissioning and startup report

- Testing results
- Inspection approvals and permit closeout documentation
- Manufacturer warranties
- Operations and maintenance manuals
- As-built drawings
- Final acceptance package.

All deliverables shall be submitted electronically unless otherwise directed by the Government.

6.0 Government-Furnished Property

The Government will provide access to the Alamosa Field Division facility and the designated work area adjacent to the existing solar array.

The Government may also provide, for Contractor use and coordination purposes:

- Existing site information and available drawings, if available
- Access to the existing solar array location and existing electrical tie-in points
- Coordination with facility staff and utility stakeholders, as required

Unless specifically identified in writing by the Government, all labor, materials, tools, equipment, temporary utilities, and construction means and methods shall be provided by the Contractor.

7.0 Security

The Contractor shall comply with all applicable Bureau of Reclamation and site-specific safety and security requirements while performing work at the Alamosa Field Division facility.

At a minimum, the Contractor shall:

- Coordinate site access with the Government in advance
- Ensure all personnel sign in and out as required
- Restrict work activities to approved work areas
- Maintain control of tools, materials, and equipment
- Comply with all safety requirements, including OSHA and site-specific safety procedures

- Immediately report accidents, incidents, property damage, or security concerns to the COR.

The Contractor shall be responsible for securing its own materials, equipment, and work area during the period of performance.

8.0 Place of Performance

The place of performance for this work shall be:

Alamosa Field Division
Closed Basin Project
Alamosa, Colorado

Work will be performed at the main AFD facility, specifically in the area adjacent to the existing solar array located within the equipment storage area of the site.

9.0 Period of Performance

The anticipated period of performance shall be for 6 months from the Notice to Proceed (NTP).

The Contractor shall complete all work, including installation, testing, commissioning, punch list items, and final closeout, within the established contract performance period.

A tentative project schedule may include:

- Submittals and approvals
- Procurement of equipment and materials
- Site preparation and installation
- Electrical tie-in and startup
- Final testing, commissioning, and acceptance.

Any work requiring utility coordination, service interruption, or restricted access shall be scheduled in advance with the Government.