

1 PROJECT OVERVIEW

1.1 Purpose

The U.S. Department of Veterans Affairs (VA) is seeking to fulfill the mandated federal agency energy management requirements of utility metering as stated in the:

- Energy Policy Acts (EPAacts) of 2005 and 1992
- Executive Order (EO) 13693, "Planning for Federal Sustainability in the Next Decade" (March 2015)
- Energy Independence and Security Act (EISA) (December 2007)
- American Recovery & Reinvestment Act (ARRA 2009) (February 17, 2009) (PL 111-5)
- Farm Security and Rural Investment Act (FSRIA) (2002)
- Energy Conservation Reauthorization Act of 1998
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, aka Superfund) (1980)
- Resource Conservation and Recovery Act (RCRA) (1976)

1.2 Background

VA facilities include Veterans Health Administration, Veterans Benefits Administration, and National Cemeteries Administration facilities. VA's inventory includes over 5,000 owned buildings and about 750M gross square feet (sq. ft.) nationwide. The VA does have leased facilities where the VA pays for the utilities, but they are not to have metering installed as part of the present metering projects.

2 SCOPE OF WORK

2.1 General

This involves the collection, communication, and storage of the meter information at the VA Corporate-Wide Advanced Utility Metering Database located at the Schneider Electric facility in St. Louis, Mo.

This data will be made available to the ION® EEM system monitored by Schneider Electric in St. Louis installed as part of the Pilot Metering Project.

B) Meter Data Integration

Data Integration: The software installed for the Pilot Metering Project used by the central monitoring system is ION® EEM that supports file types .XML, .EXL, .CSV, and .TXT, and can import data from an FTP or SFTP site. The following shall be integrated with the meter data.

- i) Power Monitoring (ION: E or SMS)
- ii) SCADA, Distributed Control (DCS)
- iii) Building Management (BMS), Building Automation (BAS)

- iv) 3rd party Energy Management Systems (EMS)
- v) 3rd Party Data Collection Systems (MV-90, PrimeRead, etc.)
- vi) Production Systems
- vii) Accounting Systems
- viii) Custom databases: Oracle, IBM, Sybase, SQL Server, Access, etc.
- ix) Data Files: Excel, .CVS, .TXT, .XML, etc.
- x) Data from the Internet: Prices, Weather, etc.
- xi) Meter and meter data as defined in the technical specification

The Contractor shall determine and verify the types of data collected and transferred to the VA Corporate-Wide Advanced Utility Metering Database. This shall include, but not be limited to, the data fields, data types, and data format.

The Contractor shall determine if the existing monitoring system design (hardware and software capacity) is capable of incorporating the meter data. If the existing monitoring database must be modified, the contractor shall be responsible for any modifications required to integrate the meter data into the monitoring system.

The contractor shall collect and ingest the data at 15 minute intervals. The Contractor shall retain the data for a period of 18 months. After 18 months the 15 minute interval data shall be rolled up to daily values. These daily values shall be stored for an additional 18 months. Any data beyond 36 months shall be moved to off-line storage.

C) Specifications

The Contractor shall utilize the VA Guide Specifications which are the set of master guide specifications reflecting VA technical policy (<http://www.cfm.va.gov/TIL/spec.asp>)