Federal Facility Solutions (FFS) Suite of Services

This document outlines the Federal Facility Solutions (FFS) company Suite of Services at a High Level.

Company Overview:

- Federal Facility Solutions (FFS) is a Service Disabled Veteran Owned Small Business (SDVOSB) that specializes in HVAC and energy management to help our clients meet the Federal Guiding Principles for Sustainable, High-Performance Buildings.
  
  Ref: https://www.energy.gov/eere/femp/guiding-principles-sustainable-federal-buildings

- FFS leadership is a proven, results-driven technical team with more than 30 years’ experience in engineering, construction, operations and project management specializing in HVAC\Plumbing Engineering, energy management and commissioning.

- FFS is highly experienced in all phases of the Building Information Modeling (BIM) process and use Revit, Navisworks and BIM360 cloud server-based software to assist with the integrated design and construction phases of building new construction and renovation projects, including LEED certified buildings.

- Our integrated Niagara based open protocol building automation & energy management control systems help to operate and continuously commission your buildings to validate each building is operating at peak performance and notify the operations personnel, on-site or remote, as needed.

Services (High-Level): There are Three (3) Main Service Areas

I. Heating, Ventilation, and Air Conditioning (HVAC)\Plumbing Engineering

  - Sustainable designs for energy efficient HVAC systems
    - USGBC LEED accredited designers
    - American Society Heating Refrigerating and Air Conditioning Engineers (ASHRAE) certified Building Energy Modeling Professional to assist in Net Zero energy building design
    - Life cycle cost analysis used to help select the most cost-effective mechanical upgrade solution.
Revit BIM design and construction phase coordination to minimize escalating construction cost and automate facility asset data import to Computerized Maintenance Management System (CMMS) software
Commissioning of complex HVAC & plumbing systems

II. **Energy Management**
   - **Energy Modeling**
     - Computer models of existing and new buildings for analysis of energy conservation upgrades
     - Create scenario analysis to investigate different assumptions and payback analysis
     - Carrier Hourly Analysis & Revit BIM software used for energy modeling
     - ASHRAE certified Building Energy Modeler
   - **Energy Audits**
     - Ensure compliance with Federal, State, Local goals
     - Perform third party audits for comparative analysis
     - Follow ASHRAE
   - **Energy Management Control Systems – Design & Installation**
     - Integrated Niagara\Tridium based open protocol building automation & energy management direct digital control (DDC) that comply with Federal\GSA IT security requirements.
     - Integration to Computerized Maintenance Management System (CMMS) software for automated work order generation based on alarm conditions
     - Chiller Plant Optimization
       - Improve existing design and operation
       - Propose new efficient designs
       - Model performance savings

III. **Program/Project Management**
   - Project Management Institute (PMI) certified Project Management Professionals
   - MS Project enterprise resource loaded scheduling
   - Earned Value Management
   - Lead/Supervise Programs/Projects
     - Design
     - Construction
     - Energy Management Control Systems
     - Commissioning