

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