



**ENGINEERING  
CONSULTANTS®**

# **BUILDING SERVICES**

Capabilities Statement

## **CORE COMPETENCY**

Comprehensive MEP (Mechanical, Electrical, and Plumbing) Engineering Services

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# INTRODUCTION & KEY COMPETENCIES

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## ABOUT US

ECF Engineering Consultants is a highly capable MEP firm specializing in providing comprehensive construction documents that are not only code-compliant but also technically sound and highly constructable. With a history of successful projects and a team of experienced professionals, ECF Engineering Consultants offers a range of services that make us the preferred choice for clients seeking top-tier MEP solutions.

## KEY COMPETENCIES

- 1. MEP Expertise:** Our team of engineers, designers, and technical staff possess extensive knowledge and experience in the field of Mechanical, Electrical, and Plumbing engineering. We excel in delivering innovative solutions that address the unique challenges of each project.
- 2. Code Compliance:** We have a deep understanding of local, state, and national building codes and regulations. Our commitment to staying up-to-date with evolving codes ensures that our designs always meet the latest compliance standards. At ECF, we pride ourselves on minimizing the amount of times a project has to be reviewed.
- 3. Technical Proficiency:** ECF Engineering Consultants utilizes state-of-the-art design and analysis tools to create technically sound and efficient MEP systems. We are proficient in using the latest software and technologies to ensure optimal performance and energy efficiency in our designs.
- 4. Constructability:** We prioritize practicality and constructability in our designs. Our team collaborates closely with other members of the design team to ensure that our plans can be easily implemented in the field, reducing construction delays and cost overruns.
- 5. Quality Assurance:** Our quality control processes involve rigorous reviews and evaluations at each phase of the project, from concept to completion. This commitment to quality ensures that the final construction documents are error-free and meet the highest industry standards.

# PAST PERFORMANCE & DIFFERENTIATORS

ECF Engineering Consultants has successfully completed a wide range of projects in the municipal, commercial, industrial, residential, and institutional sectors. Our portfolio of projects include office buildings, healthcare facilities, educational institutions, and residential complexes, among others. Our past clients have consistently commended our ability to deliver MEP designs that are not only compliant but also highly efficient and cost-effective.



## DIFFERENTIATORS

### COLLABORATIVE APPROACH

ECF Engineering Consultants fosters open communication and collaboration with clients, architects, and contractors to ensure seamless project execution.

### SUSTAINABILITY FOCUS

We are committed to incorporating sustainable practices in our designs to reduce environmental impact and lower long-term operating costs.

### TIMELY DELIVERY

Our efficient project management and workflow processes enable us to meet or exceed project deadlines.

## CERTIFICATIONS AND QUALIFICATIONS

- Florida Licensed Professional Engineers
- ASHRAE and IEEE Memberships
- LEED Accredited Professionals Engineers



# CLIENTS

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## ARCHITECT CLIENTS

- Design 2 Form Architects
- Stuart Architecture
- CPZ Architects
- D7Q Studio Archit4ects
- Ralph Tait Architects
- Savannapub Architects

## MUNICIPAL & GOVERNMENT CLIENTS

- Covanta Waste Recovery
- NextEra Energy
- Florida Power & Lights
- IGNEO Technologies
- HICO America

## COMMERCIAL/INDUSTRIAL CLIENTS

- Covanta Waste Recovery
- NextEra Energy
- Florida Power & Lights
- IGNEO Technologies
- HICO America





# PROVIDED SERVICES

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## MECHANICAL ENGINEERING

- HVAC (Heating, Ventilation, and Air Conditioning) system design.
- Energy-efficient HVAC solutions.
- Indoor air quality analysis and control.
- Building automation and control systems.
- Sustainable and green building design.
- Building Management Systems (BMS).
- Energy Management Systems.

## ELECTRICAL ENGINEERING

- Electrical system design.
- Power distribution and lighting design.
- Electrical panel and circuit design.
- Lighting control and automation.
- Emergency power and backup systems.
- Electrical safety and code compliance.
- Electric Vehicle Charging Stations.
- Renewable energy systems integration (e.g., solar panels).

## PLUMBING ENGINEERING

- Plumbing system design.
- Water supply and distribution systems.
- Drainage and sewage systems.
- Plumbing fixtures and equipment selection.
- Water conservation and sustainability measures.
- Backflow prevention and cross-connection control

## ENERGY ANALYSIS AND SUSTAINABILITY SERVICES:

- Energy modeling and analysis.
- Building energy audits.
- Energy-efficient system recommendations.
- LEED (Leadership in Energy and Environmental Design) and green building certifications.
- Renewable energy system integration.
- Sustainable and eco-friendly design solutions.



# PROVIDED SERVICES CONT.

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## UTILITY COORDINATION & INFRASTRUCTURE DESIGN

- Coordination with utility companies for electrical, gas, water, and sewer connections.
- Infrastructure design for utility connections.
- Substation design for large-scale projects.
- Utility cost analysis and optimization.

## LIFE SAFETY SYSTEMS:

- Fire alarm system design.
- Smoke detection and suppression systems.
- Security system integration.

## COMMISSIONING AND TESTING:

- Testing, adjusting, and balancing (TAB) of HVAC systems.
- Commissioning of MEP systems to ensure they function as designed.
- Verification of system performance and efficiency.







# THANK YOU FOR YOUR CONSIDERATION

ECF Engineering Consultants is ready to provide you with the highest level of expertise and support for your MEP needs. We are dedicated to delivering code-compliant, technically sound, and constructable construction documents, ensuring the success of your projects.

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## CONTACT :

**Jerold H. Parrott**, Senior Director of Building Services



### Call

561-420-8618 Office  
305-785-4369 Cell



### Address

4401 Beacon Circle  
West Palm Beach, FL 33407



### Email

[jparrott@ecfconsultants.com](mailto:jparrott@ecfconsultants.com)



### Website

[www.ecfconsultants.com](http://www.ecfconsultants.com)