



Reinventing Energy

Consulting, Engineering Design, and Design-Build Services
One Contract, One Integrated Team, One Superior Result



Design-build is a well established method of providing comprehensive construction services that combines the design and implementation functions to speed project delivery, provide greater assurance of project quality, and better control costs. With a design-build project, unlike a traditional design-bid-build method, one firm manages and controls the entire project from conception through construction. This single point of accountability gives the client the freedom to concentrate on providing services to its customers rather than worrying about how to manage a construction project on schedule and on budget.

ConEdison Solutions Design-Build Services Goal: No contractor-initiated project change orders.

ConEdison Solutions has earned an excellent reputation for delivering comprehensive design and construction services for hundreds of new construction and renovation projects in commercial, government, education, and health care facilities. Whether mechanical, electrical, plumbing or life safety, we provide professional design services for both building systems and energy/water infrastructure projects.

Design-Build versus Design-Bid-Build

ConEdison Solutions' Design-Build Method



- Less time
- Less money
- Less worry

Traditional Method: Design-Bid-Build



The Process 1 Listen, Learn

We review your project needs, desires, and goals with your team. Our engineers and technical staff will visit your facilities to evaluate existing building systems and infrastructure. This approach assures that you get what YOU want.

2 Report, Recommend

Based on our detailed inspection and consultation with your staff, we recommend a preliminary project design. Regardless of the project size, our designs compare cost versus benefit by analyzing installation costs, energy efficiency, system performance, operations, maintenance, and equipment reliability.

3 Design, Develop

Our engineers develop a final project design that provides the greatest benefit at the least cost. Specific trade subcontractors are reviewed and selected to perform the installation.

4 Construct, Commission

ConEdison Solutions assumes the role of prime contractor, providing a dedicated construction manager to handle all the activities associated with successful project implementation.

5 Service

We are committed to delivering quality service and equipment. Our construction managers are on-site throughout construction to guarantee all installations are completed safely, according to schedule, and with excellent workmanship.

The ConEdison Solutions Design-Build Advantage

Benefits

- ✔ One-stop, turnkey project services
- ✔ Guaranteed maximum price
- ✔ A trusted name in energy
- ✔ Better project quality performance
- ✔ Single point of accountability for entire project
- ✔ Lower costs through innovation and efficiency
- ✔ Reduced owner risk
- ✔ Avoided contractor cost over-runs
- ✔ Faster delivery with fewer delays

Unmatched experience and leadership in energy innovation.

ConEdison Solutions employs over 150 energy professionals. Our staff of energy engineers has a combined knowledge base of over 1,000 years. Our team averages 23 years in general and specialized experience in engineering design, design-build services, energy services and energy performance contracting.

Our corporate legacy in energy and infrastructure dates back over 185 years. That's powerful assurance that the vital energy recommendations that we make are well-informed, environmentally responsible, and financially sound—today and tomorrow.



ConEdison Solutions' Design-Build at work:

**General Services Administration (GSA)
Ted Weiss Federal Building
New York, New York**

CHALLENGE: Since the early 1990's, GSA has pursued the goal of energy efficiency.

SOLUTION: ConEdison Solutions implemented numerous energy-reducing or energy-sensitive operational design recommendations so that the building's mechanical systems operate at peak efficiency.

PROJECT VALUE: \$2.8 million



**Columbia Public Schools
Columbia, Missouri**

CHALLENGE: The Columbia Public School District is comprised of 30 school buildings. Many of these schools are older facilities that were constructed without central air conditioning. The district needed a way to keep elementary summer school students cool during the hottest days of the year.

SOLUTION: ConEdison Solutions installed ground-source heat pumps, one of the most environmentally-friendly and energy-efficient ways to heat and cool a building. An aggressive project schedule was designed so that air conditioning was in place for summer school. In addition, new roofs and full window replacements were installed.

PROJECT VALUE: \$14.1 million



**Miami-Dade County Government
Miami, Florida**

CHALLENGE: Miami-Dade is the 8th largest county in the U.S. with 2.4 million citizens. The County owned two separate district cooling loops in downtown Miami. One of these loops was aged and no longer capable of meeting the growing cooling needs of the downtown area.

SOLUTION: ConEdison Solutions designed and is implementing a cooling plant expansion and interconnection of the two separate district cooling loops. The new combined plant is much more energy-efficient and has a capacity of 19,000 tons and 52,000 ton-hours. ConEdison Solutions also operates and maintains the plant for the County.

PROJECT VALUE: \$20.3 million



Let us help change the way you think about construction.

Start with ConEdison Solutions Design-Build Services

The design-build method for construction is not new; the concept has been around since the middle ages. Back when they were building the grand cathedrals of Europe, architects and engineers knew that they would save their patrons money and time by providing a single focal point of contact that would be responsible for all the work.

At ConEdison *Solutions*, we know that saving money without sacrificing quality is as important now as it ever was. We will incorporate this tried and true design-build method for construction with our expertise in engineering and energy efficiency to deliver a project that we both can be proud of. Let ConEdison *Solutions* assume the risk and give you the peace of mind that comes from knowing your job is being handled by a trusted and experienced expert.

ConEdison *Solutions* is committed to engineering design innovations that foster energy conservation and preservation of natural resources. As we look to earth-friendly, sustainable energy resources, we continue to draw upon the rich heritage of our parent company, Consolidated Edison, Inc., which has proudly served the energy needs of its customers for over 185 years. We are reinventing energy today to help stabilize your energy costs, reduce your carbon footprint, and grow the supply of renewable energy sources for the future.

Take the first step toward reducing your risk on construction projects. Contact your ConEdison *Solutions* representative today.

Facility Needs Assessment and Energy Analysis | Engineering Design | Design-Build and Construction Management
Energy Savings Performance Contracting | District Heating and Cooling | Innovative Project Financing Options



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Accreditations:

One of only eleven Energy Service Providers (ESP) accredited by the National Association of Energy Service Companies (NAESCO)

Certified by the US Green Building Council for LEED assessment

Approved provider of Energy Services by the Department of Energy (DOE) and Department of Defense (DOD) Energy Service Performance Contracting programs

Approved ENERGY STAR® service and product provider

Association of Energy Engineers corporate member

Many of our employees are proud members of:

Association of Energy Engineering (AEE)

American Society of Mechanical Engineers (ASME)

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

American Solar Energy Society (ASES)

Design-Build Institute of America (DBIA)

Institute of Electrical and Electronics Engineers (IEEE)

Illuminating Engineering Society of North America (IESNA)

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