



O'Connell Electric Company

A Hundred Years of Industry Leadership and Innovation

History

In 1968, Walter T. Parkes purchased O'Connell Electric. His objective was to build the company into a full-service electrical contractor through diversification of service offerings and the pursuit of unique, challenging projects. The approach paid off. Walter's philosophy laid the foundation for the company we are today, a corporate culture that fosters innovative thinking and strategic action.

Leadership

O'Connell's pursuit of innovation puts us at the forefront of renewable and alternative energy technologies—nuclear in the '70s, hydro generation plants through the '80s, Landfill Gas to Energy since the mid '90s, and now wind and solar. We are a leading provider of turn-key electrical solutions for wind power generation in the northeast—14 wind farms to our credit, generating up to 1250 MW of power.

Experience

O'Connell's solar technology group has provided hundreds of solar PV solutions for both residential and commercial applications. Our background, working with utilities as well as local and state governments, makes

it easy for us to obtain permits and guarantees that our installations will always be in accordance with applicable codes. Our experience constructing distributed generation facilities, such as wind farms, has O'Connell poised for success in solar's most ambitious applications yet—utility grade power generation.

Diversified

O'Connell's strength as a full-service electrical contractor is rooted in the diversity of our services. A century of electrical construction know-how and expansive resources form the foundation of our solar division—a foundation that ensures our solar electric photovoltaic (PV) solutions are both comprehensive and competitive.

Stability

Our corporate bonding capacity exceeds \$180 million. In the last 40 years, O'Connell has provided more than \$1 billion of electrical services to customers working on projects that range from \$200 to \$40 million. Today we are ranked among the top 50 largest electrical contractors in the nation.

Certifications & Memberships

The extensive training and continuing education our technicians and managers receive sets O'Connell apart from the competition. We hold memberships and certifications with all key solar renewable energy agencies and associations.

NESEA & NYSEIA

O'Connell maintains standing memberships with the Northeast Sustainable Energy Association and New York Solar Energy Industries Association.

Doble Engineering

As a Doble Engineering client, O'Connell's Technical Services group has access to the industry's most sophisticated diagnostic test equipment as well as 25 million test results on over 100,000 types of apparatus—critical for analyzing, testing, and commissioning electrical systems.

TEGG

O'Connell is a member of TEGG, an international network of electrical contractors. This assures that our technicians and management teams are current on the latest preventative maintenance training, certifications, and equipment necessary to maintain the highest level of electrical systems reliability.



NYSERDA

New York State Energy Research and Development Authority facilitates programs that help businesses, institutions, and homeowners reduce their energy costs with energy efficient system solutions aimed at reducing environmental impact. O'Connell's NYSERDA-approved PV installers focus on the latest technologies and industry developments necessary to optimize your project's energy and investment return.

Contact O'Connell Electric

O'Connell is a licensed installer across New York State with offices in Buffalo, Rochester and Syracuse.

Renewable Energy Division—Solar

Joe Clement, Project Coordinator
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Renewable Energy Division

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Why O'Connell?

Capability

At O'Connell, we specialize in providing solutions for complex and challenging electrical power systems. We have the equipment, technical resources, and infrastructure in place to satisfy every objective of your solar project—from residential to commercial to distributed generation utility-grade solar facilities. Our engineering staff, certified technicians, installation and test equipment, management expertise, and financial strength guarantee project success.

Services

O'Connell Electric provides fully integrated solar electric PV power systems. Our solutions incorporate engineering and design, procurement and fabrication, installation and grid connection, testing and start-up, plus maintenance and emergency services. We will develop your project site plans, attain all permits, and manage your state and federal rebates. O'Connell's turnkey solutions for solar mean you deal with one company, start to finish—ours.

Flexibility

Solar's adaptability in construction is one of its advantages. PV panels can be installed on roof tops and the sides of structures, on poles and directly on the ground. You also have the option of stationary panels or those that track the position of the sun for optimal power-generating performance—O'Connell does it all.

Residential Applications

Experience



O'Connell Electric has successfully installed hundreds of residential PV systems across New York. We pride ourselves on the quality and reliability of every home installation and stand behind them as we would any one of our multi-million dollar projects. Our highly skilled technicians, extensive commercial tooling and equipment, and relationships with large supply integrators combine to produce the best residential solar solutions available on the market.

Options



Residential customers have three options when choosing to go solar. The most popular, our on-grid solution, offers property owners the best of both worlds—supplementary solar power while maintaining connection to a local utility. For properties with just the right set of characteristics, our hybrid renewable energy solution might be the answer. Hybrid systems take the on-grid concept a step further by utilizing a second renewable energy source such as wind, hydro, or geothermal. Finally, for properties that just don't have another viable utility option, we offer the off-grid PV solar power solution. These systems are designed to be your property's exclusive power supply plant.



Commercial, Educational & Government Applications

Sustainable Solutions

O'Connell has been helping organizations save money through energy conservation measures for decades—upgrading lights, mechanical systems, and machinery with more energy efficient alternatives. Because of advancements in sustainable, renewable energy technologies, we can offer organizations a viable supplemental alternative to grid-supplied electrical power. Our solar electric PV power solutions are efficient and reliable. Rebates and tax incentives have never been better. Upon assessment, O'Connell will provide your organization with a comprehensive 'return on investment' schedule, enabling you to better understand where you've been regarding power consumption and where you're going.

Solar electric PV power is no longer simply a green choice—it has become a practical one as well.

Let O'Connell power your way.

Experience

Commercial

The HSBC Bank branch in Greece, New York, was one of the first premier LEED Silver Certified buildings in the greater Rochester area. O'Connell installed a 7 KW PV system on the standing seam metal roof of their drive-through portico, making it among the earliest commercial PV systems in the region.

Educational



For Baker Labs on the SUNY Environmental Science and Forestry campus, we installed a 23 KW PV array as part of the architectural design of the building. Mounting the solar panels to engineered steel beams on the building's exterior provided optimal performance of the solar modules and shade for the windows in summer. The building now produces 20% of its power by renewable sources.

O'Connell's had the privilege of bringing solar-for-education to science buildings at private colleges like Syracuse University and Rochester Institute of Technology, as well as to numerous public schools. Recently, we installed a similar system at the Rochester Museum and Science Center as part of a permanent energy exhibit.

Government



As part of a large project for New York State's Department of Transportation, O'Connell installed intelligent solar-powered remote instruments and signage to help the DOT better monitor traffic conditions and issue timely information to motorists along a busy stretch of interstate.

Options

Primary applications of solar in these markets involve supplemental electrical power at facilities or remote monitoring devices in the field. O'Connell's on-grid commercial solutions keep your business connected to a local utility while letting your solar power plant fill in during peak rate hours. Depending on facility locations, a hybrid renewable energy system may be in the



offerings as well. Regardless, our systems design professionals will maximize the potential that your property holds and provide you with options that are right for you.

Solar Power Generation Facilities

Experience

O'Connell stands ready with the experience, technology, and resources to engineer and build utility grade solar power facilities. We have extensive experience with distributed generation projects like wind farms. Our substation, collection, and transmission systems construction services fulfill all the electrical infrastructure requirements of a solar farm. We have worked with major utilities and independent renewable energy developers on numerous large-scale electrical power projects and built strong working relationships with state and local governments which enable us to move effectively through approval processes.

Services

Additionally, O'Connell provides all site development, fabrication, and out-building construction services. We perform systems reliability analysis, acceptance testing, start-up, and commissioning. We will design-build your fiber optic data communications systems and establish the ever-critical utility interconnect. To say that O'Connell is an end-to-end turnkey solutions provider hardly seems adequate.