

Statement of Qualifications: Commercial & Industrial Solar PV



CONTINENTAL
ENERGY SOLUTIONS

A DIVISION OF CONTINENTAL ELECTRICAL CONSTRUCTION COMPANY

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SOLAR IS RISING IN ILLINOIS

Dear Friends of Clean Power,

Thank you for this opportunity to share our solar development and construction experience with you. When we started the Energy Solutions division of Continental in 2009 we were way ahead of the curve. Thanks to the Future Energy Jobs Act we are going to see a 30-fold increase in solar installations in Illinois over the next decade. Continental is well prepared to handle this large demand including rooftop, ground mount and community solar projects.




Continental Electrical Construction Company (CECCo) has been in the electrical business since 1912 when our founder, Harry Witz, established Continental as a premier electrical construction company installing electric lighting. Now under the direction of Harry's great-grandsons, David and Steven Witz, Continental continues to leverage technology for our customers and our great State of Illinois.


As one of the largest employers of Union electricians in Chicagoland, we are able to staff projects large and small ensuring consistent quality and control. **We are also the largest solar contractor in the State of Illinois.** Our team of engineers, project managers, and field supervisors is unmatched in the industry.

This packet includes our qualifications, installation history, and highlights those projects that best illustrate our solar and battery storage experience. We look forward to discussing how Continental can assist you and your customers to go solar!

Sincerely,



Tim Montague
Continental Electrical Construction Company
217.722.0429 m
tmontague@cecco.com



ABOUT CONTINENTAL

Continental is Chicago's #1 electrical contractor. With over 105 years of experience, we use Chicago's skyline as our resume. Under four generations of Witz family stewardship, we've completed projects of all sizes, complexities, and disciplines. Continental's expertise in electrical, energy, and structured cable features solutions in mission critical, commercial, industrial, distributed antenna systems (DAS), hospitality, healthcare, and solar. From new builds to renovations, CECCo is energy personified - powering Chicagoland and the State of Illinois.



~ MISSION ~

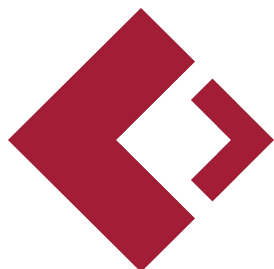
To maximize our customers' investment by providing outstanding quality, unparalleled value, and innovative solutions, while remaining committed to our employees and to a safe working environment.

~ VISION ~

Ensure effective performance through professional integrity, responsible communication, forward planning, and a focus on results.

Anticipate customers' needs and work to exceed expectations by providing value-added services, passion through the construction process, and quality workmanship.

Earn a reasonable and consistent profit, reinvest in our people and our culture, and continue building on our stellar reputation.



CECCo Snapshot

CONTACT PERSON

Tim Montague
Commercial Solar Developer
217.722.0429 m
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HEADQUARTERS

815 Commerce Drive
Suite 100
Oakbrook, IL 60523

AFFILIATIONS

- Illinois Solar Energy Association (ISEA)
- Technology Manufacturing Association (TMA)
- International Brotherhood of Electrical Workers (IBEW)
- National Electrical Contractors Association (NECA)
- Building Owners and Managers Association (BOMA)
- Valley Industrial Association (VIA)
- Women in Manufacturing (WiM)
- Electrical Roundtable
- Oakbrook Chamber of Commerce
- Little Wheels Club of Chicago
- Chief Engineers Association

ENERGY SOLUTIONS

Our Energy Solutions division offers an unbeatable team of engineers, project managers, and field supervisors, including a NABCEP Certified Installation Professional, the gold standard in the solar industry. Together, our team works to provide our customers with clearly outlined costs, energy savings, and overall project ROI. We have built over 50 solar PV projects, many solar plus battery storage solutions, and installed 350 electric vehicle (EV) chargers. Our portfolio includes rooftop and ground mount systems for big box retail, warehouse, and campus solutions. With our experienced team and extensive project portfolio, we can build a solar solution for every customer to meet any challenge.

Capabilities

- Commercial & Industrial Solar PV
- Battery Storage Systems
- Electric Vehicle Chargers
- Small Wind Turbines
- Energy Efficient Lighting
- Design & Build
- Generators / UPS
- On Grid / Off-grid Solutions
- Data Centers & Mission Critical
- Microgrids

Projects

Abt Electronics
Argonne National Labs
Baxter Healthcare
CECCo HQ
Charles Reed School*
Clarke Environmental
Cook County Courthouse, DV
Cooper School*
Craughwell Elementary*
Cronin School*
Evanston Ecology Center
Evanston Levy Sr. Center
Garfield Park Conservatory
Grayslake School District*
Hindsdale Central HS*
Hindsdale South HS*
Hofer School*
I-Go Evanston
I-Go IIT
I-Go Uncommon Ground
IIT Siegel Hall*
IIT Stuart Hall*
IKEA Bolingbrook
IKEA Joliet Distribution Center
IKEA Schaumburg
Illinois Tollway M-7 Bldg
Joliet Junior College*
Kresge Hall, Northwestern Univ.*
Legacy School*
Newberry School*
North Central College*
Orenic Middle School*
Pepsico
Ryan/Walter Center,
Northwestern Univ.*
Schneider Electric
Troy Middle School*
Wassaja Hall, Univ. of Illinois*

*Educational institution

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SOLAR EPC SERVICES

Engineering

We engineer solar arrays and solar plus battery storage systems that are optimized for your facility and budget. Our technical expertise in large industrial and campus solar design and engineering is unparalleled in the Midwest.

Procurement

Our estimating and project management teams work tirelessly to get the best prices and ensure on-budget and on-time delivery of construction projects.

Construction

Our field crews and supervisors are experienced union electricians who take pride in the highest quality work performed with a safety first approach. Our crews are always supervised by a NABCEP Certified electrician.



Legacy Charter School, Chicago

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REFERENCES

IKEA BOLINGBROOK | 1,000 kW SOLAR ARRAY

Rooftop, ballasted
Bo Cabela, Facilities Manager
847.969.0210 ext. 1331
bogdon.cabala@ikea.com

NORTH CENTRAL COLLEGE, NAPERVILLE IL | 538 kW SOLAR ARRAY & 250 kW BATTERY

Rooftop Solar | Battery Storage
Troy Hammond, President
630.637.5100
thammond@noctrl.edu

CLARK ENVIRONMENTAL, ST. CHARLES IL | 119 kW SOLAR ARRAY

Rooftop, Awning, & Carport
Marty Serena, Architect & GC
(m) 847.650.1011 | (o) 312.595.0370
mserena@serenasturm.com

ABT, GLENVIEW IL | 516 kW SOLAR & 500 kW BATTERY STORAGE

Rooftop, ballasted | Tesla PowerPack Battery
Bob Taylor, Director of Operations
847.967.8830
btaylor@abt.com

IKEA Joliet Distribution Center



TEAM MEMBERS

Brian Haug, P.E.

Director - Energy Solutions Division

President - Illinois Solar Energy Association (ISEA)



Brian has been with Continental Electric since 1995. During his time here, he has held several positions, including project manager and professional engineer. Before beginning his current position, he managed a branch office for Continental, which had a staff of 15 office employees and over 100 field electricians. In 2009, when the Energy solutions division formed, Brian united his passion for green technology with his experience in the electrical construction industry. His division's focus is to create a healthier environment by reducing fossil fuel emissions, to lower energy consumption, and to customize green technology solutions for every business.

Mike Hanek, P.E.

Director - Engineering



Michael has over 28 years of experience in the electrical industry and has been the lead engineer for Continental on many design/build projects. He has worked in all areas of design, from hand drafting to 3D-modeling. His expertise is focused on power systems and distribution, particularly short circuit analysis, over-current protection coordination, transient analysis, harmonic analysis, and heat calculations using the Neher-McGrath method. As the Director of Engineering, he is known for his hands-on approach and being involved in all projects in his division.



Brian Swiatek

Director - Field Operations

Brian has been with Continental Electric since 1998. During his tenure, he has held almost every position in field operations before his promotion to Director of Field Operations in 2014. In this role, he supervises field manpower, field supervision, safety, service, and prefabrication. Often, he can be found on job sites, interacting with our field, clients, general contractors, and local unions. Building personal relationships and staying involved in our community is one of Brian's specialties.



Cesar Romo

Project Manager

PV Engineering and Design

7.1 MW of installed solar

NABCEP Certified Solar Installer



Cesar has been with Continental Electric since 1998. As a project manager, his expertise lies in complex jobs with compressed schedules and design assist/build engineering. While he is talented at leading a construction team, Cesar's experience in electrical and control systems set him apart from most project managers. His extensive experience focuses on the design, installation, and project management of solar PV systems.



Tim Montague, M.S.

Commercial Solar Developer

Green Building Expert

Tim joined the Continental team in March 2017 to expand our solar PV sales and business development. He works with industrial and large commercial customers on solar system design and cash flow analysis based on energy profile and current subsidies. He is well versed in all aspects of solar incentives including federal (ITC), state (SRECs) and tax depreciation strategies. In addition to solar PV expertise, Tim is a green building and energy conservation expert.

RELEVANT EXPERIENCE

Continental has assisted the full spectrum of commercial and industrial facilities reduce their energy and carbon footprint. Our solar PV, battery storage, and energy conservation projects have saved our clients hundreds of thousands of dollars. We installed a 55 kW solar array paired with a 100 kW battery storage system at our Oak Brook headquarters so that we could see for ourselves how solar energy plus storage reduces operating expenses. We are committed to helping Illinois achieve the Renewable Portfolio Standard of 25% clean energy by 2025.

Continental Electrical HQ, Oak Brook



SOLAR INSTALLATIONS



- | | | |
|---|----------------------------------|--------------------------------|
| 1. Grayslake North High School | 9. Newberry School | 18. North Central College |
| 2. Grayslake Central High School | 10. Cook County DV Courthouse | 19. Hinsdale South High School |
| 3. Walgreens HQ | 11. Cooper School | |
| 4. ABT Electronics | 12. Legacy Charter School | 20. Argonne National Lab |
| 5. Evanston Ecology Center | 13. Garfield Park Conservatory | 21. IKEA Bolingbrook |
| 6. Kresge Hall, Northwestern University | 14. I-Go Oak Park | 22. Charles Reed School |
| 7. Levy Senior Center | 15. CECCo HQ | 23. Joliet Junior College |
| 8. Clarke Environmental | 16. Hinsdale Central High School | 24. IKEA Distribution Center |
| | 17. Baxter Healthcare | 25. Clarke Gardens |

IKEA - Bolingbrook / Schaumburg

1.99 MW OF ROOFTOP SOLAR

IKEA installed large rooftop solar arrays at their Schaumburg and Bolingbrook retail stores in 2012. This investment reinforces the long-term commitment of IKEA to sustainability and confidence in photovoltaic (PV) technology. IKEA owns and operates each of its solar PV energy systems as opposed to a solar lease or PPA (power purchase agreement). Together, the projects produce about 2,334,081 kWh of clean electricity annually, the equivalent of 1,915 tons of carbon dioxide (CO₂) emissions.

OWNER

IKEA

DESIGN / IMPACT

Bolingbrook:

1,124 kW Rooftop

4,784 Panels

1,300,746 kWh Production

897 Tons of CO₂

176 Cars' emissions taken off the road

112 Homes' powered

Schaumburg:

867 kW Rooftop

3,692 Panels

1,033,335 kWh Production

713 Tons of CO₂

140 Cars' emissions

89 Homes' powered

COMPLETED

May 2012



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Clean Energy Solution

Clarke Environmental

ST. CHARLES, IL | 119 kW

A cleaner healthier environment is integral to the mission of Clarke Environmental in St. Charles. They installed 119 kW of solar PV that generates 20% of their power; the array is distributed among a rooftop array, carport, and a building integrated awning for maximum impact. Clarke is in the process of solarizing multiple facilities in the western suburbs and works with Continental to design and engineer the best solution for each unique facility.

OWNER

Clarke Environmental

DESIGN:

Roof, Carport, Awning

100 kW Rooftop Array

13 kW Carport Array

6 kW Solar Awning

300 W 72-cell Poly Helios Modules

4 Schneider Car Chargers

ANNUAL IMPACT

132,000 kWh Production

19 Cars taken off the road

14 Homes powered for a year

2,404 Trees cleansing the air

COMPLETED

September 2015



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Abt Electronics

GLENVIEW, IL | 516 kW + ESS

Abt Electronics added a 100,000 sq. ft. warehouse in 2015 and seized the opportunity to install a large solar array plus battery storage system (ESS). Solar energy augments their other green initiatives which include LED and natural lighting with skylights. The battery system installed in 2017 will provide a source of revenue via grid services called 'frequency regulation' and provides backup power in the case of grid outage.

OWNER

Abt Family

DESIGN

516 kW Solar Array
1,564 Solarworld 330 W modules
500 kW Tesla PowerPack Battery
1 Acre Rooftop

ANNUAL IMPACT

645,000 kWh Production
167 Tons of waste recycled
103 Cars taken off the road
51 Homes' electricity

COMPLETED

October 2017



Solar + Battery Storage

North Central College

NAPERVILLE, IL | 563 kW

"We already have a portfolio of sustainability projects completed on campus in geothermal, solar thermal and energy-efficient lighting," says North Central College President Troy D. Hammond. "Now we're going to have one of the largest photovoltaic arrays of any small college in the country right here on our campus." The 563 kW solar array provides 22 percent of the electricity for Res/Rec, the largest building on campus. The LEED Silver building houses a 265-bed dormitory wrapped around an indoor running track, multipurpose athletic courts, training room, and fitness center.

The 250 kW battery storage system will provide passive income from grid services and backup power.

OWNER

North Central College

DESIGN

563 kW Rooftop Array

250 kW Battery Storage

1,632 SunEdison 330 W Modules

ANNUAL IMPACT

660,000 kWh Production

98 Cars taken off the road

49 Homes powered for a year

12,021 Trees cleansing the air

COMPLETED

April 2017



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School District Goes Green

Grayslake District 127 High Schools

GRAYSLAKE, IL | 2.76 MW

Grayslake Community High School District installed two rooftop solar PV systems and a ground mount system, totaling 2.76 megawatts and making it one of the first public school districts in the state to adopt solar on a large scale. The declining cost of solar made the project cost effective for the district. The solar arrays will produce a net savings of \$9.8 million over 25 years. Both Grayslake Central HS and Grayslake North HS have roof-mounted solar arrays with an additional ground installation at North HS. The solar PV will offset 32% of utility costs.

The schools also integrated a curriculum developed by the National Energy Education Development (NEED) which includes a web-based energy dashboard for use in the classroom.

DESIGN

1,363 kW of Rooftop
1,400 kW of Ground Mount
8,755 Solar Panels

ANNUAL IMPACT (COMBINED)

1,821,250 kWh Production
3,322,072 Miles driven by car
203 Homes' electricity for a year
32% of Energy demand

COMPLETED

May 2017



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Building Integrated Solar

Oakton Community College

DES PLAINES, IL | 26 kW

Oakton Community College began their renewable energy journey with a 26 kW building integrated solar awning. In 2015 Oakton's President Joianne Smith signed the American Campuses Act on Climate Pledge and the campus joined more than 200 higher education institutions dedicated to climate action.

OWNER

Oakton Community College

DESIGN

26 kW Solar Awning

91 Solarworld 265 W Panels

ANNUAL IMPACT

32,500 kWh Production

2,722 Gallons of gasoline

809 Incandescent lamps switched to LEDs

8.4 Tons of waste recycled

COMPLETED

November 2013



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Fixed Rooftop Solar

University of Illinois Wassaja Hall

CHAMPAIGN-URBANA, IL | 33 kW

In 2008, the University of Illinois at Urbana-Champaign signed the American College & University Presidents' Climate Commitment. This action committed the campus to carbon neutrality by 2050. The Ikenberry Commons (Wassaja Hall) solar array is part of the campus' Illinois Climate Action Plan (iCAP) which lays out a path toward the fulfillment of this commitment. This dormitory was built in 2015 and features a fixed mount design that ensures structural integrity and maximizes energy production with a limited rooftop space.

OWNER

University of Illinois at Urbana-Champaign

DESIGN

33 kW Array
120 Solarworld 275 W Panels
.1 Acres of Rooftop

ANNUAL IMPACT

41,250 kWh Production
75,243 Miles driven in an passenger vehicle
33,587 Pounds of coal burned
4.6 Homes' electricity per year

COMPLETED

November 2015



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LEED with Solar Energy

Northwestern Univ. Kresge Hall

EVANSTON, IL | 81 kW

Thanks to extensive renovations including the addition of an 81 kW solar array, Kresge Hall is the University's first LEED platinum building and the 11th to earn LEED certification between the Evanston and Chicago campuses. Kresge Hall is home to the Weinberg College of Arts and Science's humanities programs at Northwestern, virtually all undergraduates pass through Kresge Hall at some point in their academic careers. The storied building has been transformed from a rite of passage to a modern, comfortable and healthy environment for the campus community.

OWNER

Northwestern University

DESIGN

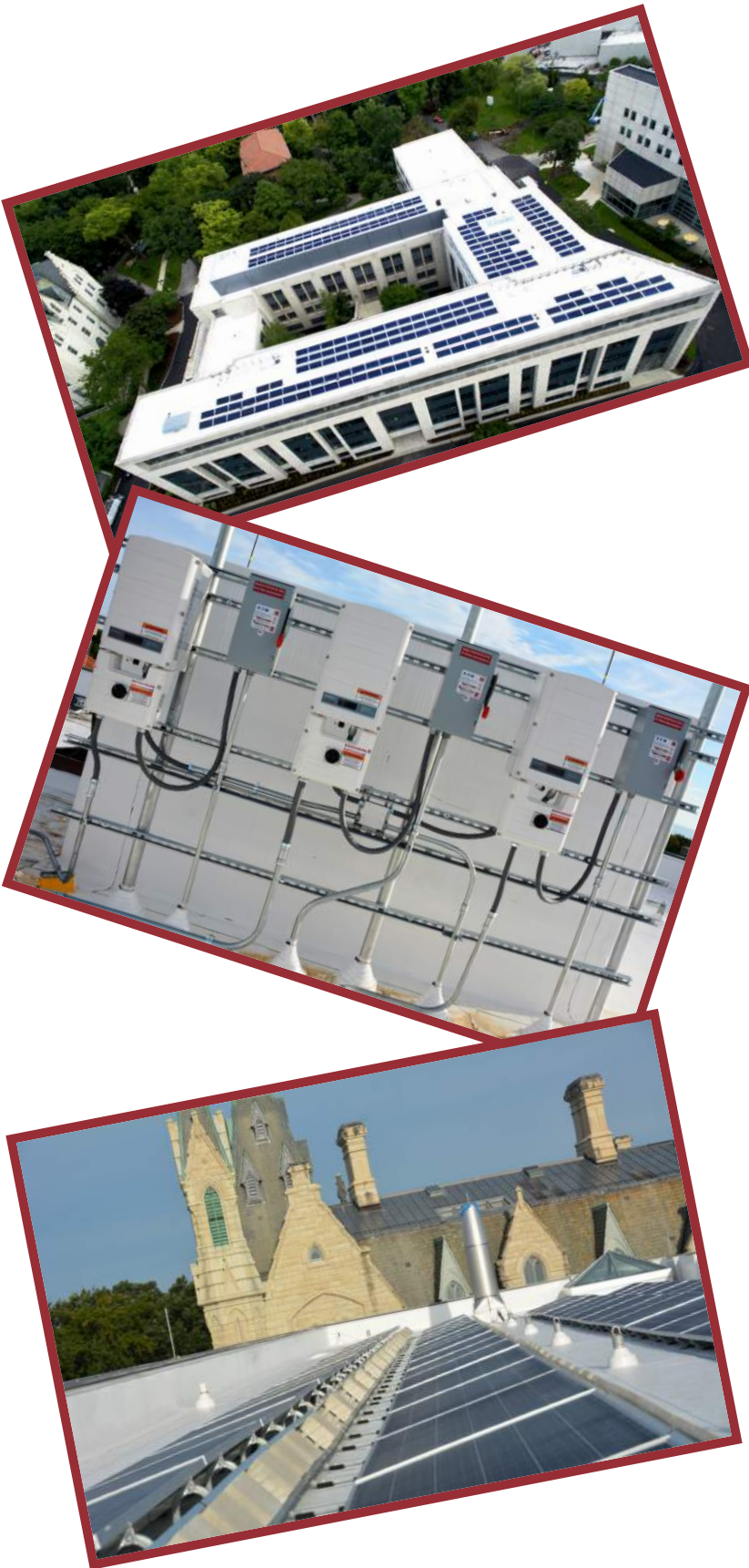
81 kW Rooftop Array
254 Canadian Solar 320 W Panels
.25 acres of Rooftop

ANNUAL IMPACT

101,250 kWh Production
16 Cars taken off the road
2,522 Incandescent lamps switched to LEDs
11.3 Homes' electricity use for one year

COMPLETED

May 2017



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Largest Rooftop Array in IL

IKEA Joliet Distribution Center

JOLIET, IL | 2.9 MW

When the Swedish retailer IKEA announced in 2016 that they would be installing Illinois' largest rooftop solar array in Joliet, it was natural for them to call on SoCore Energy to design and engineer the 10.5 acre project featuring 9,076 solar panels. SoCore in turn, contracted Continental for the installation of the array that was completed in just 6 months.

This project is the 3rd IKEA solar array that Continental has built, and one of dozens where we partner with other solar developers and general contractors because of the complex nature of large commercial, industrial and campus projects. Developers and Contractors know that CECCO gets the job done on time on budget with our workforce of 500 field electricians and seasoned foremen. The IKEA Joliet regional warehouse solar array took 21,000 man hours to complete.

DESIGN

2.9 Megawatt Array
9,063 JA Solar 315 W Panels
10.5 Acres of Rooftop

ANNUAL IMPACT

3,625,000 kWh Production
6,612,222 Miles driven in a passenger vehicle
940 Tons of waste recycled instead of landfilled
404 Homes' electricity for a year

COMPLETED

December 2017



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