# City of Golden Community Solar

Presented by EnergyLink

7/6/2022



# **ENERGYLINK OVERVIEW**

Founded in 2010, EnergyLink LLC started as a residential energy systems and weatherization contractor. Years of expanding both the market segments we service as well as the energy solutions and products we offer has grown us into the organization that we are today: a nationwide renewable energy and energy efficiency developer that offers design-build-finance services to commercial and nonprofit clients across all industries, including engineering & design, financial & economic analysis, and contracting & construction management. We apply these services across a wide variety of product categories including solar energy, building automation, energy storage, CHP systems, HVAC systems, thermal boundaries, LED lighting, and more. We are extensively vertically-integrated and are capable of designing and managing our own projects without subcontracting key operations to third-parties. We self-perform critical aspects of our design and installation processes to keep costs low for our customers.





EnergyLink possesses a National General Contractor A License, and unlike most contractors, we take on the responsibility and risk of our systems' performance through energy savings performance contracts (ESPCs), ensuring our customers receive the full benefits of their projects while minimizing risk. We are committed to performing services that increase the cash flows of our clients, the sustainability of our national ecosystem, and the quality of life of those in the communities we serve. We bring higher value to our clients than traditional contractors by providing alternative funding sources and securing rebate and grant incentives. In addition, our firm prides itself on providing the highest and most sophisticated solutions available to our clients, and we relentlessly search for the cutting edge in energy technology to that end.

# Solar Rendering - 20900 W 56<sup>th</sup> Ave

**Phase 1:** 2,813.8 kW 5,068,905 kWh (including bi-facial production)



**Phase 2:** 5,726.6 kW 9,378,323 kWh (including bi-facial production)



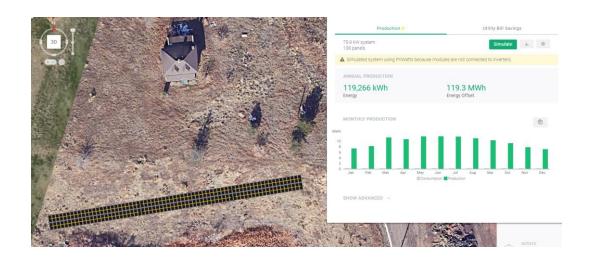


**Phase 3:** 11,609.4 kW 19,012,452 kWh (including bi-facial production)



# Solar Rendering - 1151 Catamount Drive & 151 Rooney Road

**1151 Catamount Drive:** 75.89 kW 119,266 kWh (includes bi-facial production)





**151 Rooney Road:** 5,292.1 kW 8,544,642 kWh (includes bi-facial production)

# **Detail Specifications and Things to Consider**

## **Detailed Technical Specifications**

Array Orientation: 180 Degrees South, 10 Degree Tilt (Rooftop),

Mounting Type: Ballasted (Rooftop)
Panel Type: Trina 500W Bi-facial

Inverter Type: Chint Power Systems (CPS) 100/125 kW 480 - 600V

Racking Type: APA Pile Driven (Rooftop)

System Production: kWh

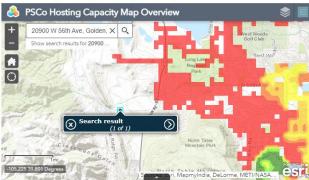
## Things to Consider:

## Utility Interconnection Study and Primary Utility Upgrades

Given the amount of solar within this campus, EnergyLink believes these will require an interconnection study that will be generated by your utility provider and a third party engineer. This study will analyze their transmission and substation equipment to determine if there are any upgrades, reclosers, or other primary side additions needed to protect their equipment. Typically these studies cost \$10,000 - \$15,000, and we have included this into our budgeted

costs.

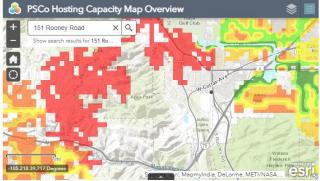
## Hosting Capacity Map



Hosting Capacity Map

Hosting Capacity Map

PSCo Hosting Capacity Map Overview







# Firm History

#### Offices:

Home Office, Denver CO

- 387, Corona St #633, Denver, CO 80218
- 720.597.3861

#### Branch Office, Columbia, MO:

- 200 E Southampton Dr #102, Columbia, MO 65203
- 573.777.481

#### Branch Office, Austin, TX

- 11614 Bee Cave Parkway suite 240
- 512.772.1538

#### Branch Office, Asheville, NC:

- 60 N Market St Suite C200, Asheville, NC 28801
- 828.368.4707

#### Contact Person and Contract Signee: Jake Robins

- Project Executive
- jrobins@goenergylink.com
- 801.458.5145

#### EnergyLink Experience:

Founded - May 2010

Company Structure - Private (LLC)

Number of Employees – 40

States - Colorado, Missouri, Kansas, Texas, North Carolina, Florida, Arkansas, California, Ohio

Target Customer - Commercial & Industrial (C&I) and/or small utility scale

Bonding Capacity -\$5,000,000

Our team has designed/funded/installed 100+ projects for end-user microgrid systems. We have experts to assist along the way with the following specialties system designs, financial modeling/capital structures, project management, construction management, system installation, safety, and Measuring and Verification (M&V). We will lead the project through each step to ensure proper measures are taken for each portion of work. We have a diverse background working with Investor-Owned Utilities, municipalities, and rural co-ops to handle the tough negotiations with the utility.

EnergyLink holds a national accreditation as an Energy Efficient Contractor for National Energy Service Companies (NAESCO), which holds EnergyLink fiduciary responsibility for the economic performance of the project.

Our team carries the knowledge and expertise to streamline these challenging projects and make this lasting investment fruitful for the State Of Colorado.



## **Key Team Members for Executive Team**

#### **Executive Team:**

- Chris Ihler, President/CEO
  - 1. 20+ years in real estate and renewable energy development
  - 2. Executes EnergyLink's mission of adding value to the "Triple Bottom Line" of each client by providing leadership and knowledge that benefit clients' profitability, their communities, and the environment
  - 3. National General Building Contractor A (F11) License
  - 4. Previous to EnergyLink, founded Gateway
  - 5. BS BA in Finance and Real Estate from the University of Missouri
- 2. Craig Stitcher, Chief Strategy Office
  - Leads business to develop partnerships with vendors, subcontractors and customers
  - Joined EnergyLink from BurOak Brewing, a microbrewery in Columbia, MO, where
    he was the creative force behind the start-up operations, defined a brand identity
    for culture and marketing, and was responsible for the growth of sales and
    distribution
  - 3. BS Mechanical Engineering from Central Michigan University
- 3. Jeremy Nolen, MBA, Project Executive
  - 1. 7 + years experience in budgeting and procurement in C&I solar industry.
  - 2. Completed procurement and planning on over 100 C&I solar PV projects behind the meter
  - 3. Responsible for business and partnership development throughout the project lifecycle ensuring longevity and quality services and installation
  - 4. Project Experience Examples: Oxford Vista, Colorado State University (80 kW), ULC Americorps (440 kW), Buncombe County NC (6.8 MW)
  - 5. BS in Finance from Columbia College
  - 6. MBA from University of Missouri Kansas City



## **Key Team Members for Engineering/Design**

#### **Engineering/Design Team:**

- 1. Colin McCarthy, Project Engineer
  - 1. AEE Certified Energy Manager
  - 2. Designed and Modeled over 5MW of PV solar installation coupled with building automation controls
  - Sample projects worked on: ULC Americorps (440kW), Buncombe County (6.8mW), Boulder Fire District (19 kW), Robertsdale Tank and Pump Station (750.4 kW), City of Paragould (1.92 MW)
  - 4. 7 years experience in the renewable energy industry
  - 5. Bachelors in Industrial Engineering from the University of Missouri
- 2. Victoria La Rose, Metering and Verification Manager
  - 1. Provides monthly monitoring to the 250+ project sites
  - 2. Certified by AEE as Measurement and Verification Specialist
  - 3. Bachelors in Industrial Engineering from the University of Missouri
  - 4. Participated in the Department of Energy Industrial Assessment Program, which offers local businesses energy audits to reduce utility costs
- 3. Cully Meier, Systems Engineer
  - NABCEP Certified Energy Practitioner
  - 2. OSHA 10 Certified
  - 3. Worked on over 50MW of PV solar installation in 9 jurisdictions
  - 4. Sample projects: Buncombe County (6.8 MW), Midway USA (440 kW), Camp Crowder National Guard (332 kW),
  - 5. 8 years experience in the renewable energy industry

#### Financial Analysis Team

- 1. Christian Gander, MBA, Lead Analyst
  - 1. Completed financial analysis on over 100MW of potential solar PV projects, and on over 15MW of contracted and installed solar PV projects.
  - 2. Extensive experience in financial analysis of solar plus building automation projects
  - 3. Extensive experience securing project funding including debt financing, PACE financing, power purchase agreements, managed energy service agreements, tax credits, tax equity investments, grants, and rebates.
  - 4. Project Experience Examples: ULC Americorps (440 kW), Paul Stefan Farms (150 kW), Robertsdale pump Station (750.4 kW)
  - 5. 6 years experience in the renewable energy industry



## **Key Team Members For Construction**

#### Procurement and Construction Team

- 1. Luke Dangelser, Construction Coordinator
  - 1. 18 years of experience and has overseen over 10MW of solar PV installation
  - 2. OSHA 30 Certified
  - 3. Oversees national project management and manages regional construction teams across the US
  - 4. Project Experience Examples: Shikles Center (79kW), PLWC Solar Farm (150kW), Midway USA (1.6 MW)
- 2. Sean Meier, Project Manager
  - OSHA 10 Certified
  - 2. Project engineer for 5+MW of solar PV installation
  - 3. Handles engineering, procurement, construction and post-construction projects
  - 4. Project Experience Examples: Robertsdale Pump Station (750.4 kW), ULC Americorps (440kW), Midway USA (1.6 MW)
- 3. Peter Ginsberg, Project Engineer
  - OSHA 10 Certified
  - 2. Project engineer for 6+MW of solar PV installation
  - 3. Ensures shipments of materials to jobsite, coordinates communication with client
  - 4. Project Experience Examples: Robertsdale Pump Station (750.4 kW), ULC Americorps (440kW), Midway USA (1.6 MW)
- 4. Ivan Yantis, Regional Superintendent
  - 1. Certified in Electrical Technology
  - 2. 8 years of construction experience (Installed 7+ MW of commercial solar)
  - 3. Project Experience Examples: Missouri National Guard (Camp Crowder 19 arrays between 6 and 45kW), Midway USA (1.6 MW)
- 5. Jake Littrell, Safety Manager/Superintendent
  - 15 years commercial construction experience (Installed 10+ MW of commercial solar)
  - 2. OSHA 10 and OSHA 30 certified
  - 3. Project Experience Examples: Midway USA (1.6 MW), Faircom (130kW), Buncombe County (6.8 MW)



# **EnergyLink Certifications**

## **Certifications**

#### **Engineering/Design**

- Certified Energy Manager (CEM)
- Measurement and Verification (M&V) Specialist
- Professional Engineer (electrical, structural, civil, mechanical)
- Certified Financial Analyst (CFA) Level 1

#### Construction Team:

- National Association of Energy Service Companies (NAESCO) Energy Efficiency Contractor
- National General Contractors License F11
- Designed and installed projects in MO, AR, CO, KS, NC, TX, CA, NY
- OSHA 10
- OSHA 30
- CPR certified
- Telehandler Certification
- Vetted by multiple state jobs
- NABCEP certified PV installer
- Renovator Initial
- Master Electrician
- Experience building 20+ MW of commercial and industrial solar projects across 100+ sites

### HELPING NATIONWIDE ORGANIZATIONS BECOME MORE SUSTAINABLE

EnergyLink has become the trusted Energy Service Company to oversee projects for large commercial and industrial clients, as well as nonprofits, cities, and municipalities in locations across the United States.



#### MIDWAY USA HEADQUARTERS - COLUMBIA, MISSOURI

- 1.62 MW utility scale rooftop solar array
- 4,243,898 pounds of CO2 offset from operations annually
- One of the largest commercial installs in Missouri
- \$157,327 projected annual energy savings

Reference: Jason Kemna – Project Manager Manager – (720) 301-3176



#### BUNCOMBE COUNTY - ASHEVILLE < NORTH CAROLINA

- 6.8 MW worth of solar installed across 46 county locations
- 10,000, pounds of CO2 annual offset from operations
- Large sustainable impact to Buncombe County residents
- Two-year project expected to grow jobs in the area

Reference: Russ Blevins – MB Havnes – (828) 768-1116



## OXFORD VISTA, AMERICORPS - AURORA, COLORADO

- Owned by nonprofit, Urban Land Conservancy
- 441 kW ground mount solar + solar carport combo, geoloop VRV system, HVAC units, high efficiency boilers, ERV system, LED lights, roof and window replacements, and building automation controls
- 1,214,747 pounds of CO2 offset + \$89,805 annual savings

Reference: Eric Parker – Sustainability & Facilities Manager – (720) 301-3176.



# **EDUCATION PROJECT REFERENCES**



#### SPRING HILL HIGH SCHOOL - SPRING HILL, KANSAS

- 750.4 kW ground mount solar array installed
- Demand management controls were also integrated to lower electric demand costs + intelligently use solar power
- 1,306,022 annual kW offset and \$3,286,713 20-year savings

Reference: Kyley Delphia – Director of Facilities – 913.592.7430



### COLORADO STATE UNIVERSITY - FORT COLLINS, COLORADO

- 80 kW rooftop ballast solar array installed
- Project fully supported and funded by students
- Financial & sustainability benefits: 110,500 annual kWh offset & \$89.869 energy savings over 20 years

Reference: Drew Douglas - Project Manager - (970) 567-1262



#### COLUMBIA INDEPENDENT SCHOOLS - COLUMBIA, MISSOURI

- 99 kW rooftop solar array installed along with building automation controls, new HVAC units and HVAC controls, LED lights, and destratification fans
- Financial & sustainability benefits: 180,000 annual kWh offset & \$847,957 energy savings over 20 years

Reference: Bridgid Kinney - Head of School - (573) 777-9250



# **COMMERCIAL PROJECT REFERENCES**



#### MIDWAY USA HEADQUARTERS - COLUMBIA, MISSOURI

- 1.62 MW utility scale rooftop solar array
- 4,243,898 pounds of CO2 offset from operations annually
- One of the largest commercial installs in Missouri
- \$157,327 projected annual energy savings

Reference: Jason Kemna – Project Manager – (720) 301-3176.



#### SHELTER INSURANCE HEADQUARTERS - COLUMBIA, MO

- 300 kW rooftop solar array installed
- Backed by Energy Service Performance Contract guarantee to ensure strong system production over time
- 412,007 annual kWh offset with \$530,000 20-year savings

Reference: Brian Fick - Manager of Business Operations - (573) 214-6588



#### FAIRCOM CORPORATION - COLUMBIA, MISSOURI

- 134.6 kW rooftop solar array installed along with LED lights and HVAC controls to improve energy use holistically
- Reliable on-site power for FairCom's data center
- 230,000 annual kWh offset with \$392,335 20-year savings

Reference: Ross Griffin - Building and Ground Manager -



#### EDC BUSINESS & COMMUNITY PARTNERS - ST. CHARLES, MO

- 140 kW rooftop solar array installed along with building automation controls, HVAC controls, and LED lights to specifically target and reduce peak demand charges
- 216,103 annual kWh offset and \$25,435 annual savings

Reference: Craig Frahm - President - (636) 229-5285



# **MUNICIPAL PROJECT REFERENCES**



#### CITY OF PARAGOULD, ARKANSAS

- 1.92 MW utility scale ground mount solar array
- Bifacial solar panel technology and single axis trackers utilized for added solar production
- 3,300,000 annual kWh offset allowing Paragould to attract more sustainably minded businesses to their city

Reference: David Moss - Paragould Water & Light - dmoss@paragould.com



#### **BUNCOMBE COUNTY - ASHEVILLE, NORTH CAROLINA**

- 6.8 MW worth of solar installed across 46 county locations
- 10,000,000 pounds of CO2 annual offset from operations
- Large sustainable impact to Buncombe County residents
  - Two-year project expected to grow jobs in the area

Reference: MB Haynes - Russ Blevins - Project Executive - (828) 254-6141



#### ROBERTSDALE TANK & PUMP STATION - AURORA, CO

- 469 kW solar array installed, mounted on city water tank
- Aided Aurora in reducing utility costs on Robertsdale street
- Made better use of the city's water tank pad
- 611,539 kW annual kWh offset made city more sustainable

Reference: Shiva Sapkota – Engineer– (303) 588-5923



#### WASTEWATER TREATMENT PLANT – LINCOLN, MISSOURI

- 29.25 kW ground mount solar array installed
- Brings on-site power generation for the city plant
- Financial & sustainability benefits: 41,510 annual kWh offset & \$66,416 energy savings over 20 years

Reference: Paul Jeffries - Project Manager - (573) 680-1571



# ENERGYLINK ALCAPABILITIES STATEMENT

OUR MISSION: Provide commercial, industrial, nonprofit, and government organizations with efficient and economically beneficial renewable energy solutions.

# **CORE COMPETENCIES**



**ECONOMICS & FUNDING PROCUREMENT** 



PROCUREMENT & CONSTRUCTION



ENGINEERING & PRE-CONSTRUCTION



POST CONSTRUCTION

### DIFFERENTIATORS

- Energy as a Service (EaaS) Contracts
- Energy Service Performance (ESPC) Contracts
- Bespoke Financial Modeling
- Tax Equity Syndication
- Investment Banking Placement of Funds
- TPO Contract Structuring
- TPO (Third Party Owned) Energy & Efficiency Systems.

## SELF-PERFORMED WORK

- CHP Installation
- LED Swap Duts
- ✓ BTM Utility Scale C&I Solar
- Ice Energy Storage
- DC and Lew Voltage
- AC Electrical and High Voltage
- Lithium Iron and Flow Battery Integration.
- Utility Sided/Utility Scale Ground Mount (inc. SAT)

## **CORPORATE INFO**

Website: www.GoEnergyLink.com Email: cihler@goenergylink.com

Phone: 866 210 0380

Corporate Office: 200 E Southampton Dr. Suite 102, Columbia, MO 65203 DUNS#: 015307277 CAGE Code: 8VH22

SIC: 17110403

**NAICS CODES** 

221114 - Solar Electric Power Generation 236220 - Commercial and Institutional Buili

236220 - Commercial and Institutional Building Construction 237130 - Alternative Energy Structure Construction

238210 - Solar Panel Installation

238220 - Plumbing, Heating, and Air-Conditioning 541350 - Energy Efficiency Inspection Services















# **MORE THAN SOLAR**



## PAST PERFORMANCE

Shelter Insurance, Columbia, MO
Colorado State University, Lory Student Center, CO
Urban Land Conservancy, Oxford Vista Campus, CO
MO National Guard Camp Crowder Training Center, Neosho, MO

## S ECONOMICS & FUNDING PROCUREMENT

Grant, Incentive, Funding Applications & Underwriting

CPACE Contractor and/or Developer

Tax Equity Syndication

Debt or Bond Procurement

Financial & Economic Modeling

Financial Analysis, and Recommendations

IB Placement of Funds for project/structured financing

Energy Investment and Option Analysis

QAC Financial Advisory with Proforma Modeling

TPD" contract structuring

Energy Service Performance Contracts (ESPC)

### ENGINEERING & PRE-CONSTRUCTION

SD Analysis, Drawings, & Documents (non-stamped)

DC SLD's (NABCEP)

BAS\* Protocol & op's Development

Solar Load Shifting

Energy Baseline Modeling (CEM\*)

Energy Consumption Modeling (year construction / renounter)

Net-Zero Modeling

Off-Grid / Self-Sustained Systems Design

BTM Co-Generation & Renewable Design

Utility Sided Site Planning & ISO Queue Applications

EPC\* planning for Division of scope

System commissioning and integration planning

#### PROCUREMENT & CONSTRUCTION

Procurement of Equipment

Insurance & Risk Management

Budget & Cost Analysis

Supply Chain Logistics

Project Management

Construction Management

Site Control and Management

Technical and Safety Training

Construction Timeline Planning

CM planning

Quality Control

VRV/ VRF Integrations

Geothermal Applications

Interconnection & PTO Fulfillment

Central Plant/HVAC/DOAS Renovations

Holistic Building Integration of Systems

## POST CONSTRUCTION

Systems Commissioning (Certified Installers)

Operations & Maintenance

Monitoring & Verification (CMVP)

Reporting and CEM\* management

BAS\* management

Energy Benchmarking

BAS - Building Automotion System BTM - Behald the Marter CEM - Contradized Energy Management System EPC - Engineering Procurement and Constructs TFO Third Parts Osmerani





OBJECTIVES THIS PROJECT WILL ACCOMPLISH		
1	Decrease energy costs	
2	Improve corporate sustainability efforts	
3	Improve cash-flow position (in the short and long-term)	

#### WHY ENERGYLINK IS THE RIGHT PARTNER TO ACCOMPLISH THESE GOALS

EnergyLink has become the trusted Energy Service Company to oversee projects for large commercial and industrial clients, as well as nonprofits, cities, and municipalities in locations across the United States. Learn about our NAESCO Accreditation >

EnergyLink's capabilities extend beyond a traditional EPC, and as a design-build-fund firm, the company excels at financial modeling, creating project funding opportunities, and managing complex & integrated project installations.



#### DESIGN-BUILD-FUND

Experienced engineering, procurement and internal construction teams



#### **ENERGY AS A SERVICE**

No upfront project costs, Performance-based contracting and monetary guarantees



## TURN-KEY FINANCIAL MODELING SERVICES

Identify and provide alternative funding structures & opportunities



#### SCOPE 2 EMISSIONS REDUCTIONS

Simplify carbon offset by leveraging available renewable energy credits



#### MORE THAN SOLAR

Offer a full suite of energy efficiency and energy storage services



## POST-CONSTRUCTION SERVICES

M&V and long-term Operation & Maintenance



#### NATIONALLY ACCREDITED ESCO

Energy driven by an economics first approach



## DEPLOYABLE CAPITAL FOR PROJECT FUNDING

Through a strategic partnership with New American Energy.

# **WARRANTY & MAINTENANCE**

#### POST-INSTALLATION SERVICE WARRANTY

#### On all projects, EnergyLink offers:

- 1-year labor warranty covering workmanship
- 1-year labor warranty covering replacement of manufacturer-warrantied parts
- Remote monitoring and verification of system performance to ensure that any possible problems or defects are detected early

## OPTIONAL POST-INSTALLATION METERING & VERIFICATION SERVICES

EnergyLink offers an optional metering and verification service plan that includes data logging, pro forma utilities analysis, financial analysis, controls reconfiguration and optimization, and more.

Pricing varies based on services and terms selected per project.

## OPTIONAL ENERGY SERVICE PERFORMANCE CONTRACT (ESPC)

EnergyLink offers an optional ESPC that transfers the risk of nonperformance of the renewable asset to us as the contractor in exchange for a yearly premium payment from the customer. EnergyLink offers an 85% performance guarantee on the system output.



# **EDP Renewables - Overview**

# edp renewables

#### **About EDPR NA Distributed Generation**

Full legal name and address: EDPR NA Distributed Generation LLC 100 Park Ave, 24th Floor, New York, NY 10017 Tax ID: 81-3493294 D&B number: 080823415

#### **Company Background**

EDPR NA Distributed Generation ("EDPR NA DG," <a href="www.edprnadg.com">www.edprnadg.com</a>) is a Houston and New York City based subsidiary of EDP Renewables North America LLC ("EDPR NA," <a href="www.edprnorthamerica.com">www.edprnorthamerica.com</a>), which develops, constructs, owns, and operates wind farms and solar parks throughout North America. EDPR NA has approximately 800 employees and regional offices in Toronto, Mexico City, Kansas, New York, Oregon, Illinois, and Indiana. EDPR NA's rigorous approach has led to the successful development of more than 7,500 MW of renewable energy facilities, and the company has demonstrated a proven ability to successfully navigate complicated land, interconnection and permitting environments to achieve commercial operations for its projects.

Since 2016, EDPR NA has helped a dozen commercial and industrial customers achieve their financial and sustainability goals through nearly 980 MW of new renewable energy procurement. EDPR NA has worked with a variety of corporate customers on alternative contract structures and as such, we are happy to work on alternative structures to address any risks most salient to your management. EDPR NA's operational assets are spread across 17 U.S. states, one Mexican state and one Canadian province at 53 wind farms and 8 solar parks, making EDPR NA the 4th largest operator of wind energy in the United States.

EDPR NA has a track record of successfully developing projects in the United States for over two decades. EDPR NA's community-focused approach to developing renewable energy projects has led to the successful development of more than 7,500 MW across North America. In addition to its proven ability to successfully navigate complicated land, interconnection and permitting environments, EDPR NA has demonstrated expertise in capturing and monetizing the full amount of tax credits available. EDPR NA is a wholly owned subsidiary of EDP Renováveis ("EDP Renewables" or "EDPR," <a href="www.edpr.com">www.edpr.com</a>), whose majority owner, Energias de Portugal ("EDP," <a href="www.edp.com">www.edp.com</a>), is a vertically-integrated utility company with a firmly established position in the energy market. Headquartered in Lisbon, Portugal, it is the largest generator, distributor and supplier of electricity in Portugal, the third largest energy company in the Iberian Peninsula, and the largest Portuguese group by market capitalization (over \$11 billion). EDP holds, through its various constituent businesses, significant electricity and gas operations in Europe, Brazil and the United States. Worldwide, EDP has approximately 27 GW of installed electricity generation capacity in Portugal, Spain, France, Belgium, Brazil and the U.S., and 12 million electricity and gas clients. EDP is present in the renewable energy generation business in Europe, the United States and Brazil, and is currently the fourth largest wind power operator worldwide through its 77.5% stake in EDP Renováveis, which has been listed on the NYSE Euronext Lisbon stock market since its initial public offering on June 4, 2008.

EDP Renováveis is a leading global renewable energy company that develops, builds, owns and operates power plants that generate electricity using renewable energy sources. EDPR NA operates in three broad geographic areas: Europe, North America and South America. Specifically, it currently owns and operates wind farms in 14 countries: Belgium, Brazil, Canada, Colombia, France, Greece, Italy, Mexico, Poland, Portugal, Romania, Spain, the United Kingdom, and the United States of America; it has various onshore wind, offshore wind, solar and energy storage projects in varied stages of development and construction in numerous markets, and it is actively engaged in expanding its activities into other countries and technologies.

With more than 11.5 GW of net renewable capacity as of Q3 2020, EDPR is ranked fourth in the world in wind energy based on gross installed capacity and is consistently ranked in the top three in terms of sectorial growth.



# edp renewables

EDP - Energias de Portugal, S.A. (Portuguese Company) 100% EDP - Energias de Portugal, Sociedade Anonima, Sucursal en España **Shares Traded** (Spanish Company and Branch on Euronext Exchange of EDP - Energias de - Lisbon, Portugal Portugal, S.A.) 17.4% 82.6% EDP Renováveis, S.A. (incorporated in Spain) 100% **EDP Renewables North America LLC** (a Delaware LLC) 100% **EDPR NA DG Holding LLC** (a Delaware LLC) 84% **EDPR NA Distributed Generation LLC** (formerly C2 Omega LLC) (a Delaware LLC)



# edp renewables

EDPR NA DG has a combined team experience of more than 100 years in distributed energy, finance, and engineering. EDPR NA DG's management is one of the most experienced in distributed energy operations and leads its employees and subcontractors with a hands-on approach based on integrity, safety, quality, and velocity. Brief background on EDPR NA DG management and key personnel for this project are below.





Chris Rittenhouse
Senior Manager, Head of M&A



**David Wolfert**Senior Engineering and Safety
Manager



Louis Langlois
Associate Director,
Investment



Michael Howell
Associate Director,
Asset Management



Richard Dovere Chief Investment Officer

Mr. Dovere serves as Chief Investment Officer of EDPR NA Distributed Generation ("EDPR NA DG"), where he leads capital investment and overall market strategy for the platform's \$500,000,000+ portfolio of operating and development assets. He has more than a decade of experience developing, structuring and financing award-winning renewable power generation projects in the United States and Europe. Prior to EDPR NA DG, Mr. Dovere co-founded and coled C2 Energy Capital ("C2"), which operated more than \$300 MM of power generation facilities throughout the United States, serving a diverse set of clients including national retailers, utilities, school districts, governmental authorities, colleges and hospitals. He co-led C2's solar and energy storage platform from dining room table to start-up to its successful sale to EDP Renewables North America.

At EDPR NA DG, Mr. Dovere collaborates with numerous industry stakeholders on developing coordinated and innovative solutions for modern electric grid challenges using distributed energy resources. He holds a BA from the University of Wisconsin at Madison.



Candice Michalowicz Chief Operating Officer

Ms. Michalowicz leads EDPR NA Distributed Generation ("EDPR NA DG")'s project development and operations, in addition to engaging key business partners in North America. Prior to EDPR NA DG, she co-founded and co-lead EDPR NA DG Capital ("C2"), building an award-winning solar portfolio of over 300 MW spanning eighteen states. Ms. Michalowicz led efforts that resulted in diversifying C2's customer base to include businesses, municipalities, healthcare and educational institutions as well as capture a growing number of corporate and retail market entries. At EDPR NA DG, she continues to focus on providing a stronger customer-centric approach to the development, construction, and operation of safe and clean distributed generation.

Ms. Michalowicz previously served as Vice President of Development at Healthy Planet Partners where she oversaw the development of the firm's solar photovoltaic projects. She also served as Vice President of Development at Adamas Energy Investments where she led due diligence on over 1 GW of power generation opportunities. She holds a BA Summa Cum Laude from George Washington University.



# **EDP Renewables - Team Members**



Chris Rittenhouse Senior Manager, Head of M&A



David W. Wolfert Jr. Senior Engineering and Safety Manager



Louis Langlois Associate Director, Investment



Michael Howell Associate Director, Asset Management

At EDPR NA DG, Mr. Rittenhouse leads the team's acquisition efforts overseeing successful transactions, a rigorous diligence process, and ensuring sustainable returns for the firm. He has spent seven years in the energy and finance industries, drawing from experiences with oil, natural gas, and both traditional and renewable power generation. Over his career, Chris has managed the electricity and natural gas portfolios of Fortune 500 commercial and industrials, advanced EU market development and growth for Tradition Energy, built proprietary wholesale power and natural gas price analytics, and developed or acquired over \$350 MM of renewable energy assets.

He holds a BSBA concentrating in Finance and Sustainable Economics from Fordham University's Gabelli School of Business.

Mr. Wolfert leads the EDPR NA DG Engineering and Safety team to oversee effective design, engineering, and installation practices contributing to the reliable safety and long-term operation of their DG assets. He has led engineering and construction of 75% of the projects at C2 Energy Capital including the entire Walmart portfolio and was responsible for design and commissioning standards across all assets. Mr. Wolfert's solar career started at Kyocera Solar where he designed and commissioned both off grid and grid tied solar systems including 1kW custom hybrid solar/wind systems, a 60kW solar/wind hybrid off grid system at Fort Bliss for the US Army, and the re-design and commissioning of five critical telecom sites for the United Arab Emirates Army outside of Abu Dhabi. After working at Kyocera Solar, Mr. Wolfert worked at NRG Renew where his highlights included project engineering/construction of the Whole Foods portfolio as well as the Waukegan Schools portfolio in Illinois.

He holds a Master of Science (MS) in electrical engineering from Arizona State University and is NABCEP certified. He also has been awarded numerous patents both pending and issued in the area of semiconductor fabrication techniques and circuit design.

At EDPR NA Distributed Generation "EDPR NA DG", Mr. Langlois serves as an Associate Director of Investments, where he leads business development, capital investment, and strategic initiatives to serve the division's growing pipeline of development and operational assets. He has spent over thirteen years in the energy, real estate, and product development sectors. Over his career, Mr. Langlois has held technical and business leadership positions serving numerous client segments to identify product & market fit and deliver profitable solutions to reduce carbon emissions in the built environment.

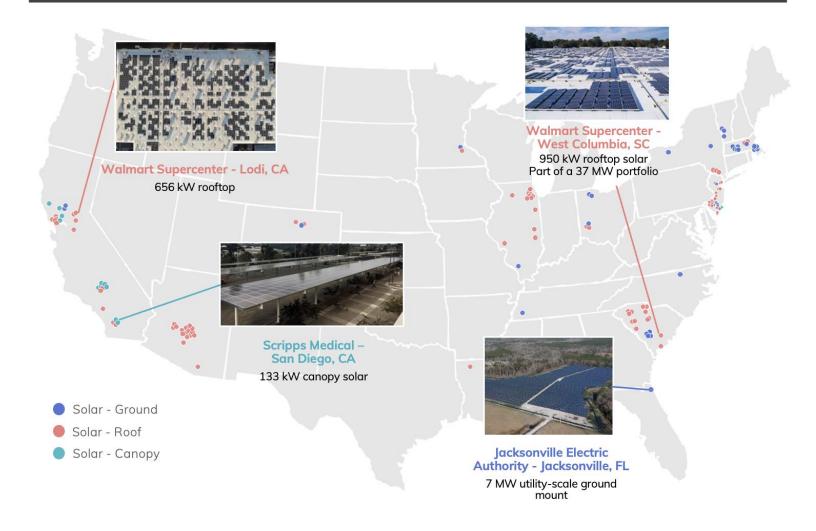
He is a systems thinker and an experienced troubleshooter both in the field and in the board room. Prior to joining EDPR NA DG, Mr. Langlois served as the Vice President of Energy Solutions at Carbon Lighthouse, a national energy services company serving real estate investors. During his eight-year tenure, he held management positions leading the deployment of professional services, SaaS, and capital upgrades serving a \$3B+ real estate portfolio of mixed-use facilities. Additionally, Mr. Langlois earned a patent related to intelligent energy monitoring and developed a new product line that increased revenue by 30% for three consecutive years.

He holds a BA in Physics from Wesleyan University.

Mr. Howell leads EDPR NA Distributed Generation ("EDPR NA DG")'s Asset Management team overseeing the successful operations of their DG assets. Prior to EDPR NA DG, he led the asset management team for C2 Energy Capital and operated over \$300MM of power generation facilities throughout the United States that comprised of 177MW at 157 plants across 18 states. Over his photovoltaic career that started 32 years ago, Mr. Howell installed systems for 14 years, has trained hundreds of installers, lead the Field operations & Application Engineering teams at GE Energy Solar's division, and developed a solar distribution product division for an electrical distributor.

He holds a BS from the Robert G. Merrick School of Business at the University of Baltimore and has countless hours of photovoltaic industry training.

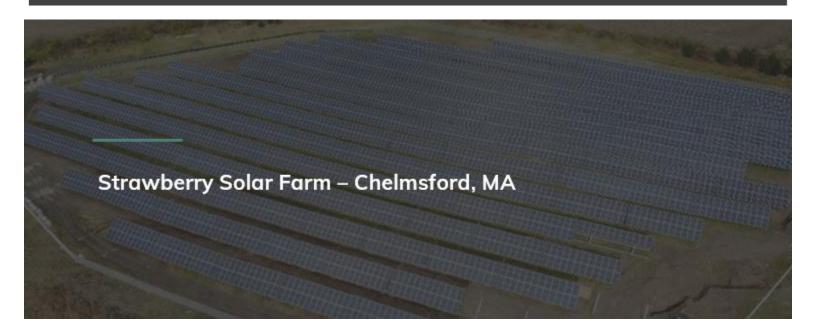
# EDP Renewables - Development Experience



## **Project Highlights**

EDPR NA DG has built a portfolio of 88 MW of distributed energy projects across 20 states. Our framework for success centers around customer alignment, integrity, safety, quality, and velocity and has helped us acquire clients such as Walmart and Scripps Medical. Additionally, we have selected a handful of PV projects that demonstrate EDPR NA DG's ability to successfully install and operate a distributed energy systems throughout the country

# **EDP Renewables - Project References**



## Strawberry Solar Farm - Chelmsford, MA

#### **1 MW**

Strawberry Solar Farm is a 1 MW-ac solar project in Chelmsford, MA that consists of solar and onsite storage. The BESS used has an energy storage capacity rating of 1134 kWh and includes site controls, remote monitoring access and a well water injection system for the purposes of mitigating against battery thermal runaway conditions. The BESS is inspected and certified according to UL 9540, the Standard for Energy Storage Systems and Equipment. The site controller system, based upon a PLC platform, provides centralized control of the BESS between the application control requirements and all other equipment. This project is under development and is set to be commercially operational by June 2021.

Client Contact: Available upon request



Expected to produce

**1.33**m

kilowatt-hours of carbonfree electricity annually



Expected to offset

938

metric tons of CO2 emissions per year



Equivalent to the amount of carbon

1,224

Acres of forest would sequester per year



# **EDP Renewables - Financial Strength**

EDPR NA DG partners with leading financial institutions in the energy sector to secure funding for our projects, giving our clients a faster, flexible project timeline and an ability to make quick decisions. We have an impressive track record for financing distributed energy systems similar in size and scope. We will secure and manage all financing and related paperwork, freeing our clients from the complexities and bureaucracy of distributed energy financing. With EDPR NA DG managing the financing of the project, we will retain ownership of the PV system and associated equipment warranties. Because our project approach emphasizes customer alignment, we work closely with our clients to ensure that the project is well-planned, from financing down to construction and system operations.

EDPR NA DG also finances development, permitting and construction with equity, both self-generated or provided by its parent company, EDP Renováveis, S.A. (a Spanish sociedade anónima). EDPR NA DG also utilizes tax equity financing with closings occurring on or around Project's commercial operation date.

EDPR NA has successfully entered tax equity partnerships with large financial institutions, raising approximately \$5 billion since 2007. In addition to tax equity, EDPR NA may also consider selling a cash equity stake to institutional equity investors at or after commercial operation date. As of YE 2019, EDPR NA's parent company, EDPR SA, owned \$20.3 billion in total assets, \$9.5 billion in total equity, and \$666 million in cash and cash equivalents (each such amount converted from Euros at 1.145 USD/Euro).

EDPR NA has no material project-level debt in its portfolio, being financed mainly through the previously described sources, and has never filed for bankruptcy protection. EDPR NA's ultimate parent company, EDP S.A., is a rated entity, with current long-term credit ratings of BBB- with a stable outlook (S&P), Baa3 with a stable outlook (Moody's), and BBB- with a stable outlook (Fitch). EDP's Financial Reports may be found at <a href="https://www.edp.com/en/investors/investor-information/reports-and-accounts">https://www.edp.com/en/investors/investors/investors/investors-information/reports-and-results</a>.

If selected for this bid, EDPR NA DG will act as the financing partner for this project.



# **EDP Renewables - Operations and Maintenance**



A map of all EDPR NA DG projects in each state and by mounting type. 39 MW of ground mount and 47.5 MW of rooftop installations comprise a majority of our systems under management.

EDPR NA DG manages operations for more than 88 MW in 20 states. As long-term owners and operators, we are continuously evaluating industry best practices in design and maintenance. We are an employee-owned company with a long-term perspective. We take pride in facilitating projects that are steeped in safety, quality, and alignment. These core values guide every decision and every deal we make. If we develop a project, we also operate it for the life of the contract – no 'flipping'!

#### **Software & Monitoring System**

EDPR NA DG closely monitors the systems under our management with Supervisory Control and Data Acquisition (SCADA). We use AlsoEnergy to verify system performance. Monthly production numbers show in the invoices, and we can provide clients with more detailed quarterly production reports, upon request. We also provide our clients the option to access real-time production data with the AlsoEnergy system.

# **EDP Renewables - 0&M Service Terms**

#### **Operations & Maintenance (O&M) Service Terms**

We will provide O&M services for the entire duration of the contract. Our O&M focuses on optimizing system production, extending system life, and ensuring safe operations of the system. This is accomplished through core O&M services: Preventive, Corrective, and Condition-Based maintenance.

- Preventive Maintenance. Performed at least once a year to reduce the likelihood of system failure. This is comprised of routine inspections of all equipment, equipment servicing, and cleaning. These include, among other things, thermal imaging, IV curve testing, and inverter air filter cleaning to ensure system safety and reliability.
- Corrective Maintenance. This is done on an as-needed basis, i.e., when a part or equipment is broken. The
  speed of response is dependent on the severity of damage and its associated safety and performance risks. If
  an entire site trips offline, we send an O&M crew ASAP.
- Condition-Based Maintenance. Data is used to determine maintenance in this type of service. We use system data to identify underperforming parts, to anticipate system failure, speed repairs, and prioritize maintenance.

We also employ continuous improvement in our O&M processes to ensure we provide safe systems and the best service to our clients. We use feedback loops, monitor industry standards, and consistently gather data on key performance indicators (KPI) across our portfolio. These KPIs include performance ratios, equipment uptime, energy losses, and actual vs. expected vs. planned output, among others.

Michael Howell, our Director for Asset Management, leads our O&M team. He will be your direct contact for all O&M matters and responds to clients' e-mails and calls. We aim to respond and have service personnel on-site within 24 hours from when we receive a report. With active monitoring of the systems under our management, our clients need to worry less about reporting system downtime to EDPR NA DG.



# **EDP Renewables - Project Reference**

Case Study: Cortland Virgil – Cortland, NY

2.67 MW

This 2.73 MW ground-mounted solar array in Upstate New York is in the National Grid service area and supplies power to the local electrical distribution grid. Producing an estimated 3.5 million kilowatt-hours of carbon free electricity annually, this project is expected to offset over 2,453 metric tons of CO2 emissions - equivalent to the annual energy consumption of 295 American households. This project began operating in February of 2021.

A copy of Cortland Virgil's Phase I Environmental Assessment is attached in Appendix A for the OGS's reference.

Contract Signed: June 2020

Operation Date: February 2021

Client Contact: Available upon request

Producing

3.5m

kilowatt-hours of carbon-free electricity annually



Offsets

2,453
metric tons of CO2
emissions per year



Equivalent to

295

American household's annual energy needs



# **EDP Renewables - Project Reference**

Case Study: McLean 2 – Cortland, NY

#### 2.71 MW

This ground-mount solar installation is located in Cortland, NY within National Grid's service territory. Sized at megawatts, approximately 2.71 this system is estimated to produce 3.3 million kilowatt-hours of carbon-free electricity annually. This project is expected to offset more than 2,342 metric tons of carbon dioxide emissions - equivalent to the annual energy needs of 282 American households.

Contract Signed: June 2020

Operation Date: February 2021

Client Contact: Available upon request



Producing

3.3<sub>m</sub>

kilowatt-hours of carbonfree electricity annually



Offsets

2,342

metric tons of CO2 emissions per year



Equivalent to

282

American household's annual energy needs



# **EDP Renewables - Project Reference**

Ohio Public Schools Portfolio – Village of Tontogany, New Lebanon, & Blanchester, OH

#### 1.1 MW

Located on school rooftops and far behind sports fields, these solar systems provide clean and affordable energy to three public school districts across eastern Ohio—those of Otsego, New Lebanon, and Blanchester. This portfolio is a true public-private partnership, powering elementary, middle, and high schools using Ohio's municipal utility networks, and providing significant savings on the schools' electricity bills. These school districts now have more resources to devote to education; not just through finances, but through green workforce opportunities, too, with a handful of stellar high school alumni learning first-hand how to help install solar arrays. It is no wonder the Blanchester mayor granted his stamp of approval.

#### Locations:

- Village of Tontogany, OH: Otsego Elementary, Middle, and High School
- New Lebanon, OH: Dixie Elementary and High School
- Blanchester, OH: Putnam Elementary School,
   Blanchester Middle and High School

**Client Contact:** 

Adam Koch akoch@otsegoknights.org



Producing

2.6m

Kilowatt-hours of carbonfree electricity annually



Offsets

**1,856** metric tons of CO2

emissions per year



Equivalent to

224

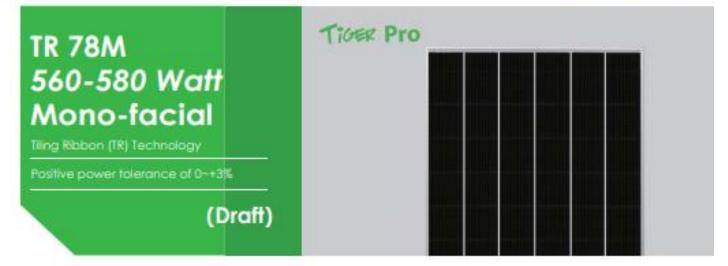
American household's annual energy needs



# **Product Sheets - PV Modules**

www.jinkosolar.com







#### KEY FEATURES



#### TR technology + Half Cell

TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (mono-facial up to 21.21%)



#### MBB instead of 5BB

MBB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



#### Higher Metime Power Yield

2% first year degradation, 0.55% linear degradation



#### **Best Warranty**

12 year product warranty, 25 year linear power warranty



#### Strengthened Mechanical Support

5400 Pa snow load. 2400 Pa wind load













12 Year Product Warranty • 25 Year Linear Power Warranty 0.55% Annual Degradation Over 25 years





Date theet

## 100/125kW, 1500Vdc String Inverters for North America



The 100 & 125kW high power CPS three phase string inverters are designed for ground mount applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 99.1% peak and 98.5% CDC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 100/125kW products ship with the Standard or Centralized Wire-box, each fully integrated and separable with AC and DC disconnect switches. The Standard Wire-box initiaties touch safe fusing for up to 20 strings. The CPS Fiex Gatessay enables communication, controls and remote product upgrades.

#### **Key Features**

- NFFA 70, NEC 2014 and 2017 compliant
- Touch safe DC Fuse holders adds convenience and safety
- CPS Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 1 MPPT with 20 fused inputs for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features (CA Rule 21 certified)
- kVA Headsporn yields 100kW @ 0.9PF and 125kW @ 0.95PF
- Generous 1.87 and 1.5 DC/AC Inverter Load Ratios
- Separable wire-box design for fast service
- Standard 5 year warranty with extensions to 20 years



100/125KTL Standard Wire-box





@CHRYTYOMER SYSTEMS, MARRIES, 2000/01-1007 NA



100/125KTL Centralized Wire-box

8800 full Destroy Parkings, furth 201 Personatus, CA Mills Syl 803-084-7188. Mail Americalisin-polarigonis-conir. Webs syney-third garage systems.com



#### City of Golden, CO Request for Proposal No. CM070622 Page 2 of 29

### **PROPOSER'S CERTIFICATION**

Note: Return this page with your proposal.

The undersig	ned, as an authorized agent of t	the proposer, hereby certifies:			
( 🗸 )	familiarization with all instructions, terms and conditions, and specifications stated in this RFP;				
( 🗸 )	the proposer is qualified to per RFP;	the proposer is qualified to perform the work and services outlined in this RFP:			
( > )	the proposer has reviewed the and	City's Agreement for Professional Services;			
( <b>✓</b> )	that the proposal is valid until_8	8/6/2022 (date).			
EnergyLink L		Jake Robins			
Company Na	me	Authorized Signature			
200 E South	ampton Dr. Suite #102	Jake Robins			
Mailing Addre	ess	Printed Name			
Columbia, MC	D, 65203	Business Development			
City, State, Z	ip Code	Title			
27-2563588	EIN	801.458.5145			
Federal Emp	loyee ID Number (FEIN)	Phone Number			
LLC					
• •	y (sole proprietorship, LLC, LLP, corporation, etc.)	Fax Number			
www.goener	gylink.com	jrobins@goenergylink.com			
Website (if applicable)		Email Address			

#### **Agreement for Project Specification & Payment**



0	<u> </u>				
EnergyLink LLC		Customer			
Officer:	Jeremy Nolen	Name:	City of Golden Community Solar	Officer:	EDP Renewables
Phone:	334.559.9239	Address:		Phone:	
Fmail:	inglen@ggenergylink.com	City/State:	Golden CO	Fmail:	

		Project Specifications	
Quantity	Туре	Description of Work	Price
	Solar Array	Materials	
5116	PV Modules	Jinko 580W Modules	
20	Inverters	CPS 100/125 kW Inverters	
-	Racking	30 degree ground mount fixed tilt	
	DC Combiner panels	DC combiners	
	Networking	Inverter Networking (120V power source, data cables)	
	Taxes	Sales Tax	
	Shipping and Handling	S&H	
	Engineering/Permits		
		Permitting	
		Interconnection Application	
		Interconnection Study	
		Electrical Single Line Diagram - Solar	
		Structural Racking Design Civil/Site Plan	
	Local Materials/Renta	l Equipment	
		Rental Equiptment	
		Telehandler	
		Excavation Equiptment	
		Port-o-potty	
		Safety Gear	
		Hand Tools	
		Onsite Storage	
		Dumpster	
		PV Wire	
		DC BOS	
		Ballast Blocks	
		Roof Penetration/Coring	
		Placards	
		Fence	
		Access Road (Gravel)	
	AC Electrical		
		AC Combiner Panel	
		AC Disconnect	
		Wire/Conduit	
		AC BOS	
	D14/014/1 . II .: 1	Connection to low side of transformer and concrete pad	
	PM/CM/Installation La	abor Installation Labor	
		Inverter Commissioning	
		Travel	
		Construction Management	
		Project Management	
		Engineering Design	
	Bonding		\$0.00
		Exclusions:	
		- Underground conditions	
		- Rock drilling	
		-	
Total Cost	, Taxes and Labor Includ	ed:	\$4,877,057.47
rotal Cost,		eu. able material warranties apply. EnergyLink carries a 5-year labor warra	

All available material warranties apply. EnergyLink carries a 5-year labor warranty. Products and services **Warranty Provided**: are subject to pricing and availability.

The above prices, specifications, and conditions are satisfactory and are hereby accepted. By signing this Agreement, the individual named above authorizes EnergyLink to complete the work as specified herein in Acceptance of Proposal: exchange for payments as scheduled above.



Signature:	
Date:	

## **Agreement for Project Specification & Payment**



	EnergyLink LLC		Custo	mer	
Officer:	Jeremy Nolen	Name:	City of Golden Community Solar	Officer:	EDP Renewables
Phone:	334.559.9239	Address:		Phone:	
Email:	jnolen@goenergylink.com	City/State:	Golden CO	Email:	

		Project Specifications			
Quantity	Туре	Description of Work	Price		
	Solar Array	Materials			
9622	PV Modules	Jinko 580W Modules			
20					
20	Inverters Racking	CPS 100/125 kW Inverters 30 degree ground mount fixed tilt			
	DC Combiner panels	DC combiners			
	Networking	Inverter Networking (120V power source, data cables)			
	Taxes	Sales Tax			
	Shipping and Handling	S&H			
	Shipping and nationaling	ca			
	Engineering/Permits				
		Permitting			
		Interconnection Application			
	Interconnection Study				
		Electrical Single Line Diagram - Solar			
		Structural Racking Design			
		Civil/Site Plan			
	Local Materials/Renta	l Equipment			
		Rental Equiptment			
		Telehandler			
		Excavation Equiptment			
		Port-o-potty			
		Safety Gear			
		Hand Tools			
		Onsite Storage			
		Dumpster			
		PV Wire			
		DC BOS			
		Ballast Blocks			
		Roof Penetration/Coring			
		Placards			
		Fence			
		Access Road (Gravel)			
	AC Electrical				
		AC Combiner Panel			

AC Disconnect

Wire/Conduit

AC BOS

Connection to low side of transformer and concrete pad

#### PM/CM/Installation Labor

Installation Labor

Inverter Commissioning

Travel

Construction Management

Project Management

**Engineering Design** 

Bonding \$0.00

Exclusions:

- Underground conditions

- Rock drilling

**Total Cost, Taxes and Labor Included:** 

\$8,853,195.14

All available material warranties apply. EnergyLink carries a 5-year labor warranty. Products and services **Warranty Provided:** are subject to pricing and availability.

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Phone:	334.559.9239	Address:		Phone:	
Email:	inolen@goenergylink.com	City/State:	Golden CO	Email:	

	Project Specifications					
Quantity	Туре	Description of Work	Price			
	Solar Array	Materials				
  37.981818	PV Modules	Jinko 580W Modules				
1	Inverters	CPS 100/125 kW Inverters				
	Racking	30 degree ground mount fixed tilt				
	DC Combiner panels	DC combiners				
	Networking	Inverter Networking (120V power source, data cables)				
	Taxes	Sales Tax				
	Shipping and Handling	S&H				
	Engineering/Permits					
		Permitting				
		Interconnection Application				
		Interconnection Study				
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		Structural Racking Design				
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		Onsite Storage				
		Dumpster				
		PV Wire				
		DC BOS				
		Ballast Blocks				
		Roof Penetration/Coring				
		Placards				
		Fence				
		Access Road (Gravel)				
	AC Electrical					
		AC Combiner Panel				

AC Disconnect

Wire/Conduit

AC BOS

Connection to low side of transformer and concrete pad

#### PM/CM/Installation Labor

Installation Labor

Inverter Commissioning

Travel

Construction Management

Project Management

**Engineering Design** 

Bonding \$0.00

Exclusions:

- Underground conditions

- Rock drilling

**Total Cost, Taxes and Labor Included:** 

\$234,686.92

All available material warranties apply. EnergyLink carries a 5-year labor warranty. Products and services **Warranty Provided:** are subject to pricing and availability.

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Email:	jnolen@goenergylink.com	City/State:	Golden CO	Email:	

Project Specifications					
Quantity	Туре	Description of Work	Price		
	Solar Array	Materials			
10412	PV Modules	Jinko 580W Modules			
20	Inverters	CPS 100/125 kW Inverters			
20	Racking	30 degree ground mount fixed tilt			
	DC Combiner panels	DC combiners			
	Networking	Inverter Networking (120V power source, data cables)			
	Taxes	Sales Tax			
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		Roof Penetration/Coring			
		Placards			
		Fence			
		Access Road (Gravel)			
	AC Electrical				
		AC Combiner Panel			

AC Disconnect

Wire/Conduit

AC BOS

Connection to low side of transformer and concrete pad

#### PM/CM/Installation Labor

Installation Labor

Inverter Commissioning

Travel

Construction Management

Project Management

**Engineering Design** 

Bonding \$0.00

Exclusions:

- Underground conditions

- Rock drilling

**Total Cost, Taxes and Labor Included:** 

\$9,237,095.50

All available material warranties apply. EnergyLink carries a 5-year labor warranty. Products and services **Warranty Provided:** are subject to pricing and availability.

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Email:	jnolen@goenergylink.com	City/State:	Golden CO	Email:	

		Project Specifications	
uantity	Туре	Description of Work	Price
	Solar Array	Materials	
21108	PV Modules	Jinko 580W Modules	
20	Inverters	CPS 100/125 kW Inverters	
	Racking	30 degree ground mount fixed tilt DC combiners	
	DC Combiner panels	Inverter Networking (120V power source, data cables)	
	Networking		
	Taxes	Sales Tax S&H	
	Shipping and Handling	<b>S</b> αΠ	
	Engineering/Permits		
		Permitting	
		Interconnection Application	
		Interconnection Study	
		Electrical Single Line Diagram - Solar	
		Structural Racking Design	
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		Port-o-potty	
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		Onsite Storage	
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		PV Wire	
		DC BOS	
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		Placards	
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		Access Road (Gravel)	
	AC Electrical		
		AC Combiner Panel	

AC Disconnect

Wire/Conduit

AC BOS

Connection to low side of transformer and concrete pad

#### PM/CM/Installation Labor

Installation Labor

Inverter Commissioning

Travel

Construction Management

Project Management

**Engineering Design** 

Bonding \$0.00

Exclusions:

- Underground conditions

- Rock drilling

**Total Cost, Taxes and Labor Included:** 

\$17,397,800.34

All available material warranties apply. EnergyLink carries a 5-year labor warranty. Products and services **Warranty Provided:** are subject to pricing and availability.

The above prices, specifications, and conditions are satisfactory and are hereby accepted. By signing this Agreement, the individual named above authorizes EnergyLink to complete the work as specified herein in

Acceptance of Proposal: exchange for payments as scheduled above.



Signature:	
Date:	