

Title

INDUSTRIAL SOLAR CONSULTING PARTNERSHIP PLAN

Organization:

Industrial Solar Consulting, Inc.
DUNS 965235639
150 N. William Dillard Dr.
Suite D109
Gilbert, AZ 875233

Location of Primary Benefits:

Kayenta, AZ 86033
Shiprock, NM 87420
Tuba City, AZ 86045
Chinle, AZ 86503
Fort Defiance, AZ 86504
Crownpoint, NM 87313

Short Description:

Our plan is to provide rural electrification, communication and connectivity in unelectrified homes in the rural and remote communities of the Navajo Nation. Through an extensive outreach campaign, we will educate communities about available resources, facilitate access to various programs, and address specific needs such as power, water, communication, and essential services. By building upon existing strategic partnerships, building trust, our approach aims to create lasting change and empower every community. With expected outcomes including increased awareness, enhanced infrastructure, strengthened partnerships, and positive impacts on the environment and economy, we will measure success through community reach, clean energy adoption, funding secured, and partnership growth. Our goal is to transform lives and achieve tangible results while building trust and rectifying historical injustices. With the prize funds, we will maximize our impact and deliver lasting positive change.

Link to Video Pitch:

"Providing Rural Electrification on Tribal Lands - Industrial Solar Consulting (ISC)"

<https://youtu.be/6r83-VD4070>



Off-grid Solar Engineered for Extreme Reliability

iscpv.com

Project Members:

Team Lead Name:

Fernando Vigil

Owner/Principal of Industrial Solar Consulting, Inc.

Fernando J. Vigil leads the ISC team with over 15 years of experience in engineering, designing, consulting, construction and management of off-grid, hybrid, micro-grid and commercial photovoltaic (PV) systems. His extensive solar experience began at one of the world's leading photovoltaic testing laboratories at Arizona State University where his thesis "Hybrid photovoltaic-fuel cell power supply for off-grid security systems" earned him a Master of Science in Renewable Energy. As a Lead PV Systems Engineer for Kyocera Solar, Fernando was responsible for many aspects of their off-grid solar projects including site visit, design, management, commissioning and all the way through to operations and maintenance. As a Distribution Design Consultant with Salt River Project (SRP), he also gained valuable experience designing electrical distribution layouts for many large-scale subdivisions in Phoenix, AZ. His diversity of knowledge in both off-grid and grid-connected solar systems, as well as his hands-on experience as a certified NABCEP solar installer led to the founding of Industrial Solar Consulting, Inc. (ISC) in 2010. The initial objective of ISC was to accelerate the work of offsetting fossil fuel use and reduce operating expenses of off-grid installations. ISC has since expanded to provide next-generation, cutting-edge technology in off-grid, hybrid, military and micro-grid renewable energy systems that have a significant impact on reducing our carbon footprint. As a federal contractor, ISC has consulted and designed systems that have been deployed domestically and internationally while also having a focus on commercial needs, rural electrification and emergency response.

Team Member 2:

Marco Vigil

Director of Field Operations

Marco Vigil has over 8 years of experience working in project management and electrical design, and is currently directing the design, installation and execution of ISC's off-grid systems. Marco attended New Mexico State University where he received his Bachelor of Science in Electrical and Computer Engineering Technology. Prior to working at Industrial Solar

Education

B.S. in Electrical Engineering Technology with a minor in Security Technology and Intelligence Studies from New Mexico State University

M.S. in Energy Systems Engineering with a concentration in Renewable Energy from Arizona State University.

Certificate from Stanford University School of Business via the Stanford Latino Entrepreneur Initiative in conjunction with the Latino Business Action Network (SLEI+LBAN)

Project experience

- 500+ Photovoltaic projects designed and installed (over 24MW Off-grid PV)10MW+ Construction Management and O&M experience.
- 24MWh+ Energy Storage installed and commissioned.
- NABCEP PV Installation Professional #091209-186
- CR-11 ROC#326979
- OSHA 30hr
- PMP Prep (PMP expected fall 2020)
- SBA Emerging Leaders graduate
- ASU/Thunderbird Small Business Leadership Academy graduate
- (ISC) Minority Energy Firm of The Year - 2016 as selected by the Department of Commerce, Minority Business Development Agency
- Adult and pediatric First Aid/CPR/AED trained.
- RF Safety Awareness Certified
- Asbestos Mitigation certified.

Consulting, Marco was a Senior Protection and Control engineer at Oncor Electric Delivery, the fifth largest utility in the US. Marco planned and supervised the installation, commissioning, testing, and maintenance of protective relaying equipment for the EHV and HV power grid across Texas.

Team Member 3

Julie Vigil

Accounting Manager

Julie Vigil is the accounting manager with Industrial Solar Consulting. She has over 16 years of corporate finance and financial planning and analysis experience within private for-profit education and renewable energy. She is an experienced financial analyst with expertise in financial statement preparation, budgeting, and forecasting. She holds a bachelor's degree

in accounting and business/management from New Mexico State University. She oversees all aspects of ISC's finances, including Accounts Payable, Accounts Receivable, Purchasing, Payroll and maintaining the general ledger system and preparing monthly financial statements.

Team Member 4

Brandon Cheshire

Senior Design Consultant

Brandon Cheshire is a licensed electrician with over 25 years of commercial and residential electrical experience. With over 15 years in the solar industry, he has worked on both residential and commercial solar projects personally installing over 2MW of solar. As the qualifying party and founder of SunHarvest Solar, Brandon has managed over 30 MW of commercial and residential solar installations, with a 100% safety rating on all projects. He is a passionate advocate of sustainable practices and has an 11.8 kW solar system on his home in addition to transitioning to EV driving since 2011.

- Sunpower Advance Installation Certification 2016
- Climate Reality Leadership Corps Certification – Chicago 2013
- ABB-BESS Certification 2018
- Runner up for the Better Business Bureau Business Ethics 2018
- State & Foundation Grant Writing Certification – ASU 2022
- NM EE98J Commercial Journeyman Electrician License 2022
- AriSEIA – Chairman of the board 1919-2021
- Adult and pediatric First Aid/CPR/AED trained.
- OSHA 30hr

Project experience and Certifications:

- 1000+ Photovoltaic projects designed and installed (over 30mW grid interactive)10mW+ Construction Management and O&M experience.
- Electrical Journeyman Certification 2001
- New Mexico ER01 Journeyman License 2015
- Junior Drafting Certification 1996 – East Valley Institute of Technology
- Sunpower Associate Design Certification 2009
- Sunpower Advance Design Certification 2016

Notable projects include Phoenix Civic Space, Paradise Valley School District, Anthem School District, Davis Monthan Air Force Base Tucson, Raytheon Tucson, National Bank of Arizona Tucson, Prescott National Forestry Service, Cox Communications, Verizon, T-Mobile, AT&T, Arizona Game & Fish, Navajo Tribal Utility Authority (150 off-grid residential rural electrification sites)

Team Member 5

Tyler Bublik

Project and Implementation Manager

Tyler Bublik has 10 years of solar work experience as an Electrical Engineer for StaraTechnologies, an integration and manufacturing company that specializes in rapidly developing and deploying technologies that meet the immediate operational needs of the US Government (USG). Tyler has also managed multiple projects for General

Dynamics Land Systems that were successfully deployed and implemented ahead of schedule. He is a graduate of Arizona State University (ASU) where he earned his BSE in Electrical Engineering in 2010. During his time at ASU, he worked as an assembly technician at Solar Traffic Controls (STC), an engineering firm which specializes in solar-powered traffic control

products. Tyler manages multiple electrical engineering designs and manages multiple large commercial Operations and Management contracts. His knowledge and ability have made him a vital asset to ensure rigid testing

requirements are met, and all evolving communications engineering are robust and reliable.

Team Member 6

Gabriel Little

Integration Manager/Field Support Technician

Gabriel Little is an IT professional with a wealth of experience gained from three years of intensive training and practical application in the industry. This culminated in his graduation from Navajo Technical University with an associates degree in Information Technology in 2022. Gabriel's skills were put to the test during his involvement in the first Navajo Nation Project in 2020 where he demonstrated his proficiency

in integrating solar systems for Industrial Solar Consulting. In 2022, he was invited to return to ISC as an Integration Manager, having previously integrated 150 solar systems for the first project. His unwavering dedication and meticulous attention to detail ensured a high-quality and consistent deployment of the solar systems across the Navajo Nation, leading to his full-time employment with ISC.

Team Member 7

Blaine Nez

Warehouse Manager/Field Support Technician

- Graduated Lincoln College of Technology in 2010 with an associate degree in automotive engineering in 2010.
- Co-owned and operated The Honest Mechanic automotive repair shop in 2011 to 2012.
- Worked in Rammed Earth Construction from 2014 to 2018.
- Became NABCEP solar certified in 2019