

Three Corners Solar Project

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SECTION 4: TECHNICAL ABILITY

4.0 TECHNICAL ABILITY

The Applicant is a subsidiary of Longroad, which was founded in 2016 by the former executive team of First Wind and includes numerous former First Wind senior leaders and development professionals. For this reason, the experience, track record, and assignment of certain development successes of First Wind are often used interchangeably with the experience and credentials of Longroad. Prior to forming Longroad, the team worked together for over 10 years to successfully develop more than 30 utility-scale solar and wind projects totaling close to 3,300 MW.

Today, Longroad operates and manages approximately 2,700 MW of in-operation or under construction solar and wind projects across the United States. Additionally, Longroad has an active development pipeline of over 6,000 MW.

The Longroad team has a sustained history of success in New England. The team commissioned its first renewable energy project in Maine 13 years ago and continues to operate in the region, as evidenced by the 73-MW Weaver Wind Project developed and constructed by the Longroad team in Hancock County, Maine. The Longroad team has more renewable energy development, construction, and operating experience in Maine and the broader New England region than any other company. Table 4-1 summarizes the New England projects successfully developed by the Longroad team, and Table 4-2 summarizes Longroad's current project portfolio.

Table 4-1. Longroad's Renewable Energy Development Experience in New England

Project(s)	State	Size (MWac)	Technology	COD Year	Renewable Energy Buyer(s)
Mars Hill	Maine	42	Wind	2007	New Brunswick Power
Stetson I	Maine	57	Wind	2009	Constellation Energy
Rollins	Maine	60	Wind	2010	CMP, Bangor Hydro
Stetson II	Maine	25.5	Wind	2010	Harvard University
Sheffield	Vermont	40	Wind	2011	BEC, VECO, WECO
Bull Hill	Maine	34.5	Wind	2012	NSTAR (Eversource)
Millbury	Massachusetts	4	Solar	2013	SREC/Municipal net metering
Warren	Massachusetts	17	Solar	2013	SREC/Municipal net metering
Oakfield	Maine	148	Wind	2015	Eversource, National Grid (Sec. 83A)
Bingham	Maine	185	Wind	2016	Eversource, National Grid (Sec. 83A)
Hancock	Maine	51	Wind	2016	MMWEC, Burlington Electric
Weaver	Maine	73	Wind	2020	Emera Maine
Maine DG Portfolio	Maine	20	Solar	2022	Multiple

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Table 4-2. Longroad's Project Portfolio

Project	Tech.	Size (MWac)	State	COD	Longroad's Role						
					Acquired	Developed	Financed	Constructed	Owned	Operated	Asset Mgmt
Kaheawa Wind Power I	Wind	30	HI	2006		X	X	X	X	X	X
Mars Hill	Wind	42	ME	2007		X	X	X	X	X	X
Steel Winds I	Wind	20	NY	2008		X	X	X	X	X	X
Stetson I	Wind	57	ME	2009		X	X	X	X	X	X
Cohocton	Wind	125	NY	2009		X	X	X	X	X	X
Milford I	Wind	204	UT	2009		X	X	X	X	X	X
Stetson II	Wind	26	ME	2010		X	X	X	X	X	X
Kahuku	Wind	30	HI	2011		X	X	X	X	X	X
Rollins	Wind	60	ME	2011		X	X	X	X	X	X
Milford II	Wind	102	UT	2011		X	X	X	X	X	X
Sheffield	Wind	40	VT	2011		X	X	X	X	X	X
Kawailoa Wind	Wind	69	HI	2012		X	X	X		X	X
Kaheawa Wind Power II	Wind	21	HI	2012		X	X	X	X	X	X
Bull Hill	Wind	34	ME	2012		X	X	X	X	X	X
Steel Winds II	Wind	15	NY	2012		X	X	X	X	X	X
Palouse	Wind	105	WA	2012		X	X	X	X	X	X
MA Solar	Solar	23	MA	2014		X	X	X	X	X	X
Route 66	Wind	150	TX	2015		X	X	X		X	X
Seven Sisters	Wind	23	UT	2015		X	X	X			
South Plains I	Wind	200	TX	2015		X	X	X		X	X
Oakfield	Wind	148	ME	2015		X	X	X			
Idaho Solar	Solar	130	ID	2015		X					
Comanche Solar	Solar	156	CO	2016		X	X	X			
Three Cedars	Solar	263	UT	2016		X	X	X			
Four Brothers	Solar	420	UT	2016		X	X	X			
Bingham	Wind	185	ME	2016		X	X	X			
Hancock	Wind	51	ME	2016		X	X	X			
Sunflower	Wind	104	ND	2016		X	X	X			
South Plains II	Wind	300	TX	2019		X	X	X		X	X
Rio Bravo	Wind	238	TX	2019		X	X	X		X	X
Phoebe	Solar	315	TX	2019		X	X	X			

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Project	Tech.	Size (MWac)	State	COD	Longroad's Role							
					Acquired	Developed	Financed	Constructed	Owned	Operated	Asset Mgmt	
Kawailoa	Solar	66	HI	2019		X						
Waiawa	Solar	62	HI	2019		X						
Waipio	Solar	64	HI	2019		X						
Lanikuhana	Solar	19	HI	2019		X						
Prospero I	Solar	379	TX	2020		X	X	X		X		
El Campo	Wind	243	TX	2020		X	X	X	X	X	X	
Milford I	Solar	128	UT	2020		X	X	X				
Weaver	Wind	73	ME	2020		X	X	X		X	X	
Little Bear	Solar	211	CA	2020	X	X	X	X		X		
MN Repower	Wind	70	MN	2020	X		X	X				
MN Wind	Wind	80	MN	2008/11	X				X	X	X	
Federal Street Onsite & Offsite Portfolio	Solar	299	Multiple	Multiple	X				X	X	X	
Muscle Shoals	Solar	293	AL	2021	X	X	X	X				
Prospero II	Solar	331	TX	2021		X	X	X	X	X	X	
Sun Streams 2	Solar	199	AZ	2021	X			X		X	X	
Maine DG Solar I	Solar	20	ME	2022		X	X	X	X	X	X	
Total Solar		3378										
Total Wind		2845										

4.1 PROJECT TEAM

The team assembled by Longroad to develop this Project has a proven track record of large-scale renewable energy development in New England. The core of the former First Wind executive and development team has been largely reconstituted within Longroad, with individuals that have years of experience in developing, financing, owning, and operating wind and solar projects in New England. Of note, Longroad's Development Team of Matt Kearns and Chad Allen are both Maine-based Longroad employees, as is Jeremy Law and E.J. Martin along with Longroad's Portland, Maine remote operations center staff. Additionally, Longroad has retained specialized consultants to supplement its team for the development of the Project: Stantec Consulting Services Inc. (Stantec; natural resource assessments, soils, permitting); Plisga and Day (survey); the James W. Sewall Company (Sewall; civil engineering, stormwater analysis); SGC Engineering, LLC (SGC; electrical design); Westwood Professional Services (Westwood; solar array grading analysis); Biodiversity Research Institute (BRI; natural resource assessments, wildlife habitat assessments/consultation); SEARCH Inc. (SEARCH; architectural and archaeological

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assessments); T.J. Boyle Associates, LLC (T.J. Boyle; visual impact assessment); Reuter Associates (noise assessment); and Verrill Dana (legal counsel).

4.1.1 Key Personnel

Longroad Executive Team

Chief Executive Officer—Paul Gaynor: Paul is the co-founder of First Wind and, with Longroad, focuses on strategy, capital raising, capital allocation, development, and counterparty management.

Chief Operating Officer—Michael Alvarez: Michael managed all construction, operations, human resources, development, and financing for First Wind, and continues to do so as a member of the Longroad team.

Chief Financial Officer—Pete Keel: Pete led financing, accounting, planning, treasury, and tax and risk functions at First Wind, and continues to do so as a member of the Longroad team.

Chief Investment Officer—Charles Spiliotis: Charles led corporate development and strategic planning at First Wind and continues to do so a member of the Longroad team. He's executed more than \$7 billion in structured financing transactions across the capital structure.

Longroad Project Team

Chief Development Officer and Project Developer—Matt Kearns: Matt has more than 20 years of experience in renewable energy developing projects and leading teams to develop portfolios of renewable energy projects throughout the United States. For over a decade at First Wind, Matt led the development team in the eastern United States. At Longroad, he is responsible for the strategic direction of the company's development plan and management of Longroad's development business day to day. Prior to joining Longroad, Matt ran SunEdison's North American Utility development team with a focus on the United States and Canada. In 2015, he merged the First Wind and SunEdison teams and completed development and supported financing of approximately 1.5 GW of solar and wind projects. Matt is based in Portland, Maine.

Project Development Manager—Chad Allen: Chad has 15 years of experience in renewable energy projects, including project development, project construction, and asset management. Chad is responsible for leading projects through each critical step of the development process from early-phase prospects to operation. Prior to joining Longroad in 2020, Chad spent 16 years with Cianbro focused on renewable energy and transmission projects. Chad is based in Portland, Maine.

Director, Engineering & Construction—Ryan Hartleben: Ryan has managed construction and engineering activities on more than 1.3 GW of utility-scale wind and solar projects over the past 10 years throughout the United States.

Vice President of Construction—Jed Dailey: Jed leads the construction group at Longroad, with over 20 years of experience in renewable energy. He works closely with the development team on initial site selection, design, utility interconnection coordination, and preconstruction. Jed and his team manage the construction phase to ensure a seamless and successful transition into operations.

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Senior Director, Natural Resources Permitting & Policy—Deron Lawrence: Deron has managed over 1.5 GW of permitting for projects in the United States and overseas. He has over 25 years of experience conducting or overseeing natural resource studies and permitting for both solar and wind projects. For more than 10 years, he has been assisting development of utility-scale solar, wind, and transmission line projects from initial due diligence and critical issues assessments through project permitting, acquisition, and operational compliance. At Longroad, Deron is responsible for environmental assessment, field studies, permitting, and compliance for the Longroad portfolio of early-phase prospects through operating projects.

Director, Transmission—Charlie McClelland: Charlie has more than 13 years of experience supporting renewable project evaluation and development. At Longroad, Charlie manages the interconnection study and agreement processes across Longroad's development portfolio. Prior to Longroad, Charlie provided transmission and interconnection support with the development team at FirstWind, and a variety of clean energy technology evaluation services with the Energy Services Division at Cadmus.

Vice President, Operations & Maintenance—EJ Martin: EJ has 15 years of experience in the Operation and Maintenance of renewable energy projects. As head of the Operations and Maintenance team at Longroad, he is responsible for the day-to-day activities of roughly 3.5GW worth of renewable assets spread across the United States. He also manages the 24/7 Remote Operations Center. Prior to Longroad, EJ held similar roles within SunEdison and First Wind. He is based in Portland, Maine.

Vice President, Asset Management—Jeremy Law: Jeremy leads the Asset Management team at Longroad Energy with 3.5 GW of wind and solar assets under management. Working closely with all Longroad functions, Jeremy's team is ultimately responsible for all aspects of asset performance including operational and financial results, contract and regulatory compliance, reporting, and long-term planning. Prior to Longroad, he managed financial planning, budgeting and forecasting at First Wind and SunEdison for a business charged with the development and construction of over 1.5 GW annually. He is based in Portland, Maine.

Stantec

Principal—Krista Clark: Krista is a principal, project manager, and environmental scientist with over 23 years of experience in integrated water resource management. She regularly leads environmental assessments and federal, state, and local permitting throughout New England. Krista primarily focuses on development sectors that involve energy and renewable energy; oil and gas pipelines; electric transmission and distribution lines; transportation and aviation; and industrial, commercial, and residential sites. She also leads construction-phase stormwater management design, permitting, and inspection/oversight in compliance with the National Pollutant Discharge Elimination System (NPDES) permit program. Krista additionally supports operational-phase stormwater management planning, design, permitting, and inspections/monitoring; infrastructure resiliency; water quality monitoring; watershed planning; ecological restoration; and technical expert testimony.

Senior Project Manager and Regulatory Specialist—Brooke Barnes: Brooke is a recognized expert in environmental regulations and permitting, with more than 25 years of experience in the regulatory field. As a former Deputy Commissioner of the MDEP, Brooke offers Stantec clients unparalleled practical expertise in evaluating critical permitting issues for projects, developing permit applications,

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conducting negotiations with state and federal agencies, and assisting in expert witness testimony preparation. Brooke's 15 years of experience at the MDEP included extensive work in enforcement, policy analysis, compliance monitoring, policy development and implementation, licensing, rulemaking, leadership development, and organizational change. In addition to his regulatory experience, he served on the Governor's Alternative Dispute Resolution Task Force, as Acting Chief Counsel to Governor King, and was a Leadership Instructor for the Maine Management Institute, building professional leaders and managers in state government.

Project Scientist—Eben Baker: Eben has over 7 years of professional experience in natural resource surveys, impact assessments, and permitting support throughout the Northeast. He provides consultation services and support on a wide array of projects such as utility-scale solar and wind development, linear utility projects, and various natural resource survey efforts for small- to large-scale projects. Eben's experience includes permitting support and acquisition at the local, state, and federal levels; rare and invasive plant surveys, wetland delineations, vernal pool surveys; wildlife assessments; and environmental monitoring and inspection. With his technical skills and experience in project planning, implementation, and management, Eben has supported development and permitting for several solar and wind energy projects in the Northeast, primarily in Maine and New York.

Sewall

Vice President of Engineering—Brett Hart, PE: Brett joined Sewall in 1999 and has over 19 years of experience in site development and permitting, roadway and intersection design, surveying, and construction administration. He works with private developers, municipalities, and regulatory agencies to ensure successful completion to client endeavors. He has successfully managed numerous projects throughout the Maine, including master plan development, site design, roadway/utility design, state and local permitting, and transportation planning.

Project Manager—Jodi Dube-O'Neal, PE: Jodi is a Project Manager at Sewall with over 17 years of experience in engineering design and permitting. Her primary focus is wind power and renewable energy, highway design, commercial/retail development, and subdivision design, which includes site and utility design, stormwater management, and environmental and construction related permitting.

SGC

Project Manager—Dana Hale: Dana is a Transmission Engineer at SGC with over 25 years of experience in providing engineering solutions for electric utilities, generator developers, and industrial facilities under the supervision of a Professional Engineer. Dana has been directly responsible for numerous projects in the planning, design, and construction phases in the areas of transmission design, distribution design, substation design, material procurement, permit acquisition and cost estimating. He has specific experience in the areas of: Transmission Design Engineering, which includes route selection, Right-of-Way acquisition, line design and contract and construction management; Substation Design Engineering, which includes bus design, structure design, grounding systems and contract and construction management and Distribution Design Engineering, which includes overhead and underground design, utility standards development, line design and construction management.

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Westwood

Project Manager—Matt Gaarder, PE: Matt is a multi-disciplined Project Manager who has been working to provide solutions for the needs of clients since he joined Westwood in 2010. Presently, his focus is primarily overseeing engineering efforts on solar projects across the United States. He has overseen the engineering services for many projects including, but not limited to, over 40 Minnesota Community Solar Garden projects throughout Minnesota, the 100-MWac Aurora Solar Portfolio in Minnesota, the 300-MWac, 200-turbine Rim Rock Wind Farm in Montana, and the 125-MWac, 78-turbine Senate Wind Farm located in Texas.

Civil Engineer—Brett Vanderwiel, PE: Brett is a civil engineer with a demonstrated history working in the construction industry, particularly in the renewable energy market. He is responsible for assisting project managers in the drafting, design, permit applications, and technical support of utility scale solar, battery storage and wind projects. He has been involved in the engineering services for over 240 utility scale renewable energy projects, totaling over 19 thousand megawatts. Including, but not limited to, a 550-MWac two-phase solar site in California, over 50 community solar gardens in Minnesota, grading analysis on a 100-MWac solar site in Maine, two 45-MWac companion solar sites in New York, and a 50-MWac project in Maine utilizing fixed and tracker arrays.

Plisga and Day

Project Manager—Adam Robinson, PLS: is a Maine Professional Land Surveyor as of 2004. Since 1997, he has been with Plisga & Day. Adam excels at boundary surveying of larger tracts of land, industrial ALTA/ACSM Land Title Surveys, and projects requiring extensive records research. Most recently Adam has coordinated most windfarm surveying project handled by Plisga & Day. Additionally, Adam's workload includes project management, boundary surveys, record research, subdivisions, and engineering surveys. Adam has an associate degree in Civil Engineering Technology. He is a member of the Penobscot Chapter and Maine Society of Land Surveyors; National Society of Professional Surveyors and the American Congress on Surveying & Mapping. In addition, he is familiar with Maine State, Land Use Planning Commission, and MDEP regulations.

BRI

Senior Environmental Scientist—Steve Knapp: Steve is a Senior Environmental Scientist with over 18 years of experience specializing in wetland delineations, wetland habitat assessments, vernal pool identification and assessments, stream assessments, and permitting. He has provided a key role in the permitting of several Maine-based solar projects, as well as wetland mitigation and habitat restoration projects.

T.J. Boyle

Principal Landscape Architect—Michael Buscher, PLA, ASLA: Michael is a skilled facilitator and mediator with over 20 years of experience in project design, permitting and aesthetic impact analysis. He has managed visual analysis for over 30 energy infrastructure projects in New England, including numerous visual impact assessments for proposed solar projects. A graduate of Penn State University, Michael practiced in the Washington, D.C. Metro Area before beginning his practice in Vermont in 2011. His designs for urban infill and sustainable community development have won recognition from the

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Vermont Planners Association and the Vermont Chapter of the American Society of Landscape Architects.

Senior Landscape Architect—Jeremy Owens, PLA: Jeremy has over 17 years of experience conducting a wide variety of landscape planning and design services, including site layout, grading, planting plans, lighting design, residential design, commercial and public sector design, aesthetic impact analyses as well as project management. He has contributed to visual analysis for over 15 energy infrastructure projects in New England, including numerous proposed substation, solar, and wind projects. He is also an expert in computer-generated analysis and modeling, with extensive experience in the use of ArcGIS, AutoCAD, 3D Studio Max, WindPRO and Adobe Photoshop to produce photographic simulations, ZTV/Viewshed maps, 3D drafting, maps and graphics for visual impact analysis. Jeremy is a graduate of the University of Georgia College of Environment and Design. Jeremy's designs have won recognition from the Vermont Planners Association, Vermont Urban and Community Forestry Council, and the Vermont Chapter of the American Society of Landscape Architects.

SEARCH

Project Manager and Energy Group Leader—Jacob Freedman, MA, RPA: Jacob joined SEARCH in 2012 and has over 15 years of professional archaeology experience with extensive technical expertise focused on New England, where he began his career. He has managed over 30 projects in New England for SEARCH including large multi-year infrastructure projects in excess of 100 miles. He is qualified to work across the region and spent over a decade supervising field projects before becoming a project manager at SEARCH. He is trained in Section 106 of the NHPA, is listed on the Register of Professional Archaeologists, and has supervised and/or managed cultural resources identification, evaluation, and mitigation projects across the country. He received both his master's and bachelor's degrees from Brandeis University in 2004.

Reuter Associates

Principal—Eric Reuter: Eric has 23 years of experience as a consultant in acoustics and noise control. He is Board Certified by the Institute of Noise Control Engineering, President of the National Council of Acoustical Consultants, and a Fellow of the Acoustical Society of America. He is the immediate past chair of the Society's Technical Committee on Architectural Acoustics. He is an expert in the assessment, prediction, and mitigation of environmental noise, and has conducted several hundred environmental noise studies. Eric is also an Associate Professor at Berklee College of Music where he has taught acoustics courses to more than 5000 students over the past 22 years.