



ORDER OF SAINT BENEDICT  
SAINT JOHN'S UNIVERSITY

Saint John' Solar Fact Sheet - May 15, 2017

	Best Power Int'l, LLC -- I 2009	Best Power Int'l, LLC -- II 2014	Orion Community Solar Gardens 2017	Combined Totals 2009, 2014 and 2017
<b>Land Lease</b>	Saint John's Abbey leases land to Best Power Int'l, LLC	Saint John's Abbey leases land to Best Power Int'l, LLC	Saint John's Abbey leases land to Berkshire Hathaway Energy ( <i>for the Orion Community Solar Gardens, LLC</i> )	
<b>Developer</b>	Best Power Int'l, LLC	Best Power Int'l, LLC	Geronimo Energy	
<b>Investor/Owner</b>	Best Power Int'l, LLC	Best Power Int'l, LLC	Berkshire Hathaway Energy	
<b>Funding Source</b>	Grant: Xcel Energy	Grant: Xcel Energy		
	Equity: Best Power Int'l, LLC	Equity: Best Power Int'l, LLC	Equity: Berkshire Hathaway Energy	
<b>Power Purchase Agreement</b>	Xcel Energy purchases power and supplies to Saint John's Abbey and Saint John's University campus	Xcel Energy purchases power and supplies to Saint John's Abbey and Saint John's University campus	Xcel Energy receives energy from the Community Solar Garden which is fed to the Avon electric substation distribution system	
<b>Power User</b>	Saint John's Abbey and Saint John's University campus	Saint John's Abbey and Saint John's University campus	Community Solar Garden Subscribers: Saint John's Abbey and University -- 40% Five (5) Additional Local Companies -- 60%	
<b>Acreage</b>	3.9 acres	Within the existing 3.9 acres	23.16 acres	Total Acres = 27.06
<b>Location and Site</b>	The solar field is located on the northwest edge of the Saint John's Abbey and Saint John's University campus	Located on existing site	The Orion Community Solar Garden is located adjacent to the existing solar fields at Saint John's Abbey and Saint John's University campus	
<b>Solar Rated Capacity</b>	400 kW of photovoltaic solar	182 kW of photovoltaic solar	3,000 kW of photovoltaic solar	
<b>Annual kW Hours</b>	575,000 kWh of electricity annually	240,000 kWh of electricity annually	5,100,000 kWh of electricity annually	Total Solar Electricity produced = 5,915,000 kWh
<b>Homes Powered</b> * (9720 kWh annually per home) <small>From U.S. Energy Information Administration per Minnesota Average</small>	Average of 59 homes annually	Average of 25 homes annually	Average of 525 homes annually	Total Homes Powered Annually = 609 homes
<b>Solar Electricity Consumed by Saint John's -- Annually</b>	575,000 kWh (Saint John's per contract buys 100%)	240,000 kWh (Saint John's per contract buys 100%)	2,040,000 kWh (Saint John's per contract buys 40%)	2,855,000 kWh Total
<small>For Saint John's: FY 2016 -- 15,226,000 kWh</small>	Supplies <b>3.77%</b> of annual electrical needs at Saint John's	Supplies <b>1.58%</b> of annual electrical needs at Saint John's	Supplies <b>13.4%</b> of annual electrical needs at Saint John's	Supplies a total <b>18.75%</b> of annual electrical needs at Saint John's

Physical Plant

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<b>Solar Modules</b>	1,820 solar panels, 60 cells each	616 solar panels, 72 cells each	34,000 modules manufactured by First Solar	
	Typical module is 3' x 5' rated at 220 watts each	Typical module is 3' x 6' rated at 295 watts each	Typical module is 3.9' x 1.9' rated at 112.5 watts each	
	Polycrystalline (c-Si) 13.7% efficient modules	Polycrystalline (c-Si) 14.1% efficient modules	Thin-film CdTe semiconductor, up to 15.6% efficient modules	
	35 Azimuth Tracker driven by two 1hp motors	Fixed Racking system at 35 degrees facing South	Fixed Racking system at 35 degrees facing South	
<b><u>Equipment:</u></b>				
<b>Panel</b>	Siliken Energy 220W Polycrystalline	Trina Solar 295W Polycrystalline	First Solar 112.5 Thin-film Cd-Te (Series 4)	
<b>Inverter</b>	Advanced Energy Solaron 500 kW, 480 VAC	7- SMA 20000TI-US String Inverters	3 - Power Electronics PS1004CU	
<b>Tracker</b>	WattSun Micro-Megawatt Horizontal Tracker	Fixed Racking system at 35 degrees facing South	Fixed Racking system at 35 degrees facing South	
<b><u>Other:</u></b>				
<b>System Host:</b>	Saint John's Abbey and Saint John's University	Saint John's Abbey and Saint John's University	Saint John's Abbey and Saint John's University	
<b>Designer:</b>	Westwood Renewables, LLC	Hunt Electric Corporation	M+W Group	
<b>Solar Facility Owner/Operator:</b>	Best Power Int'l, LLC	Best Power Int'l, LLC	Berkshire Hathaway Energy	