First Solar

Customized Project Results for:

ID-0061881
Brian More
k2 management

Thank You for Your Interest in First Solar, a Global Leader in PV Energy

With more than 17 GW of our advanced thin film modules installed worldwide, First Solar has an unparalleled track record of delivering reliable, clean solar energy. Our technology is also backed by the strongest balance sheet and most sustainable technology in the industry.

THE MOST RELIABLE MODULE ON THE MARKET

First Solar's advanced thin-film modules are the most reliable and tested module on the market today. Our module is one of only five modules in the world to pass Atlas 25+, the Thresher test and the TUV Long-Term Sequential Tests. Our modules also stand up in the field with minimal breakage rates and proven energy yields.

THE ENERGY ADVANTAGE

Our thoroughly-tested technology generates more energy for your solar plant with a module designed to deliver up to **10 percent more energy** in real world conditions. First Solar's unique thin-film technology outperforms c-Si via a superior temperature coefficient, better spectral response and better shading response.

YOUR REPORT

The report below outlines the specific energy advantage possible for your site. If you would like a more in-depth analysis, visit www.plantpredict.com.

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Energy Capacity Assessment

Project Information

Location		Construction Information	
Latitude:	34.2910	Year:	2019
Longitude:	-103.1042	Quarter:	Q1
Acres:	2733.384	DC:AC Ratio:	1.2000
Hectares:	1106.162237424	GCR:	50.00%
*GHI (KWh/m^2):	1734.00	Mounting:	Fixed Tilt
*DHI (KWh/m^2):	716.00	Tilt Angle:	25 °
*Average Temp:	63.68° F	Setback:	0 ft
*Relative Humidity	64.10000000000001 %		
Data source Meteonorm 7.1			

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Energy Capacity Assessment

Your Results

Capacity	First Solar	Poly c-Si
1st Year Energy:	1,435.90 GWh	1,269.54 GWh
Megawatts DC:	896.48	845.32
Megawatts AC:	747.07	704.43

Energy Capacity Assessment

GLOSSARY

DC:AC Ratio: the photovoltaic array power divided by the inverter capacity.

GHI: Global Horizontal Irradiance (GHI) is the total amount of terrestrial irradiance per unit area incident on a surface horizontal to the surface of the Earth.

DHI: Diffuse Horizontal Irradiance (DHI), a component of GHI, is the amount of terrestrial irradiance per unit area incident on a flat surface that has been scattered or diffused by the atmosphere.

Fixed Tilt: Racking system for PV Modules that is designed to a specific static angle.

Tracker: Racking system for PV Modules that is designed to follow the path of the sun as closely as possible on a single axis throughout the day.

SITE ASSUMPTIONS

Ground Type:	Flat Plane on Level Ground	
Direction:	Equatorial Facing	
Slope:	Absolute Value of Latitude (in degrees)	Tilt Angle (in degrees)
	0-5	5
	5-15	10
	15-25	15
	25-35	20
	35+	25
Table Size:	1 high x 18 wide	
String Size:	6 modules per string	

For more information, contact EnergyCapacitySupport@FirstSolar.com