

ENF Solar Assessed Supplier

Assessment Report Presented to:

Suzhou Luxen Solar Energy Co., Ltd. 苏州市乐能光伏有限公司

Service Commissioned by:



Service Provided by:



August 31, 2021

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Introduction

This report has been commissioned by ENF Solar – the world's most visited solar website. Inspections have been undertaken by TÜV Rheinland – a testing service provider who have been testing solar components since 1985. TÜV Rheinland is part of TÜV Rheinland Group, a technical services company established in 1872 and employing 17,000 staff around the world.

To make these reports, TÜV Rheinland sends inspectors directly to the factories to collect data, take pictures and check documents.

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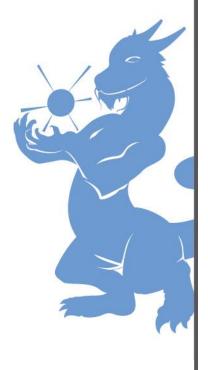
The objective of validating supplier information is to provide additional confidence to buyers so that they know the information has been verified by an independent third party.

The TÜV Rheinland "Supplier Capability Assessment" program is not designed to be a performance standard but rather an information validation program against an established criterion providing potential buyers with information on the establishments stated claims and capabilities.

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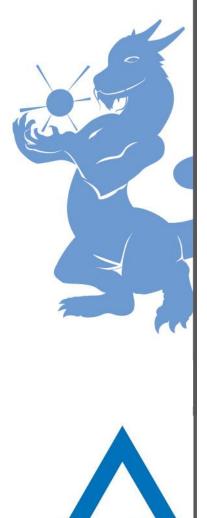
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Company Overview

Identification	Details			
Company Name	Suzhou Luxen Solar Energy Co., Ltd.			
	No. 1, Haiyue Road, Sutong Science and Technology Industrial Park, Chongchuan District, Nantong City, Jiangsu Province, China.			
			belongs to Luxen Solar uxen Solar Energy Co., L	
Facility address	Contact Person:	Mr.	Luis Liu	
	Tel:	008	6-512-67081572	
	Fax: 0086-512-67081570			
	E-mail: sales@luxensolar.com			
URL/Web Address	http://www.luxensolar.com			
Report Date	20/Aug./2021			
Expiry Date (24 months validity)	20/Aug./2021 19)/Aug	./2023	
Name of Assessor	Tim Zhang			
Overall Turnover of Last Year	Confidential			
Total Building Size	10,768 m ²			
Number of Buildings	2			
Office Size	500 m ²			
Working Day	Monday to Friday Working Hours 08:00 11:30 12:30 17:00			





Legal Entity

Legal Entity					
Business License Number	91320691MA21BH8E30				
Year Established	24/Apr./2020		Validity Period:	24/Apr./2020 31/Dec./2049	
Registered Address	Haiyue Road, Sutong Scie District, Nantong City, Jia			strial Park, Chongchuan	
Company Address	Haiyue Road, Sutong Science and Technology Industrial Park, Chongchuan District, Nantong City, Jiangsu Province, China.				
Registered Capital	RMB 50,000,000				
Corporate Representative	Mr. Qinhui Zhang				
Industry	Solar Energy Products				
Products /Service	Solar Modules				
Business Type	Manufacturer Trading Company Combined				
Type of Ownership	Private Owner Dublic Company Joint Venture				
				Other	





Human Resources

Company Organization Chart					
Admin. Dept.	oduction Dept. Dept. Qu	GM ality Dept. Financial Dept. Sales Dept.	Purchasing Dept.		
Department Name	Full Time Employee(s)	Part-Time Employee(s)	Total		
GM	1	0	1		
Admin. Dept.	12	0	12		
Production Dept.	68	0	68		
Technology Dept.	14	0	14		
Quality Dept.	12	0	12		
Financial Dept.	4	0	4		
Sales Dept.	6	0	6		
Purchasing Dept.	2	0	2		
Totals	119	0	119		



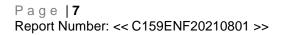


Export Business Capacity

Current Export Situation

There are 2 foreign trading employees in the company.

	Working Experience	Headcount		Accepted Language	Listening Speakir			ding & iting
	Over 30 Years	0		English	Yes		Yes	
	21-30 Years	0		N/A	N/A		N/A	
	11-20 Years	0		N/A	N/A		N/A	
	6-10 Years	2		N/A	N/A		N/A	
	2-5 Years	0		N/A	N/A		N/A	
	Less than 2 years	0		N/A	N/A		N/A	
Does the company have a valid export license? Trade Agents Employed Overseas			Export License Registration No.: 04240957			□ No		
	arest Port			Shanghai Port	t			
Accepted Payment Terms		🛛 FOB	CIF	⊠ ex	Ŵ	🖾 CFR		
		⊠ L/C	🛛 Т/Т	☐ Cro Card	edit	🛛 Cash		
Accepted Payment Types		⊠ West Union	Money Gram	🗌 Pa	ypal	Money booker		
Average lead time from product order confirmation to production delivery (products exiting the company)			7 20 Days		·		•	







Market Distribution (Previous 12 Months)					
Market	Main Product(s)	Total Revenue (%)			
North America	Solar Modules	19			
South America	Solar Modules	4			
Eastern Europe	N/A	0			
Southeast Asia	Solar Modules	18			
Africa	N/A	0			
Oceania	N/A	0			
Middle East	Solar Modules	12			
Eastern Asia	N/A	0			
Western Europe	Solar Modules	11			
Central America	N/A	0			
Northern Europe	Solar Modules	6			
Southern Europe	N/A	0			
South Asia	N/A	0			
Domestic Market	Solar Modules	30			





Product Capabilities

Production Capacity								
Product Name	Production Line Capacity (Monthly)	Actual Units Produced (Previous Year)						
Solar Modules	25WM / Month	205WM						

Production Machinery							
Key Machine Name	Brand & Model No.	Quantity	Condition				
Laser Scribing Machine	ATW & HC40A	6	Acceptable				
Series Welding Machine	ATW & MS40K	11	Acceptable				
Stir Welding Machine	Ningxia XN & DH180-H	2	Acceptable				
Automatic Taping Machine	Suzhou DRL & AS72918-A01- ZY01	2	Acceptable				
Laminating Machine	Yingkou Jinchen & JCCY2774-T	8	Acceptable				
Glue Machine	Shanghai Shenpu & SPZ-AB10	2	Acceptable				







Key Testing Machinery

Aachine Name Brand & Model No.		Quantity	Condition
Separator	KOPAD & KP-X-C	2	Acceptable
EL tester	KOPAD & KP-X-D	2	Acceptable
PV-Module Electric Security Meter	HPOE TECH & CHT9981A	1	Acceptable







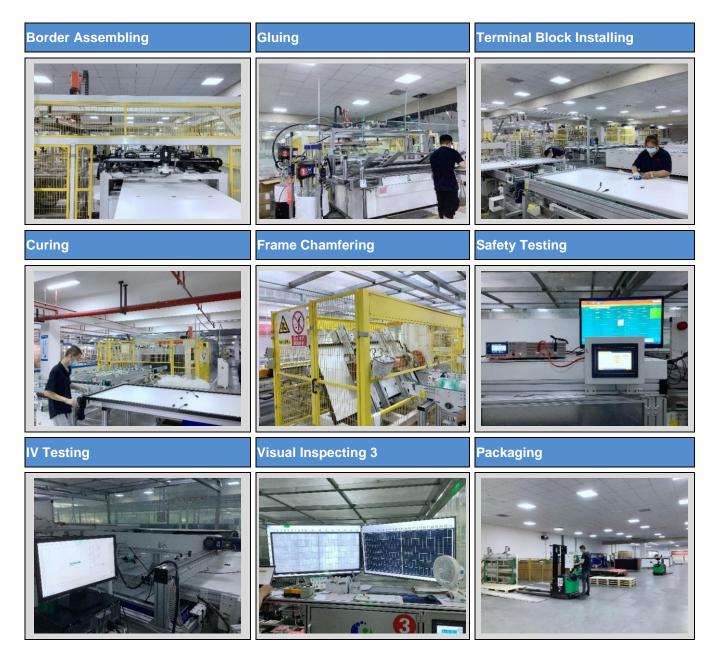
Production Flow (Solar Modules)



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TÜVRheinland[®] Precisely Right.









R & D Capacity

Current Situation

There are 14 R&D engineers in the company.

Education Level	Headcount	Work Experience	Headcount
ctorate	0	Over 30 Years	0
ost-Graduate	0	21-30 Years	0
raduate	4	11-20 Years	3
Junior College	10	6-10 Years	4
Technical School	0	2-5 Years	7
High School	0	Less than 2 years	0

Brand Situation							
Registration/application No.	Brand Name	For Approval to Use Goods	Validity Date	Ref.			
N/A	N/A	N/A	N/A	N/A			

Patent Situation							
Patent No.	The Name of the Patent	The Patent Type	Available Date	Ref.			
ZL 2019 1 1392961.0	The utility model relates to an installation structure for solar panels	Invention patent	09/Feb./2021 09/Feb./2041	Photo in Certification & Photos (Patent Photos)			
Does the company provide OEM/ODM service for others?			⊠ Yes	□ No			
Are there relevant design input/output, review, and verification documents available for the assessed company?			⊠ Yes	□ No			
Based on inspection, are R&D employees equipped with adequate specialized equipment?			⊠ Yes	🗌 No			
Do R&D employees use any specific software for designing new products?			⊠ Yes	□ No			





Development Devices

Intelligent Digital Display Electric Heating Sleeve	Electric Constant Temperature Blast Drying Oven	N/A
		N/A





Management Systems & Quality Control Management

Quality Management System Certification					
Certification	Certified By	Certificate No.	Business Scope	Expiry Date	
ISO9001:2015	CQC, CNAS	00121Q35846R0M/3200	Solar Photovoltaic Cell Module Production	28/Jun./2021 27/Jun./2024	
ISO14001:2015	CQC, CNAS	00121E32516R0M/3200	Solar Photovoltaic Cell Module Production and Related Management Activities	29/Jun./2021 28/Jun./2024	
ISO45001:2018	CQC, CNAS	00121S31910R0M/3200	Solar Photovoltaic Cell Module Production and Related Management Activities	29/Jun./2021 28/Jun./2024	
GB/T 29490-2013	ZGRZBJ	18121IP0482R0S	Production, sales and intellectual property management of related procurement of solar PV modules.	19/Jul./2021 18/Jul./2024	

Product Certification					
Certification	Certified By	Certificate No.	Product Name & Model No.	Expiry Date	
CE	ECM	3J210422.LSEUQ06	Crystalline Silicon Photovoltaic Modules & LNVH and LNSE series	22/Apr./2021 21/Apr./2026	
TUV Certificate	TUV SUD	Z2 095833 0019 Rev.00	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules Mono-crystalline Silicon Photovoltaic Module	10/May/2021 06/May/2026	
Solar Product Certificate	CQC	CQC21024308341	Mono-Crystalline Silicon Photovoltaic Module & LNVH, LNVK, LNSK and LNSU series	11/Aug./2021 20/Apr./2026	
Solar Product Certificate	CQC	CQC21024308343	Mono-Crystalline Silicon Photovoltaic Module & LNVH, LNVK, LNSK and LNSE series	11/Aug./2021 20/Apr./2026	

Test Report			
Test Report	Certified By	Product Name & Model No.	Expiry Date
N/A	N/A	N/A	N/A





Quality Control Management				
Content	Observations / Comments			
Does the company set up any inspection standards for raw materials?	⊠ Yes		🗌 No	
Has the company set up necessary quality inspection standards in the process of production?	🛛 Yes		🗌 No	
Does the company have any measures to control the management of unqualified materials after sampling, to avoid mixing up or wasting?	⊠ Yes		□ No	
Are work instructions available at the location where the processes take place?	☐ Parts of the line		□ No	
Is personal protective equipment (PPE) needed in the production line?	⊠ Yes		🗌 No	
Is the management and usage of production materials as well as the production process executed by staff who are appropriately trained and qualified or by senior staff?	⊠ Yes		🗌 No	

Supplier Management				
Content Observations / Comments				
Does the company have a supplier assessment procedure?	🛛 Yes			🗌 No
Does the company establish and implement a standard procedure for purchasing contract review and approval?	Yes, with written standard procedures	Yes, with written procedure but lack of consistent standard		🗌 No
Does the company keep its supplier assessment reports?	Yes, Keep for <u>1</u> years available			🗌 No





Are the company's purchasing documents sufficient to ensure product safety control and their customers' requirements?	Yes, the purchasing document includes all the information required	Yes, however the purchasing document includes incomplete information		□ No
Is there a procedure to conduct random product inspections after final packaging?	Yes, with clear standard and written inspection records	Yes, with inspection records but no procedures	Yes, with procedures but no inspection records	□ No, inspections are not necessary

After Sales Service				
Content	Observations / Comments			
Has the company set up any procedure for customer feedback, including complaints, clearly recorded and maintained?	Yes, with a standard feedback form and records	Yes, with a standard feedback form but no records	records but no standard	□ No
Are there any clear procedures for handling customer complaints?	Yes, with clear procedures and written records	Yes, with clear procedures but no written records	Yes, with written records but no clear procedures	🗌 No
Does the company have the SOP (Standard Operation Procedure) for after-sales service? Does the company provide after-sales consulting services?	⊠ Yes		1	🗌 No
Does the company implement the provisions of the National Three Warrantees (warrantee for repair/replacement /return) for their products?	🛛 Yes			🗌 No





Corporate Social Responsibility

Child Labour & Forced Labor				
Content	Observations / Comments			
Is it clarified that there's no child labor in the company?	🛛 Yes	□ No		
Does the company have an explicit job management program, and take corresponding measures to check the age of the employees?	🛛 Yes	□ No		
Are the staff clearly aware of the terms of labor contract, regulations of the company and the right of free employment?	⊠ Yes	□ No		
Have the staff been forced to work overtime? Will they be fined or fired if they refuse to?	☐ Yes	⊠ No		

Health and Safety			
Content	Observations / Comments		
Has the company set up a safety responsibility system, and distributed to all levels of supervisor and provided them with corresponding training?	⊠ Yes	□ No	
Does the company conduct regular inspection of the plant and equipment, to ensure the health and safety of the workshop at least in accordance with the law?	⊠ Yes	□ No	
Does the company regularly provide necessary safety and health training, to make the staff understand that there might be occupational hazards in their work, and take appropriate protective measures when necessary? (For example, how to use personal protective equipment safely, etc.)	⊠ Yes	□ No	
Does the company hold regular fire drills, including fire drills and evacuation drills? Do the staff clearly know how to raise an alarm, how to evacuate and how to use the fire extinguisher?	⊠ Yes	No (No regular fire drill was conducted by the factory)	
Does the company have the approval report issued by the local Fire Bureau?	⊠ Yes	No	
Does the company provide sufficient first aid equipment? Are first-aid kits and trained first-aiders available in each workplace?	☐ Yes	No (No qualified first aider available in workshop)	





Does the company provide clean lavatories, separating men's and ladies'?	⊠ Yes	□ No
Does the company provide clean drinking water to the staff? Is there unrestricted access to the drinking water?	🛛 Yes	□ No





Development / Expansion Plans

Company Development / Expansion Plans		
Company Development Action	Timeframe	
N/A	N/A	





Certification & Photos

Certification













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