

### **ENF Solar Assessed Supplier**

Assessment Report Presented to:

Xiamen Grace Solar New Energy Technology Co., Ltd.

厦门国瑞能新能源技术有限公司

Service Commissioned by:

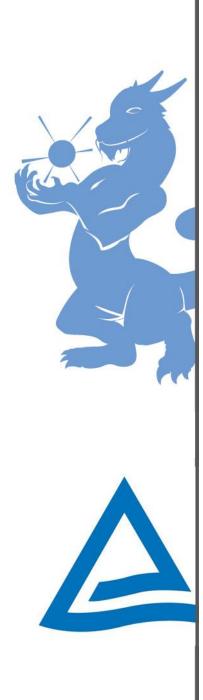


Service Provided by:



November 9, 2022

Report Number: <<C159ENF20221001>> Report Date: 02/Nov./2022 Expiry Date: 01/Nov./2024 Online Verification: https://verified.chn.tuv.com



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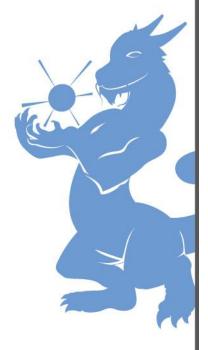
The objective of validating supplier information is to provide additional confidence to buyers so that they know the information has been verified by an independent third party.

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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### **Company Overview**

Identification	Details					
Company Name	Xiamen Grace Solar New Energy Technology Co., Ltd.					
	Building BC, No. 3, Wankeyunxi, No. 527/529, Gaolin Mid-Road, Huli District, Xiamen City, Fujian Province, China					
	Contact Person: Ms Huang					
Facility address	Tel:	008	6-592-3671838			
	Fax:	Nil				
	E-mail:	E-mail: info@gracesolar.com				
URL/Web Address	http://www.gracesolar.com					
Report Date	02/Nov./2022					
Expiry Date (24 months validity)	01/Nov./2024					
Name of Assessor	Eric Huang					
Overall Turnover of Last Year	RMB 13,029,455.6	6				
Total Building Size	1109.1 Square Me	ters				
Number of Buildings	1					
Office Size	1109.1 Square Meters					
Working Day	Monday to Friday Working Hours 08:30 18:00					





Identification	Details				
Related Company Name	Xiamen Grace Sol	Xiamen Grace Solar Technology Co., Ltd.			
Relationship with Xiamen Grace Solar New Energy Technology Co., Ltd.	Shareholder				
	No. 1662, Butang Xiamen City, Fujia		Road, Tongxiang High-To vince, China	ech Industrial Park,	
	Contact Person:	Ms.	Lamaara Lan		
Related Facility address	Tel:	0086	6-13616056033		
	Fax:	Fax: Nil			
	E-mail:	mar	keting01@gracesolar.co	m	
URL/Web Address	http://www.gracesolar.com				
Report Date	02/Nov./2022				
Expiry Date (24 months validity)	01/Nov./2024				
Name of Assessor	Eric Huang				
Overall Turnover of Last Year	RMB 195,373,071	.37			
Total Building Size	54,357.64 Square	Mete	rs		
Number of Buildings	5				
Office Size	5,000 Square Meters				
Working Day	Monday to Friday Working Hours 08:00 17:00				





# Legal Entity

Legal Entity (Assessed Supplier Xiamen Grace Solar New Energy Technology Co., Ltd.)					
Business License Number	91350200MA33LH3728	91350200MA33LH3728			
Year Established	10/Mar./2020		Validity Period:	31/Dec./2049	
Registered Address	Room 612, No. 942, Tong Industrial Area, Xiamen C			n-Tech Zone(Xiang'an)	
Company Address	Building BC, No. 3, Wankeyunxi, No. 527/529, Gaolin Mid-Road, Huli District, Xiamen City, Fujian Province, China				
Registered Capital	RMB 50,000,000				
Corporate Representative	Mr. Laifu Huang				
Industry	Renewable Energy				
Products /Service	Mounting System				
Business Type	Manufacturer     Xrading Company     Combined				
Type of Ownership	Private Owner Dublic Company Joint Venture				
	Stated Owned	Stated Owned Sole Proprietorship Other			



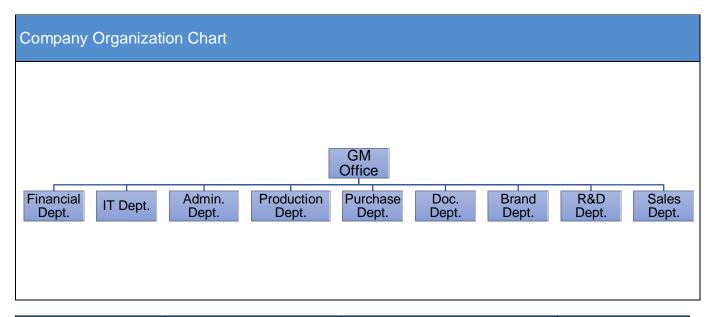


Legal Entity (Related Company Xiamen Grace Solar Technology Co., Ltd.)					
Business License Number	9135020657504790X2				
Year Established	18/Aug./2011		Validity Period:	17/Aug./2061	
Registered Address	No. 1662-1, Butang Mid-F City, Fujian Province, Chi		Fongxiang High-Tech	Industrial Park, Xiamen	
Company Address	No. 1662, Butang Mid-Ro City, Fujian Province, Chi		ngxiang High-Tech li	ndustrial Park, Xiamen	
Registered Capital	RMB 6,000,000				
Corporate Representative	Ms. Lixue Wu				
Industry	Renewable Energy				
Products /Service	Mounting System				
Business Type	Manufacturer Trading Company Combined				
Type of Ownership	Private Owner Dublic Company Joint Venture				
	Stated Owned	🗌 So	ble Proprietorship	Other	





### **Human Resources**



Department Name	Full Time Employee(s)	Part-Time Employee(s)	Total
GM Office	3	0	3
Financial Dept.	6	0	6
IT Dept.	1	0	1
Admin. Dept.	7	0	7
Production Dept.	68	0	68
Purchase Dept.	3	0	3
Doc. Dept.	3	0	3
Brand Dept.	3	0	3
R&D Dept.	14	0	14
Sales Dept.	25	0	25
Totals	133	0	133





### **Export Business Capacity**

### **Current Export Situation**

There are 25 foreign trading employees in the company.

Working Experience	Headcount		Accepted Language	Listening Speakir		ading & Vriting
Over 30 Years	0	E	English	Yes	Yes	
21-30Years	0		Japanese	Yes	Yes	
11-20 Years	2	1	N/A	N/A	N/A	
6-10 Years	8	1	N/A	N/A	N/A	
2-5 Years	10		N/A	N/A	N/A	
Less than 2 years	5	1	N/A	N/A	N/A	
oes the company have a v	alid export license	?	Yes Export Licen: 04509477	se Registratior	n No.:	
rade Agents Employed Ove	Employed Overseas		☐ Yes			🖂 No
earest Port			Xiamen Port			
ccepted Payment Terms			S FOB	⊠ CIF	🖾 EXW	⊠ CF
			⊠ L/C	🖂 Т/Т	Credit Card	🗌 Ca
ccepted Payment Types			Union	Money     Gram	Paypal	D Mc booke
verage lead time from prod roduction delivery (products			7 Days			





Market Distribution (Previous 12 Months)					
Market	Main Product(s)	Total Revenue (%)			
North America	Mounting System	2			
South America	Mounting System	2			
Eastern Europe	Mounting System	4			
Southeast Asia	Mounting System	20			
Africa	Mounting System	4			
Oceania	Mounting System	15			
Middle East	Mounting System	5			
Eastern Asia	Mounting System	30			
Western Europe	Mounting System	2			
Central America	Mounting System	2			
Northern Europe	Mounting System	2			
Southern Europe	Mounting System	8			
South Asia	Mounting System	3			
Domestic Market	Mounting System	1			





# **Product Capabilities**

Production Capacity		
Product Name	Production Line Capacity (Monthly)	Actual Units Produced (Previous Year)
Mounting System	150 HQ Containers/Month	1,400 HQ Containers

Production Machinery			
Key Machine Name	Brand & Model No.	Quantity	Condition
Cutting Machine	Baiju	5	Acceptable
Punching Machine	APA-25, APA-80, APA-110, APA -160	14	Acceptable
Automatic Composite Punching Machine	Baiju	5	Acceptable
Automatic Punching Machine	Zhesheng & APO 315	1	Acceptable
Tube Shrinking Machine	No Information	2	Acceptable
Welding Machine	No Information	7	Acceptable
Automatic Welder	Yaskawa	4	Acceptable
Shot Blasting Machine	Minruicheng	1	Acceptable
Roller Press	No Information	4	Acceptable
Bending Machine	PSH	4	Acceptable
Cleaning Line	No Information	1	Acceptable





Cutting Machine	Punching Machine	Automatic Composite Punching Machine
Automatic Punching Machine	Tube Shrinking Machine	Welding Machine
Automatic Welder	Shot Blasting Machine	Roller Press
Bending Machine		N/A





Key Testing Machinery						
Machine Name	Brand & Model No.	Quantity	Condition			
Salt Spray Test Chamber	Yaseline	1	Acceptable			
Temp. & Humi. Test Machine	Yaseline	4	Acceptable			
Tensile Strength Test Machine	Haida & HD B621-50	1	Acceptable			

Salt Spray Test Chamber	Temp. & Humi. Test Machine	Tensile Strength Test Machine

### Production Flow (Product name)

Raw Materials	Cutting	Machining







# **R & D Capacity**

#### **Current Situation**

There are 14 R&D engineers in the company.

Education Level	Headcount
Doctorate	0
Post-Graduate	0
Graduate	14
Junior College	0
Technical School	0
High School	0

Work Experience	Headcount
Over 30 Years	0
21-30 Years	0
11-20 Years	2
6-10 Years	5
2-5 Years	5
Less than 2 years	2

# **Brand Situation** Registration/application For Approval to

No.	Brand Name	Use Goods	Validity Date	Ref.
54661660	Refer to photo	Class 9	21/Apr./2022 20/Apr./2032	Refer to photo
54932446	Refer to photo	Class 9	21/Oct./2021 20/Oct./2031	Refer to photo
54916287	Refer to photo	Class 6	21/Oct./2021 20/Oct./2031	Refer to photo
54903144	Refer to photo	Class 42	21/Oct./2021 20/Oct./2031	Refer to photo
54974633	Refer to photo	Class 9	07/Jan./2022 06/Jan./2032	Refer to photo
54971330	Refer to photo	Class 6	28/Dec./2021 27/Dec./2031	Refer to photo





Patent Situation				
Patent No.	The Name of the Patent	The Patent Type	Available Date	Ref.
ZL 2021 2 2384358.7	Connecting piece and photovoltaic support	The patent for utility model	03/May/2022	Refer to photo
ZL 2020 2 1960511.5	Stand column for photovoltaic support	The patent for utility model	31/Aug./2021	Refer to photo
ZL 2021 2 2384006.1	Waterproof keel and waterproof framework for erecting photovoltaic panel	The patent for utility model	03/May/2022	Refer to photo
ZL 2021 2 2662168.7	Locking piece of photovoltaic support bottom frame	The patent for utility model	24/May/2022	Refer to photo
ZL 2019 3 017647.9	Adjusting pressure block	The appearance patent	13/Dec./2019	Refer to photo
Does the company provide	OEM/ODM service for a	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(N/A)**

N/A	N/A	N/A
N/A	N/A	N/A





### Management Systems & Quality Control Management

Quality Management System Certification				
Certification	Certified By	Certificate No.	Business Scope	Expiry Date
ISO9001:2015	SGS	CN12/30449	Design and manufacture of solar panel bracket	04/Apr./2021 03/Apr./2024

Product Certificati	ion			
Certification	Certified By	Certificate No.	Product Name & Model No.	Expiry Date
TUV SUD Certificate	TUV SUD	B1113500003 Rev.00	Photovoltaic Mounting System	04/Feb./2021 03/Feb./2026
TUV SUD Certificate	TUV SUD	B1113500004 Rev.00	Photovoltaic Mounting System	27/Apr./2021 26/Apr./2026
Certificate of Compliance	JQA	JQCN21008	Extruded shape	22/Nov./2021 21/Nov./2024

Test Report			
Test Report	Certified By	Product Name & Model No.	Expiry Date
Test Report	SGS	99 High Opening Column Head Assembly	10/Dec./2021

Quality Control Management				
Content	Observations / Comr	nents		
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 _3_ 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?	standard	Yes, with a standard feedback form but no records	records but no	□ 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			□ 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 labour 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 No	

Health and Safety		
Content	Observations	s / Comments
Has the company set up a safety responsibility system, and distributed to all levels of supervisor and provided them with corresponding training?		□ 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**

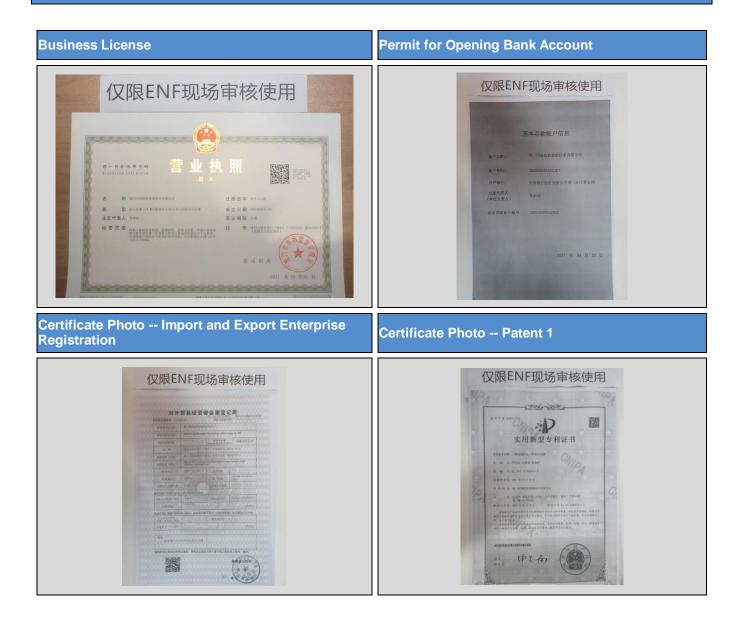
Company Development / Expansion Plans		
Company Development Action	Timeframe	
The company plan to IPO in recent 3-5 years.	2027	





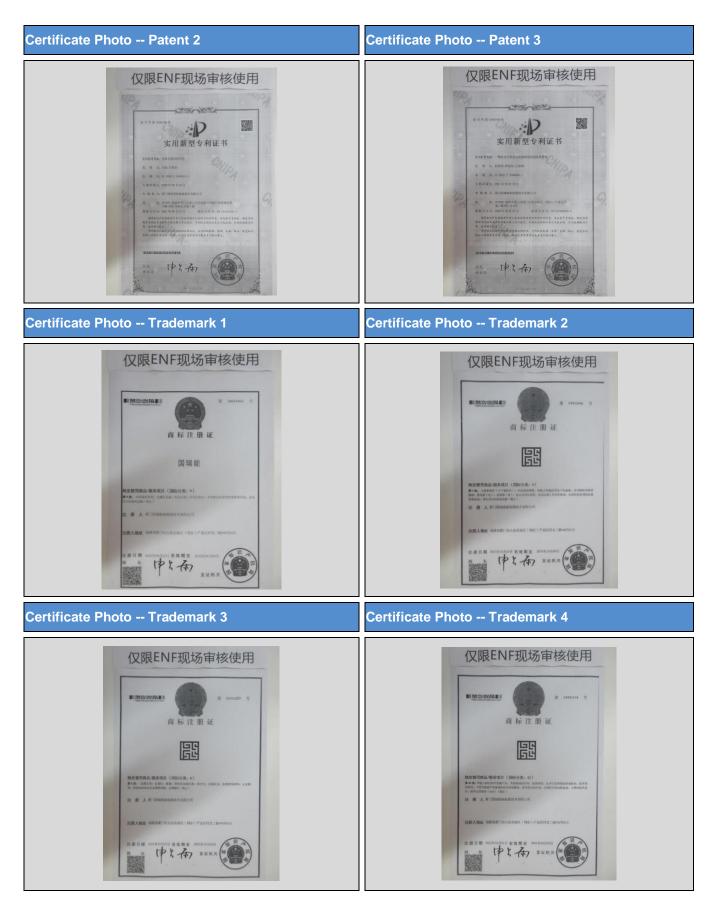
### **Certification & Photos**

#### Certification









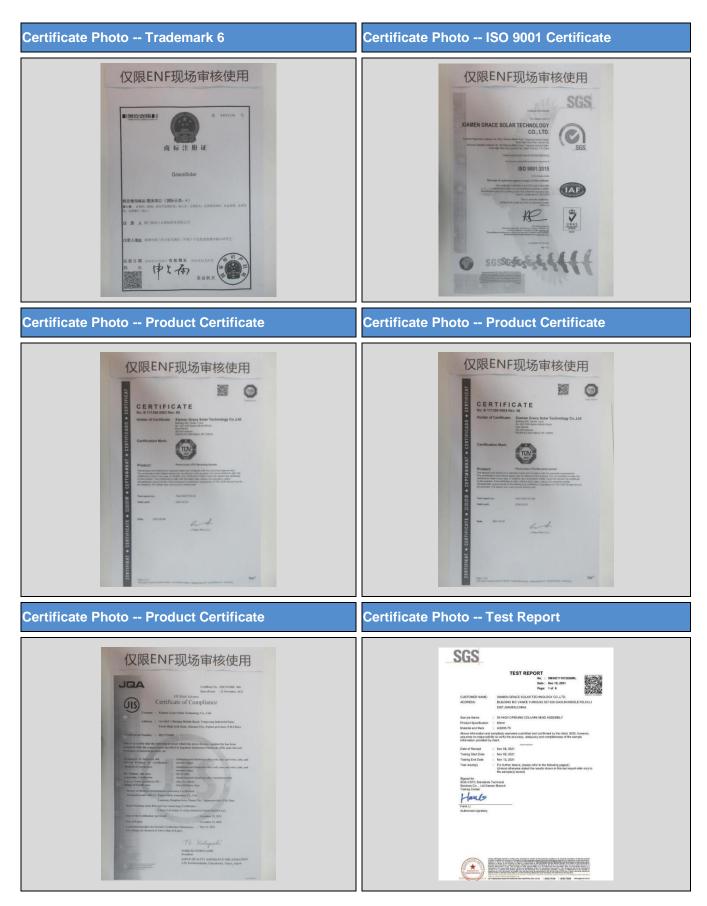








































-- The END --



