Milestones



(a) 1986

Was Founded in Ninghai, Zhejiang



2006

Started PV Module Business



2014

Photon Ranking Top 2



- **2017**
 - "Two New Strategies"
 - Ranked "Top 500 World Famous

 Brand of New Energy"





Started Solar Business



IPO in Shenzhen GEM Stock (300118)



2010

Ranked "Top 3 Global PV Module Manufacturer"

Bloomberg Tier 1 Company



| From Jones | Income | Income

2015

Risen

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2002

1



Global Networks







Capacity





500,000 +



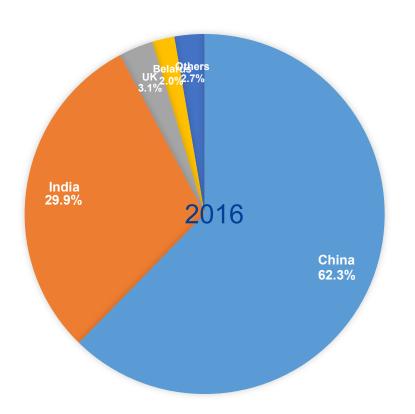
10 billion +

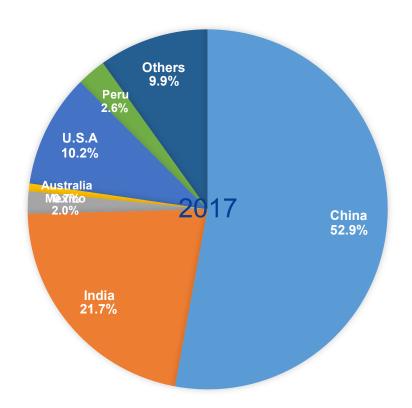


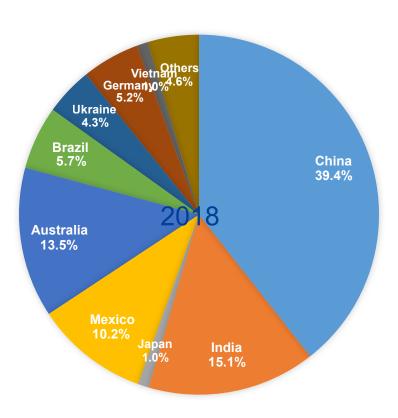
Sales

Global Shipments











Main Business



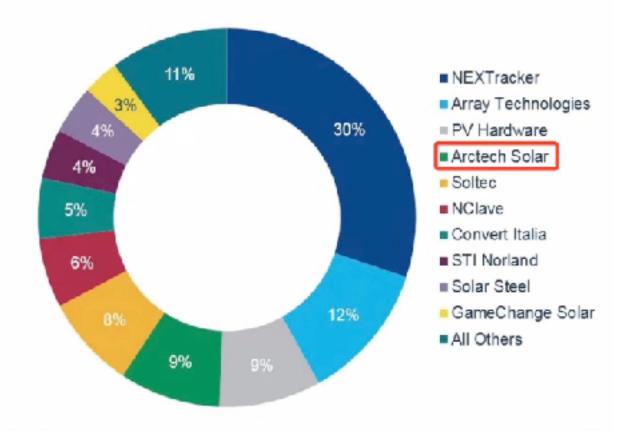
PV Products	PV Power Station(other branch)	Solution Provider(other branch)
Cell, EVA/Back Sheet, Module	Residential, C&I, Utility Scale Station	Energy Storage Solution
Aluminum	Electricity Investment and Development	Smart Micro-grid Solution
Welding Belt	Off Grid Projects	Smart Energy Platform
Junction Box	EPC	PV Power Station Intelligent Solution





Global PV Tracker Market Shares by Shipments for Full-Year 2018 (MWdc)**

Arctech Solar is the NO.1 mounting Tracker supplier in China, and be on the forth place in the global market share by shipments in 2018.



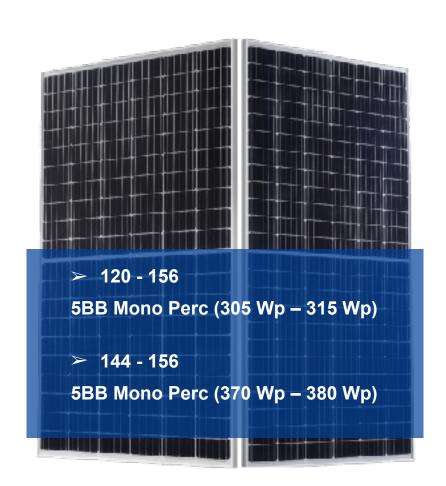
^{**}Vendor market shares are accurately represented, but the pie chart total may exceed 100 percent due to rounding

PV Products — High Performance Mono Perc PV Modules





High Performance Mono Modules



Half-cut Mono Modules

PV Products —— Half-cut PV Modules & Jager Mono Modules





Half-cut Poly Modules



Half-cut Jager Mono Modules

PV Products — Bifacial Double Glass PV Modules



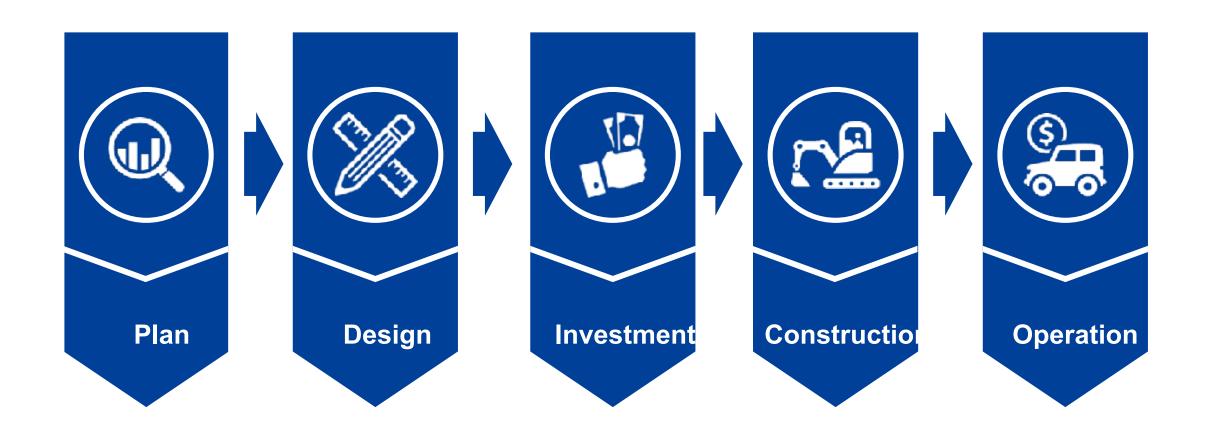


Bifacial Double Glass PV Modules



Bifacial Double Glass PV Modules













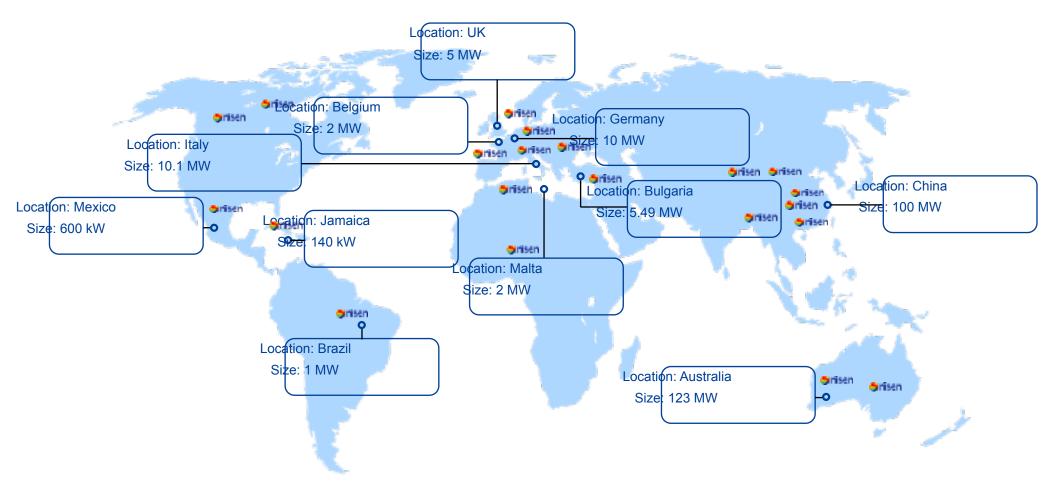












Global Overseas Projects 5000+

Solution Provider —— C&I, Utility Energy Storage Solution

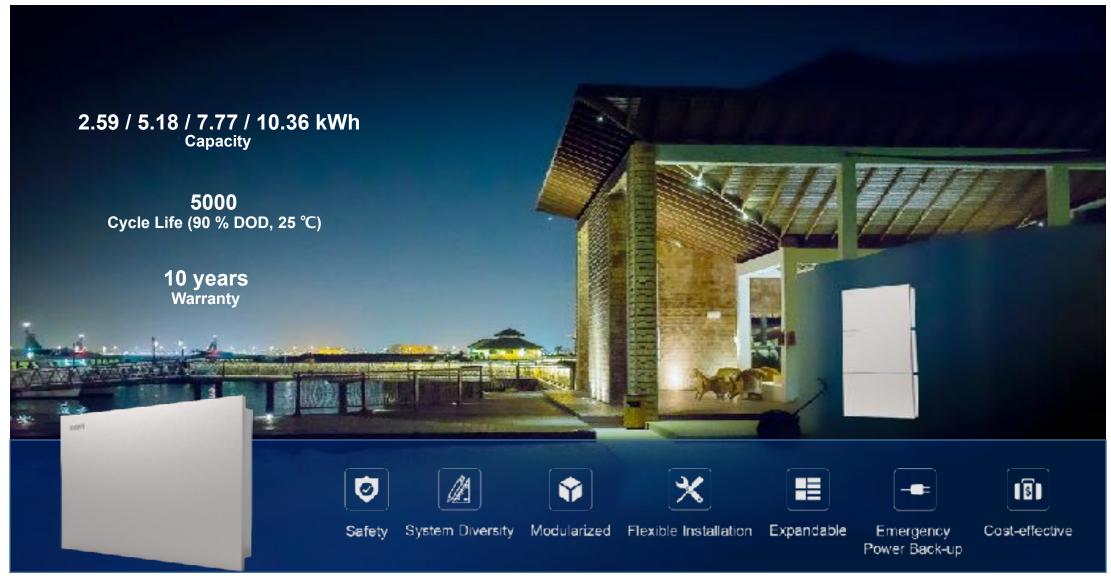


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Solution Provider —— Residential Energy Storage Solution







Reliable Brand



Ranked Tier 1

Table 1: Solar module manufacturers meeting BloombergNEF's tier 1 criteria as of 1Q 2019

Firm' brand	Annual mochile capacity, WW/year	Firmi brand	Annual module capacity MW/year		
Jinko"	10,000	Sumed/ Phono Solar*	2,000		
Canadian Solar*	8,700	Jinneng	2.000		
Riser Energy*	008,8	REC Group*	1,500		
JA Solari	8,500	Waaree	1,900		
Hanwha Q-Cells*	8,000	HT-SAAE*	1,500		
Trina Solar*	8,000	Adani/Mundra*	1.200		
Long!"	7,500	Vikram Solar*	1,100		
GCL'	5,400	ET Solar	1,000		
Talesun	4,900	Neo Solar Power' URE	1,000		
Seraphim*	4,000	Lightway	1,000		
Suntech*	3,900	Boviet*	800		
Henesola	3,500	Hansol Technics	600		
ZNShine*	0.200	S-Energy	530		
First Solar*	2,900	AU Optronics	500		
Chim/Astronorgy*	2,500	Shinsung	300		
LG Electronics*	2,500	Heliener*	250		
BAD.	2,400	Sharp	210		
Eging	2,100	Total	113,490		

Source: BloombergNEF, Methodology <u>here.</u> * denotes module makers for which a technical due diligence report is available from PV Evolution Labs (PVEL, formerly part of DNV GL). Context Tara Doyle-SpireLoom for defeits.

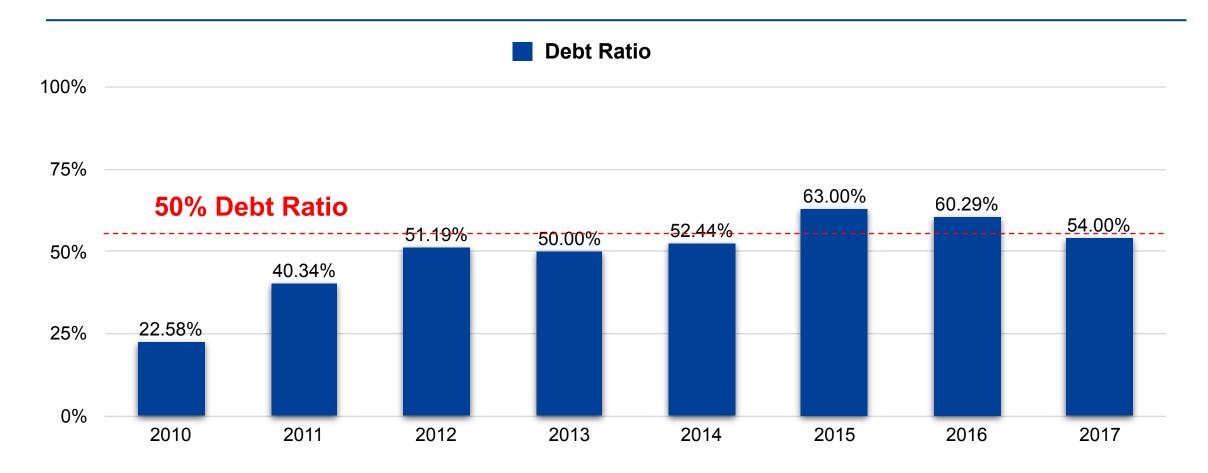
PHOTON Lab's outdoor module tests: Results of 2014 yield measurements													
JOIN FRANK	Masselfactures	Model	Performance ratio (%)	Yes (IWN/KW)	Deviation from test winner (%)	ed Me	Prigin	Production dates"	instelled in	STC power (W)	Module Asea (mr)	field per area (kWh/le?) 3914	5015 rank
1	Sopray tinergy	381190	94.9	1,176.3	-	Vioro	-		1,2013	1908	128	1/5./	1
2	Risen Exergy	SYP190S-M	94.7	175.7	0.22	Viona	ĊΝ		10/2012	1889	1.28	173.5	2
1	Sonalis	SL190*U-36M	94.4	1,173.0	0.45	Mono	ON		8,2012	1966	128	180.2	- 5
4	Surgower	SPR-245NE-VHHT-D	93.9	1,166.4	1.01	Viona	-		1,2012	3452	124	230.7	-
6	Rerusola	JC245AL54/Bw	93.7	1,163.6	1.25	quari-mone			10/2012	1466	163	176.0	8
4	Hanneha Q Cells	Q.PRO G2235	92.6	1,102.2	1.39	Vlulti	A.		11,2012	1369	1.67	164.9	- 4
7	Huarghe Photovoltaic Technology	HF23Q30P	83.0	1,162.0	1.38	Multi	ON		1,2012	1317	1.04	104.2	-
	Surgower	SP9-32/NE-WHT-0	35.5	1,160.8	1.48	Viono			1,2012	1/58	1.63	232.0	-
9	Risen Energy	SYP250M	93.4	1,19.7	1.58	Mono	ON		7/2012	9437	1.63	173.4	- 6
10		ETM680250WW	93.2	1,158.1	1.71	Vioro	ON		12,2012	1489	163	176.8	3
11	Surgover	SPR-300NE-WHT-D	93.1	1,158.3	1.87	Viona			1.0013	1255	1.63	230.9	_
	Jinko Salar	JKM275P-72	97.9	1.154.1	2.05	Multi			4/2012	1755	194	163.9	14

Data Source: Bloomberg

High generation performance and long term use is the key competitive ability of Risen products!

Operation

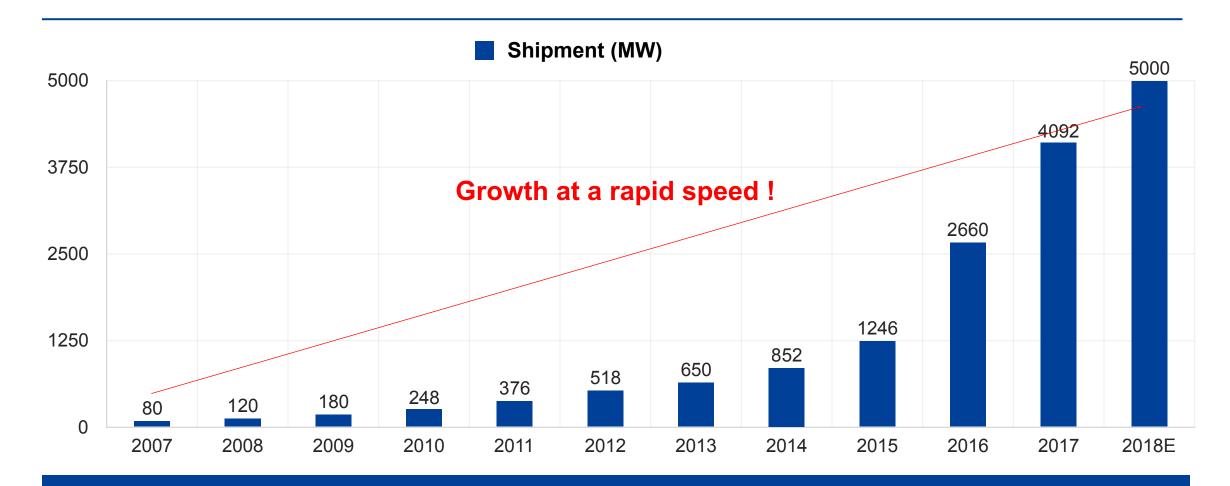




Low debt ratio in PV industry, which is an insurance of return for customers!

Operation

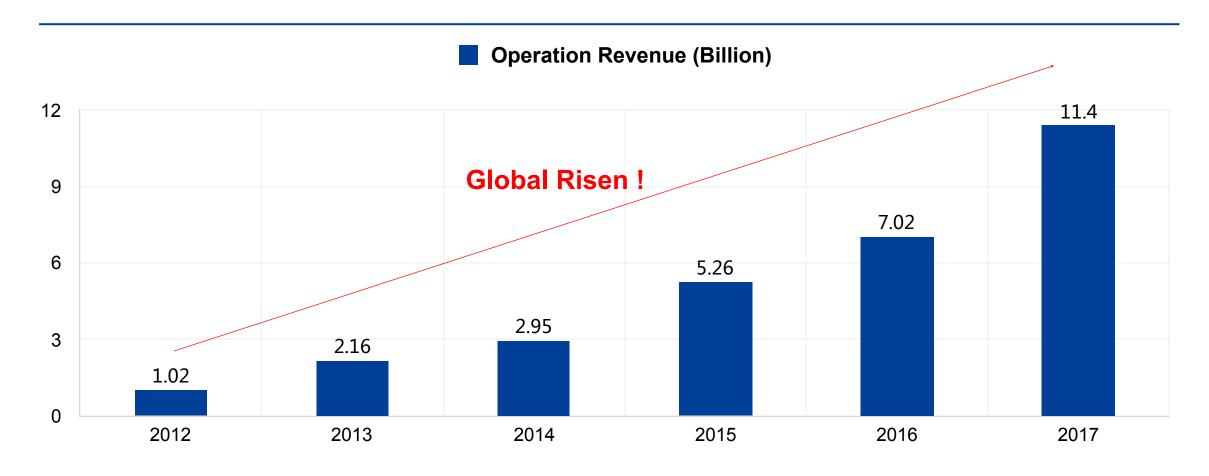




Risen Energy's Global Shipment keeps growing up!

Operation





Risen-A value of 10 billions more, Risen-A brand renowned worldwide, Risen-A future of 100 years beyond!

Quality Control





Supplier Quality Management

- **Annual audit and supervision**
- **Daily assessment**
- **Major abnormal improvement**
- **New Material Introduction and Change Management**



Quality Risk Management

- **Reliability control**
- Standardization and unification
- **System construction**
- **Cross-regional auditing**
- **Quality and performance** management



Product Quality Control

- **Monitor production**
- **Promote quality management**



Global Customer Service

- **Serve customers**
- **Deal with complaints and** complaints
- **Improve customer** relationship
- **Investigate customer** satisfaction
- Feedback customer problems

Quality Control



- Great Quality Guarantee
 Team
- Fast and Active
- Brilliant Thoughts



- World Leading Equipment
- 61 Test Points
- Continuing Update



- Perfect Supply

 Management
- 80% Raw Materials Selfproduced
- **Deep Connections**



- ISO9001 Quality Control
 Standard
- Excellent Performance

 Management
- Unique Integrity System



- **CNAS National Lab**
- IEC61215/61730 Test
- Strict Aging Test



Unique Integrity System = ISO9001 + Excellent Performance Management + Certified Product System

CNAS Certified National Laboratory





Mechanical

Load Test







Destructive Testing







UV Test



Borger Test

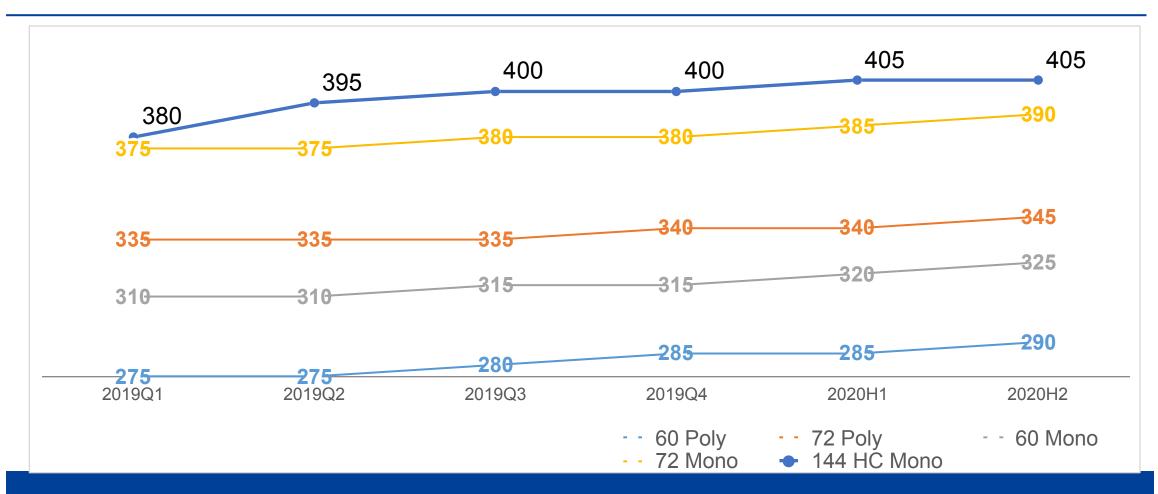


Solar Simulator



Leading Technology





Continue to enhance the conversion efficiency of our solar cells