

Public



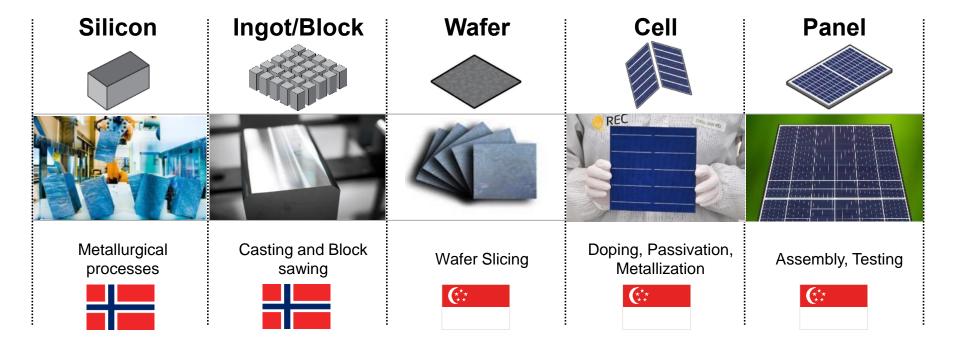


Our Vision:

We want every person to benefit from electricity directly from the sun.

Strength throughout the value chain





- Leading European brand of solar panels
- Founded in Norway in 1996
- Industry pioneer with 22 years of experience
- 34 million panels manufactured, amounting to 8.8 GW (at end-2018)
- Integrated manufacturing from silicon to blocks, wafers, cells, and panels

History of REC



The early days	1996	REC established in Norway		
111e early days		First wafer washed by hand in summer 1997		
Industrialization	1007 2010	 Production of wafers, solar cells, and solar panels in Scandinavia 		
industrialization	1997–2010	(Norway and Sweden)		
		Fully automated and integrated production of wafers, cells, and		
	2010	panels begins at state-of-the-art factory in Singapore		
		Launch of REC Peak Energy Series		
	0040	Split of REC from Renewable Energy Corporation ASA (REC		
	2013	Silicon)		
	2014	Launch of REC Peak Energy 72 Series		
	2015	REC acquired by Norway's Elkem Group (Bluestar Investment Co.		
		Ltd.)		
Growth phase		Launch of REC TwinPeak Series		
	2016	Launch of REC TwinPeak 72 Series		
	2017	Launch of REC TwinPeak 2 Series		
		Launch of REC TwinPeak 2 BLK2 Series		
		Launch of REC TwinPeak 2S 72 Series		
		Launch of REC Peak Energy 2S Mono 50 BLK Series		
		Launch of REC N-Peak Series		
		Launch of REC TwinPeak 2 Mono Series		
		 Launch of REC TwinPeak 2S Mono 72 Series 		

Changing the	2019
game	2013

- Launch of REC N-Peak Black Series
- Launch of REC Alpha Series / REC Alpha Black Series

REC at a glimpse











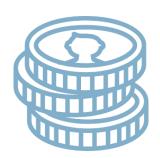
Founded 1996

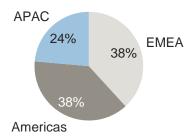
>34 million solar panels produced and sold

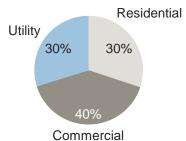
>17M people powered at home

~2,000 employees globally









Norway & Singapore

Manufacturing facilities

~USD 500 million

By geography and market segment 2018 sales revenue

A partnership approach to business



- REC is the most trusted brand in the global solar industry
- Focus on and demonstrated commitment to partnership
- Not only offer high-quality products and services, but also importantly: a reliable and lasting partnership
- This mentality is lived by our four values:
 - We are Responsible
 - We are Experienced
 - We are Collaborative
 - We are Straightforward



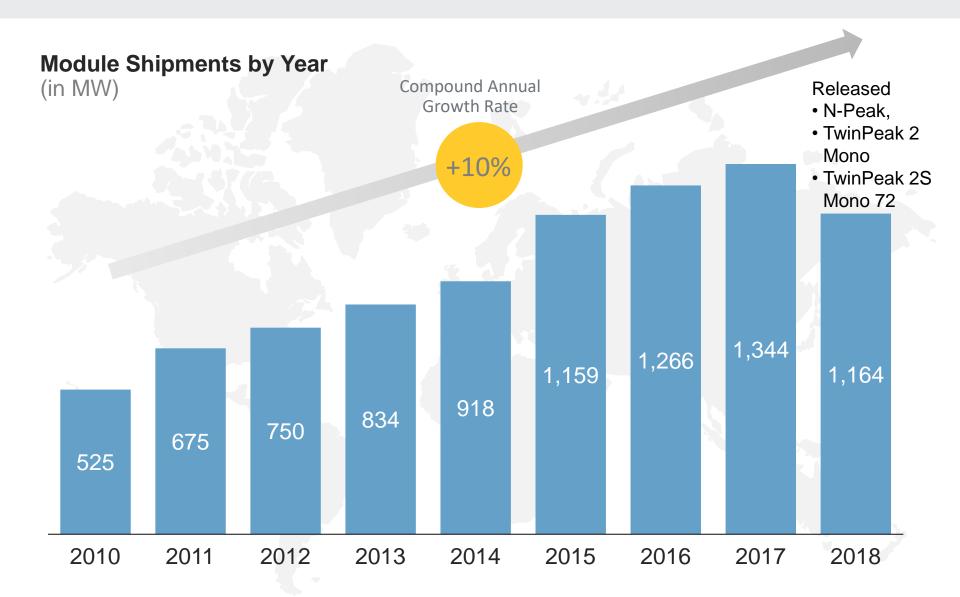
REC – a global company with 2,000 employees





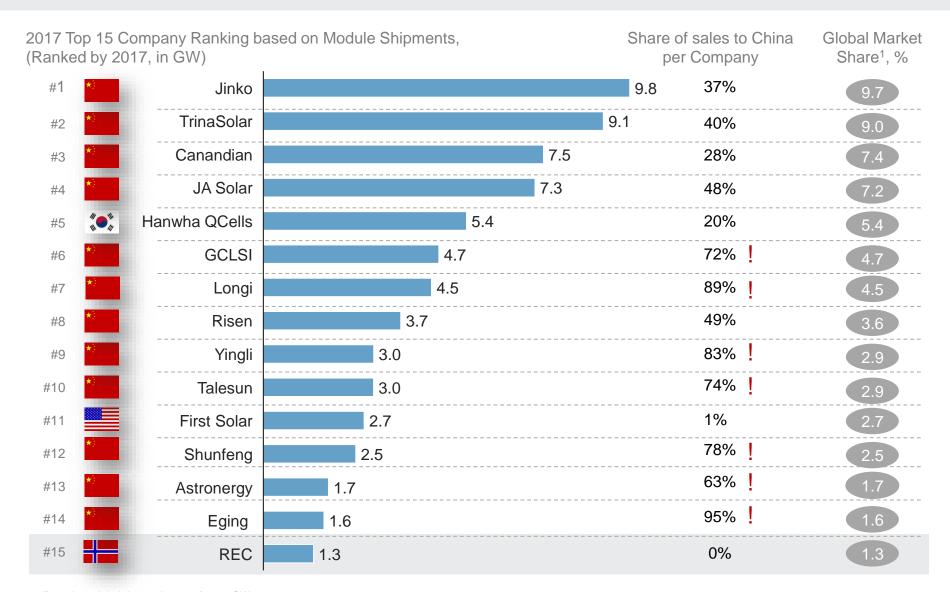
Sustainable, organic growth





The Top 15 module supplier ranking is being dominated by Chinese players, benefitting from a strong domestic demand

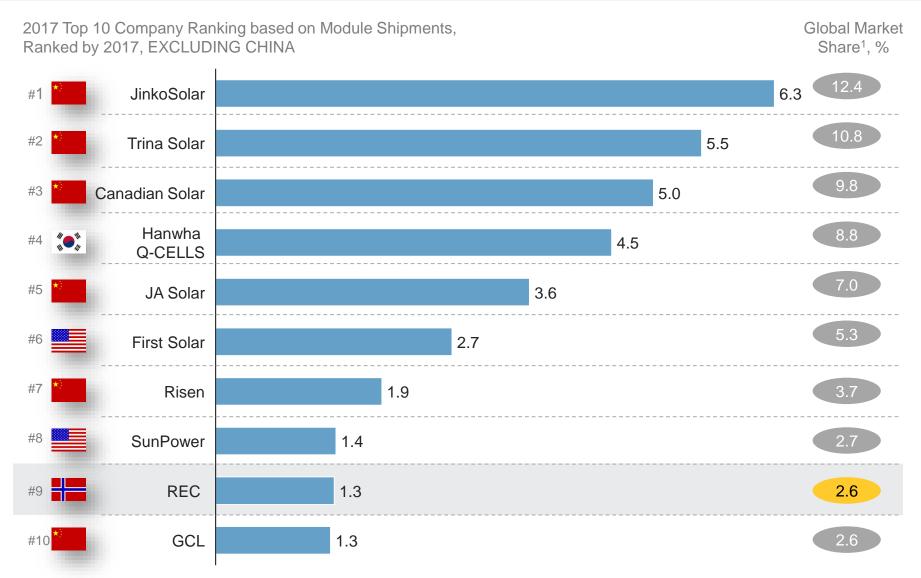




¹ Based on global demand 2017 of 100.9GW Source: SolarMedia Feb. 2018; IHS PV Demand Tracker – Q1 2018

If the Chinese market is excluded, REC remains a Top 10 player with a 2.6% global market share in 2017





¹ Based on global demand 2017 of 50.8 GW due to excluding China Source: SolarMedia Feb. 2018; IHS PV Demand Tracker – Q1 2018

Brands that have gone solar with REC





































REC - The Facts







Over 20 years experience in the solar industry, from silicon to panels



WINNER of THREE AWARDS in 2017

Solar + Power Award in Silicon Module category
 Norwegian Climate Business of the Year
 Made in Singapore Award in Energy & Power category



Part of \$63B FORTUNE global conglomerate







300 Wp (60 cell), 355 Wp (72 cell)



for solar grade silicon

(75% less energy used compared to traditional Siemens method)



100% of production clearing IEC PID protocol



LOWEST DEBT

among leading panel manufacturers





REC's integrated production site in Singapore

Wafer, Cell and Module production in one location



N-type Cell Plant

- Industry 4.0
- 4 cell lines

Wafer Plant

- P-type multi-crystalline
- 2 wafer factories

Cell Plant

- multi/mono
- 8 cell lines

Module Plant

- 6 Module lines
- Highly automated assembly



Winner of multiple awards



REC efforts have been recognized internationally

- DNV GL Top Performer
 - REC TwinPeak and REC TwinPeak 2
- Solar + Power Award
 - REC TwinPeak 2 in "Silicon Module" category
- Made in Singapore Award
 - REC TwinPeak 2 in "Energy & Power" category
- Norwegian Climate Business of the Year
- Intersolar Award
 - REC TwinPeak Series in "Photovoltaics" category
- Singapore 1000 "Net Profit Growth Excellence Award
 - "Manufacturing" category
- IAIR Award
 - "Best Company for Sustainability; Solar Energy Solutions Global"
- Frost and Sullivan Best Practices Award
 - "Global Solar Power Customer Value Enhancement"
- Solar Industry Award
 - "Module Manufacturing Innovation"























REC – A Multiple Award-Winner



REC's industry leadership has been recognized by multiple awards worldwide

- Top Performer Awards by DNV GL for 4 years in a row
- Solar + Power Award for REC TwinPeak 2 Series
- Made in Singapore Award for REC TwinPeak 2 Series
- Norwegian Climate Business of the Year Award for New Silicon Production Methods
- Intersolar Award for REC TwinPeak Series
- Singapore 1000 Net Profit Growth Excellence Award
- IAIR Awards for Corporate Sustainability and Solar Energy Solutions
- Frost and Sullivan Best Practices Award for Customer Value Enhancement
- Solar Industry Award for Module Manufacturing Innovation





















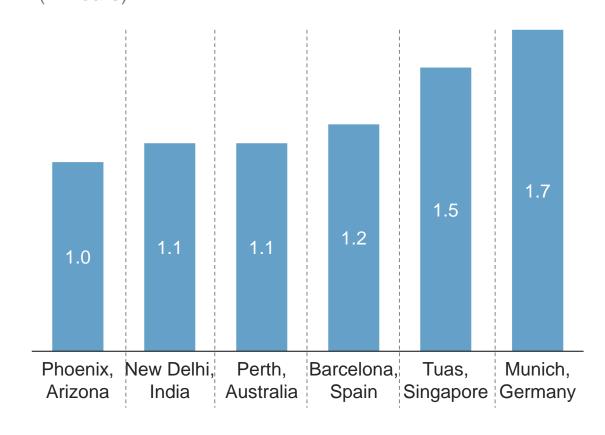


REC achieves an industry-leading energy payback time thanks to its fully integrated solar value chain



- REC focuses on reducing its primary energy usage in its panel production
- Efforts throughout the entire value chain are leading the way in sustainable module production
- REC solar panels achieve an energy payback¹ time of around 1 year, which is class-leading
- As the most energy intensive phase of the entire production process is the silicon production, REC benefits from its REC Solar Norway operations

Energy Payback Time by Location² (in Years)



Recycling contributes to 'green' credentials REC is world leader in recycling through the value chain



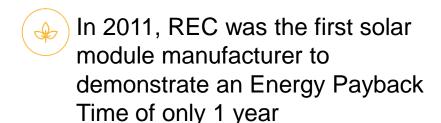
REC has partnered with multinational electronic waste recycling companies to ensure effective solar module recycling systems

In 2018, REC introduced a silicon recovery process that will make it the first in the world to use silicon waste to produce solar grade silicon

• Unique to REC – not replicable in Siemens or FBR processes



REC has a leading carbon footprint
Certified by Certisolis (France)



In 2012, REC was one of the first manufacturers to make a lead-free module commercially available

With its strong environmental credentials and top performance, REC is the number 1 module choice for eco-friendly investors in solar

Manufacturing in both Norway and Singapore provide REC with significant advantages







Reference cases











V V	<u>VV</u>	V
IKEA, Germany	Phenix Power Plant	Redtag (BMA International)
582 kW	24 MW	537 kW
2,476 REC solar panels	100,000 REC solar panels	2,016 REC solar panels
Regensburg & Freiburg, Germany	Canino, Italy	Dubai, UAE















Evans family home	Singapore National Stadium	Tomakomai Rinku Kashiwabara Plant
13.4 kW	707 kW	1.7 MW
61 REC solar panels	2,719 REC solar panels	6,528 REC solar panels
Monterey, CA, USA	Singapore	Tomakomai City, Japan















Caeremlyn Farm Whitland Plant	Audi Production Plant	BMD Solar Power Plant
18 MW	2.3 MW	5.8 MW
69,252 REC solar panels	9,288 REC solar panels	23,200 REC solar panels
Whitland, UK	Brussels, Belgium	Bikaner, India















Sauter family home	Rockville Solar II Project	Nakhon Pathom & Suphan Buri Plants
9.8 kW	3.2 MW	72 MW
42 REC solar panels	12,264 REC solar panels	292,608 REC solar panels
Wain im Allgäu, Germany	Indianapolis, IN, USA	Nakhon Pathom, Thailand















NEXTDC Data Centre	Gibelstadt Power Plant	Heineken Wieckse Brewery
402 kW	28 MW	921 kW
1,575 REC solar panels	120,000 REC solar panels	3,683 REC solar panels
Port Melbourne, Australia	Gibelstadt, Germany	Den Bosch, Netherlands















Dubai International Airport	Kenns Farm	Rio Tinto Stadium
635 kW	100 kW	2 MW
2,592 REC solar panels	400 REC solar panels	6,414 REC solar panels
Dubai, UAE	East Anglia, UK	Sandy, UT, USA







REC's value proposition



