

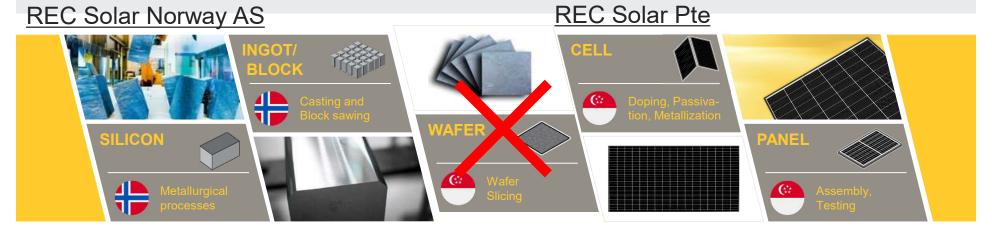
## A global company with 2,000 employees





### Strength throughout the value chain

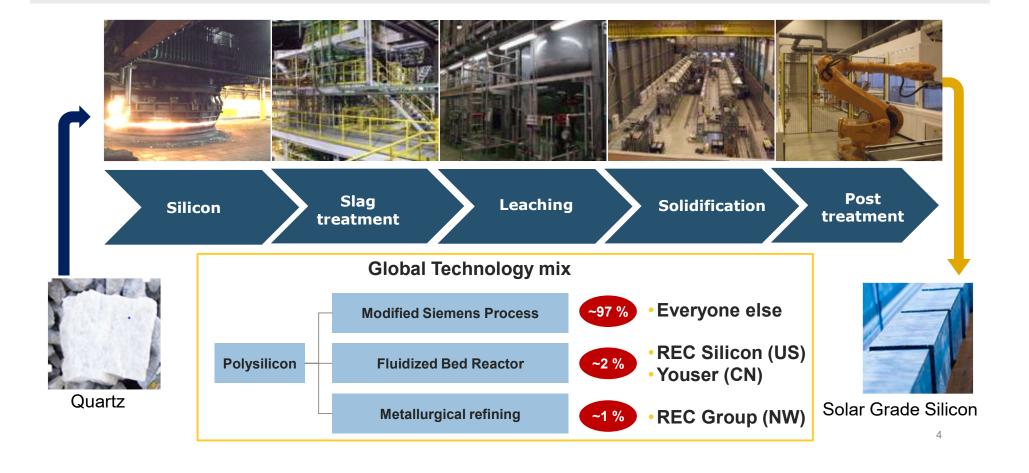




- International, pioneering solar energy company with Scandinavian heritage
- Founded in Norway in 1996
- Industry pioneer with 23 years of experience
- 38 million panels manufactured, amounting to 10 GW (at end 2019)
- Integrated manufacturing from **silicon** to blocks, wafers, cells, and panels

### Unique polysilicon production process

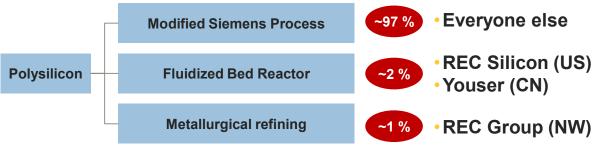


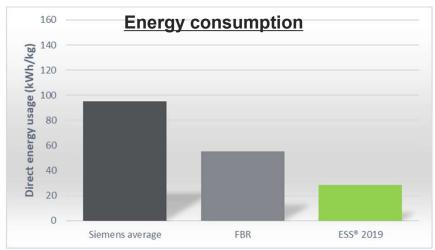


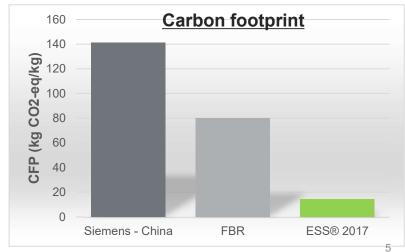
## 70% less energy and 90% lower CFP than Siemens



#### **Global Technology mix**

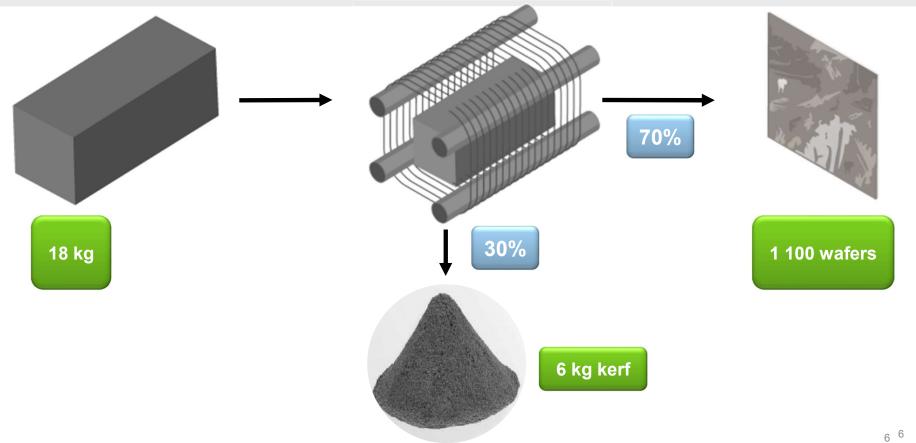






## Next step: Making solar pv industry circular





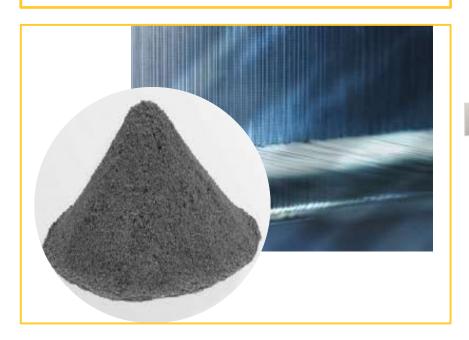
## Production of polysilicon from 100% recycled Si-kerf 🚫 REC



 $\sim$ 30 % = 150 000 tons of all silicon used in solar pv industry is lost as kerf (dust). The last 20 years, many have tried to recycle this waste back to solar without success.

2016: REC Solar Norway succeeded in pilot furnace.

2020: Full scale production based on kerf **2020**: Simultaneously converting to mono





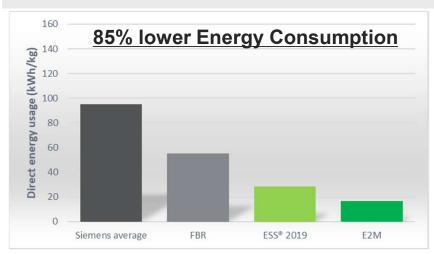
## New process: A big step in making solar industry circular





# New circular process reduces energy consumption and carbon footprint further





	96%	lower C	Carbon Foo	otprint
140	30,0			
120	_			
100				
80	_			
CFP (kg CO2-eq/kg)	_			
5 <sub>40</sub>				
20			100	
0				
	Siemens - China	FBR	ESS® 2017	E2M

Yearly Production in Kristiansand				
Polysilicon, MT	8 400			
CO2-eq using Siemens in China, MT	1 184 400			
CO2-eq using REC production, MT	42 000			

