

In their latest Q2-2018 report, Bloomberg New Energy Finance (BNEF) once again named LONGi Solar in the Tier 1 ranking of photovoltaic PV modules manufacturers.

Bloomberg 3-tier rating system for PV module makers is based on bankability to differentiate the hundreds of solar module manufacturers. Simply put, the European Investment Bank (EIB) considers a project bankable if 3rd party lenders are willing to finance it¹. BNEF ranks Tier 1 manufacturers as those that have provided own-brand, own-manufacture products to six different projects, which have been financed by six different (non-development) banks in the past 2 years. Manufacturers in China, India and Turkey are subject to a more stringent criterion that the project deal must be non-recourse, which means the bank undertakes the risk in the event of PV modules failing. LONGi Solar is ranked 6th, based on annual in-house production capacity.

Table 3: Module manufacturers meeting Bloomberg New Energy Finance's tier 1 criteria as of 2Q 2018

Firm/brand	Annual in-house module capacity (MW/year)	Firm/brand	Annual in-house module capacity (MW/year)
Canadian Solar*	8,110	SunPower*	1,900
Trina Solar*	8,000	BYD*	1,700
Jinko Solar*	8,000	Changzhou Almaden	1,500
Hanwha Q Cells*	8,000	China Sunergy	1,450
JA Solar*	7,000	REC Group*	1,400
Risen	6,600	Adani/ Mundra*	1,200
Longi*	6,500	Akcome	1,000
GCL Systems*	5,400	ET Solar	1,000
Suntech/ Shunfeng*	3,300	Boviet*	700
Seraphim	3,000	Lightway Solar	660
Chint/ Astronergy*	2,500	Tata Solar Power	500
Znshine Solar	2,300	Waaree	500
First Solar*	2,200	Hansol Technics	480
Talesun	2,200	Heliene	250
Renesola	2,000	Sharp	210
Eging	2,000	Shinsung Solar	200
Phono Solar*	2,000	Swelect	110
		Total	93,870

*Source: Bloomberg New Energy Finance. Note: See Methodology [here](#). * denotes module makers for which a technical due diligence report is available from DNV GL. Contact Tara.Doyle@dnvgl.com for details.*

Independent Product Reliability Validation

While BNEF acknowledges that a Tier 1 ranking is not a recommendation, it is characteristic of transparency and good data availability. Moreover, BNEF Tier 1 ranking includes a notation which denotes module makers for which a technical due diligence is available from NV GL. Less than 50% of the 34 the Tier 1 manufacturers have secured this independent validation. LONGi Solar's modules have been validated by DNV GL.

In its fourth annual **PV Module Reliability Scorecard Report 2018**, released on 28th May 2018, DNV GL, the world's largest independent energy experts and certification body, awarded LONGi Solar a "Top Performer" for module reliability. DNV GL awards are based on PV module reliability laboratory test, comprising: thermal cycling (TC600), damp heat (DH2000), dynamic mechanical load (DML) and potential induced degradation (PID). LONGi Solar was awarded "Top Performer" for its mono-crystalline PERC modules in all four tests categories. This is a validation of the advantages of high efficiency, high reliability and high yield of LONGi Solar's mono-crystalline modules, and an endorsement of the advanced technology, equipment, product testing and R&D capabilities of the company.

Vertically Integrated, Financially Strong

LONGi Solar is established in 2000 in Xi'an, China and today it has operations worldwide. The company is fully integrated within the PV Solar value chain, from ingot casting to wafer, cells and module production to downstream energy services. It is listed in the Shanghai Stock Exchange and its stock is a component of the Worldwide MCSI Stock index.