

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

Firm/ brand	Annual module capacity, MW/year	Firm/ brand	Annual module capacity, MW/year
Jinko*	10,000	Sumec/ Phono Solar*	2,000
Canadian Solar*	8,700	Jinneng	2,000
Risen Energy*	8,600	REC Group*	1,500
JA Solar*	8,500	Waaree	1,500
Hanwha Q-Cells*	8,000	HT-SAAE*	1,500
Trina Solar*	8,000	Adani/Mundra*	1,200
Longi*	7,500	Vikram Solar*	1,100
GCL*	5,400	ET Solar	1,000
Talesun	4,800	Neo Solar Power/ URE	1,000
Seraphim*	4,000	Lightway	1,000
Suntech*	3,900	Boviet*	800
Renesola	3,500	Hansol Technics	600
ZNShine*	3,200	S-Energy	530
First Solar*	2,900	AU Optronics	500
Chint/Astronergy*	2,500	Shinsung	300
LG Electronics*	2,500	Heliene*	250
BYD*	2,400	Sharp	210
Eging	2,100	Total	113,490

Source: BloombergNEF. Methodology [here](#). * denotes module makers for which a technical due diligence report is available from PV Evolution Labs (PVEL, formerly part of DNV GL). Contact Tara.Doyle@pvel.com for details.