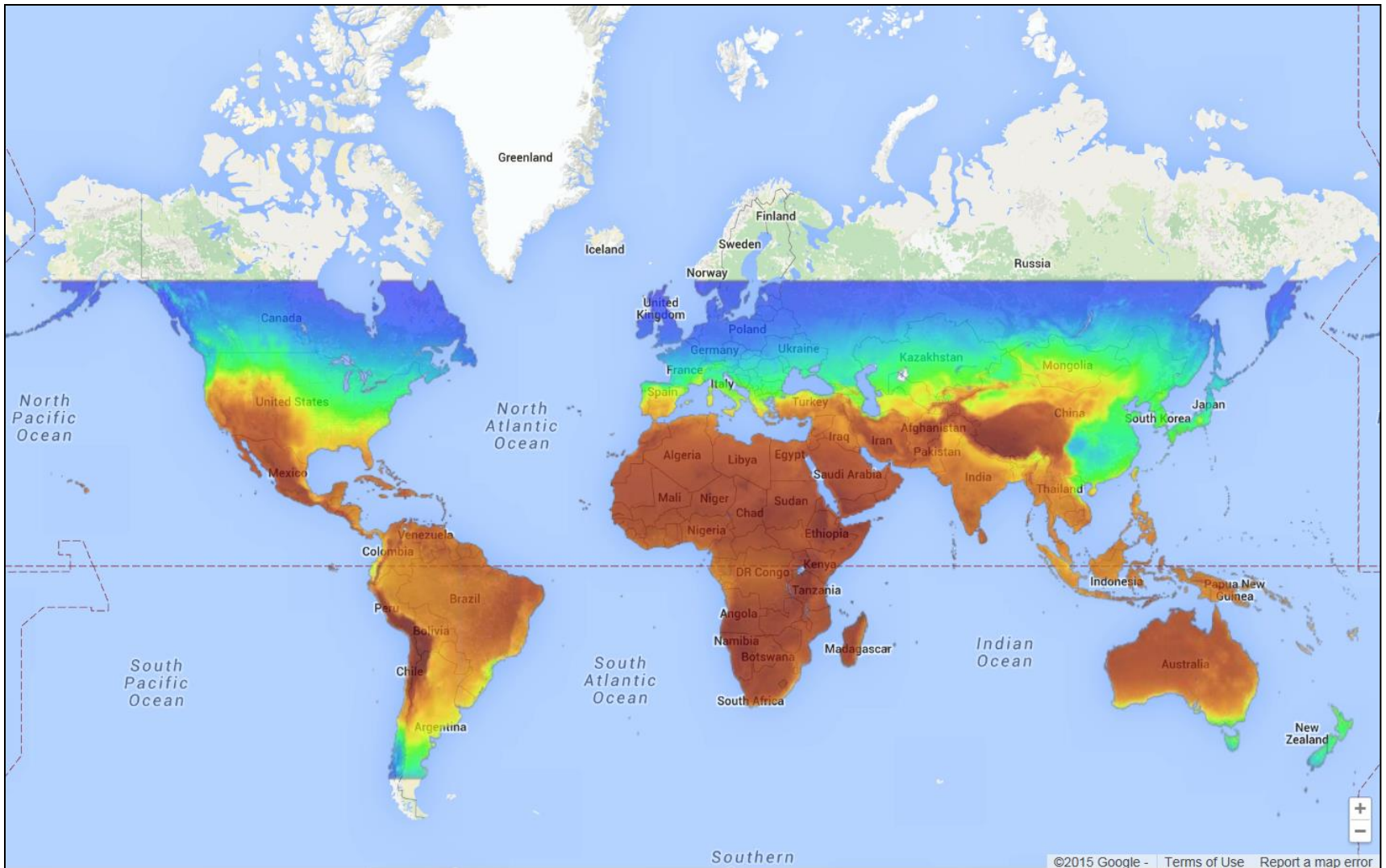
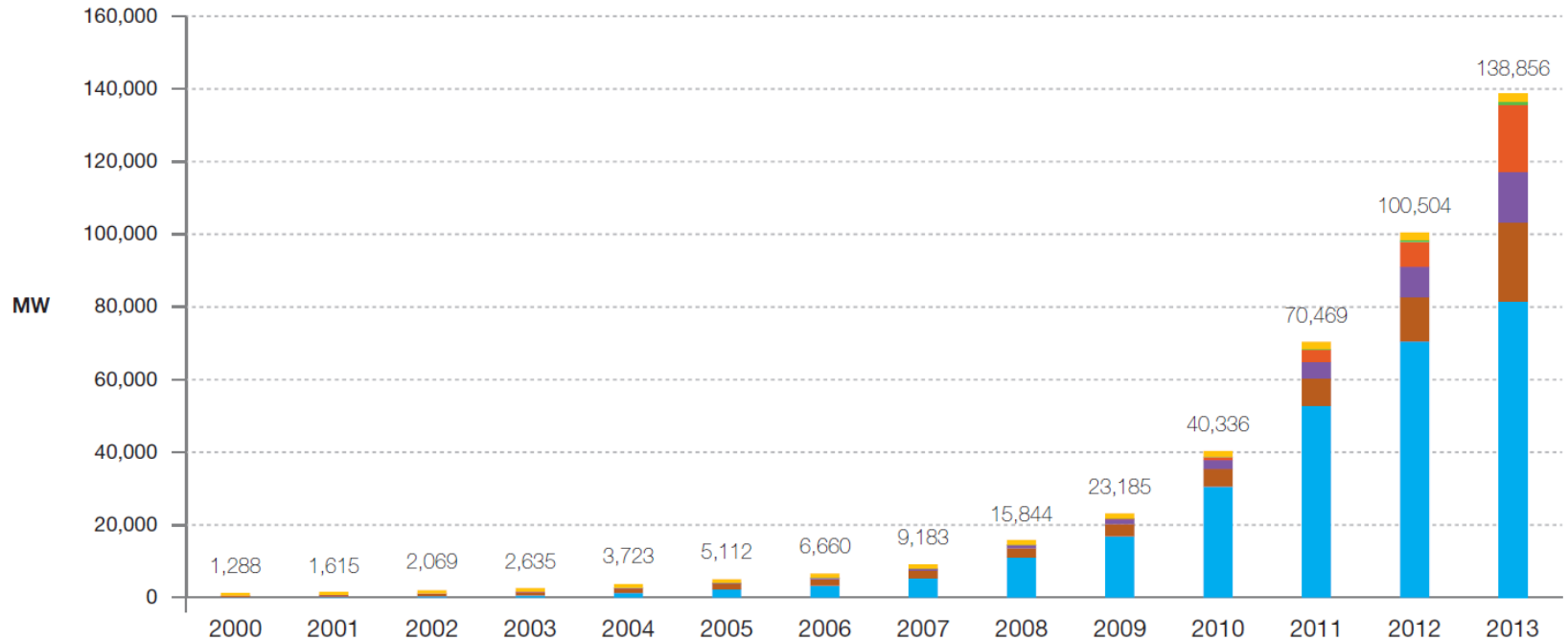


# Africa possesses huge potential for solar power ...



Source: Google. 2015.

# ... yet installed solar capacity ranks last!

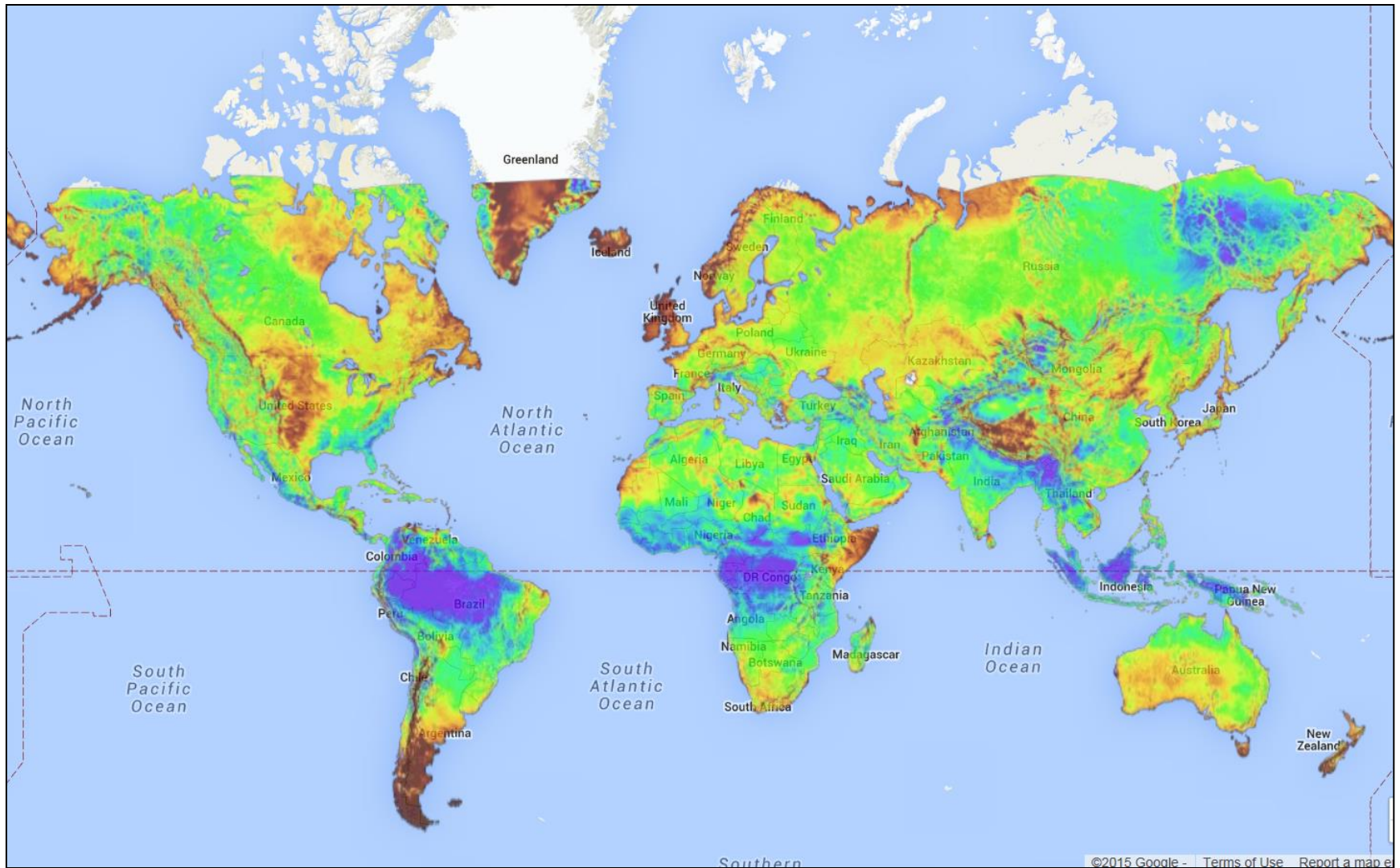


RoW	751	807	887	964	993	1,003	1,108	1,150	1,226	1,306	1,590	2,098	2,098	2,098
MEA	n/a	n/a	n/a	n/a	1	1	1	2	3	25	80	205	570	953
China	19	24	42	52	62	70	80	100	140	300	800	3,300	6,800	18,600
Americas	21	24	54	102	163	246	355	522	828	1,328	2,410	4,590	8,365	13,727
APAC	368	496	686	916	1,198	1,502	1,827	2,098	2,628	3,373	4,951	7,513	12,159	21,992
Europe	129	265	399	601	1,306	2,291	3,289	5,312	11,020	16,854	30,505	52,764	70,513	81,488
<b>Total</b>	<b>1,288</b>	<b>1,615</b>	<b>2,069</b>	<b>2,635</b>	<b>3,723</b>	<b>5,112</b>	<b>6,660</b>	<b>9,183</b>	<b>15,844</b>	<b>23,185</b>	<b>40,336</b>	<b>70,469</b>	<b>100,504</b>	<b>138,856</b>

Source:

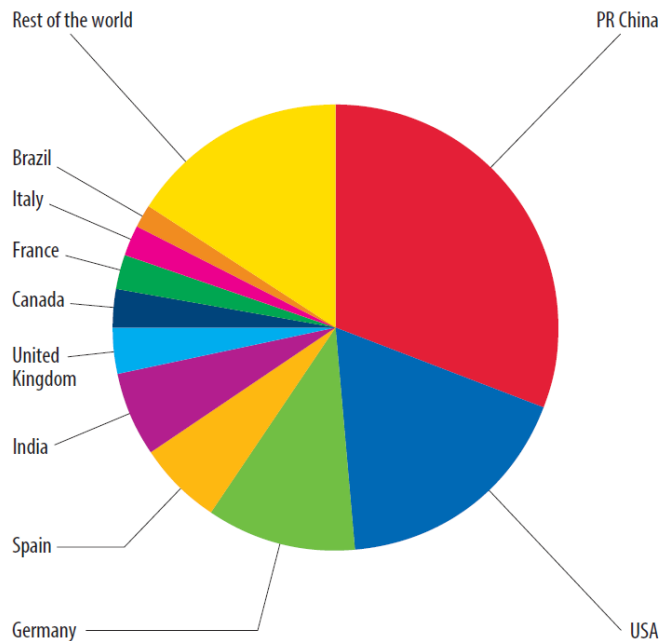
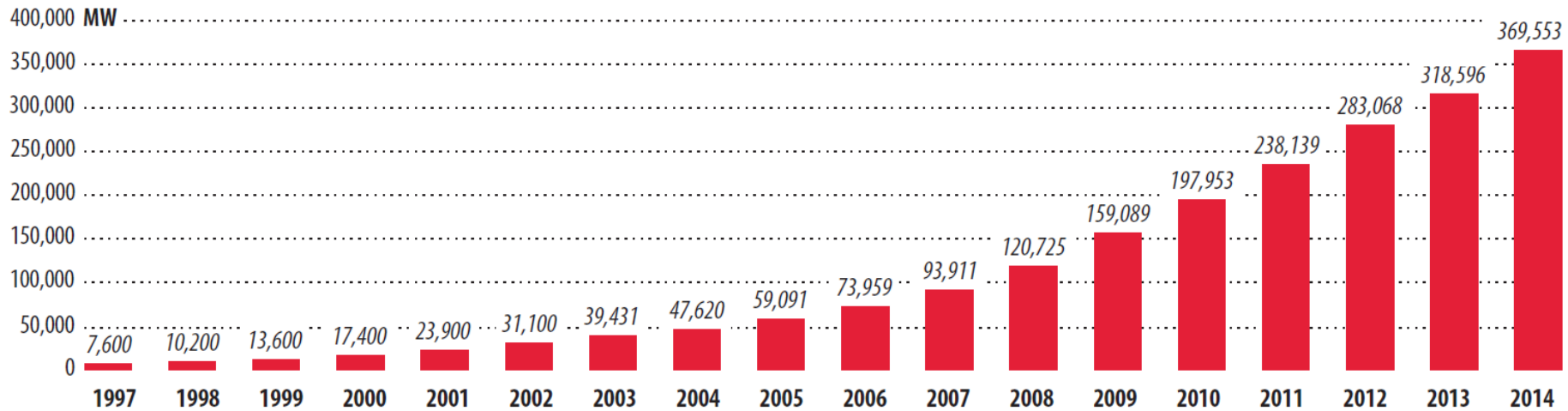
Masson, G., S. Orlandi, and M. Reking. 2014. Global Market Outlook for Photovoltaics 2014–2018. European Photovoltaic Industry Association (EPIA), European Commission.

# Potential for wind power is modest ...



Source: Google. 2015.

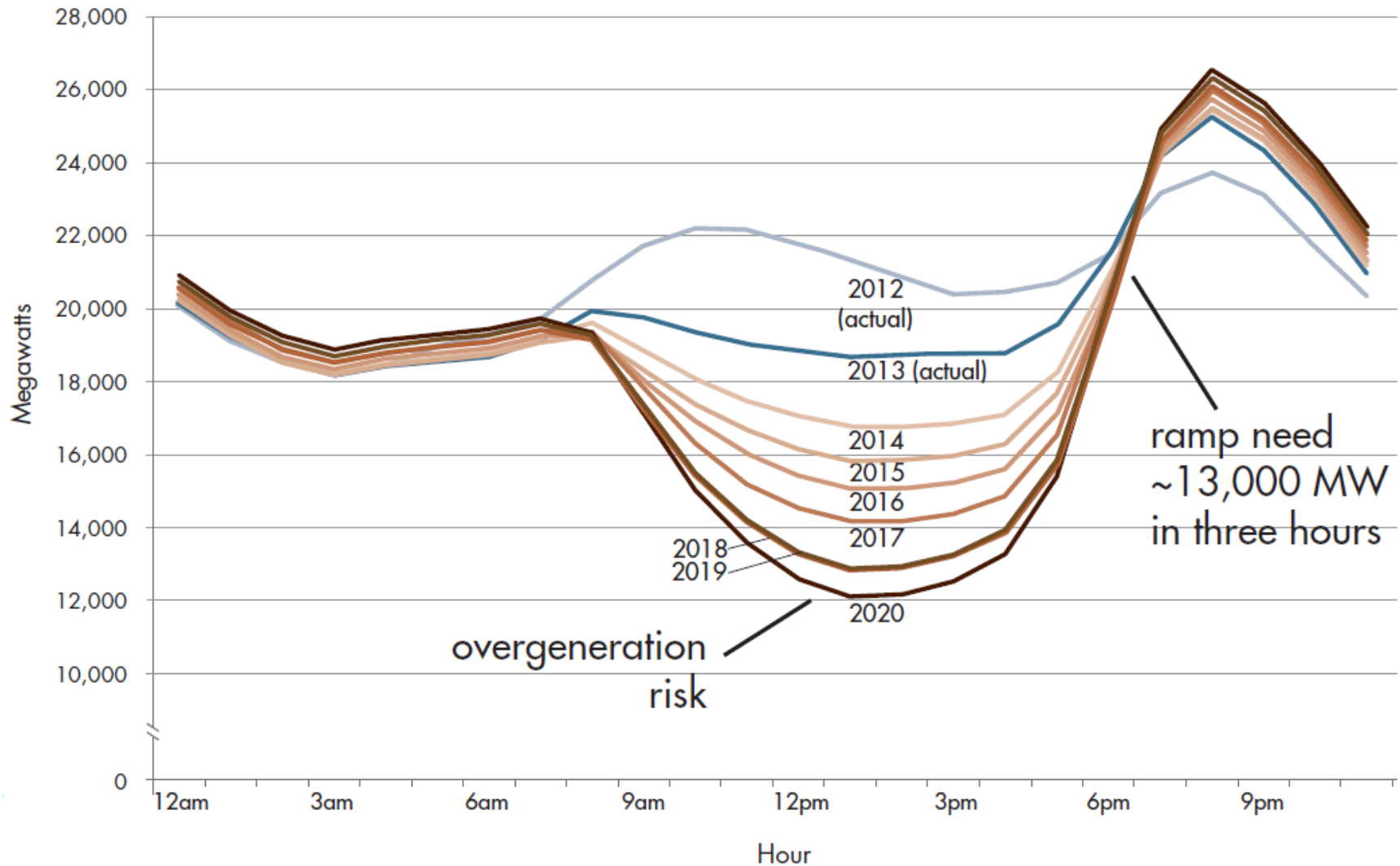
# ... and no African country in top 10 producers!



Country	MW	% SHARE
PR China*	114,763	31.0
USA	65,879	17.8
Germany	39,165	10.6
Spain	22,987	6.2
India	22,465	6.1
United Kingdom	12,440	3.4
Canada	9,694	2.6
France	9,285	2.5
Italy	8,663	2.3
Brazil**	5,939	1.6
Rest of the world	58,275	15.8
<b>Total TOP 10</b>	<b>311,279</b>	<b>84.2</b>
<b>World Total</b>	<b>369,553</b>	<b>100</b>

Source: GWEC. 2015. Global Wind Statistics 2014. Global Wind Energy Council.

# Solar Creates Need for Ramping and Frequency Control



Source:

California ISO. What the Duck Curve Tells Us About Managing a Green Grid. California Independent System Operator. October 2013.