

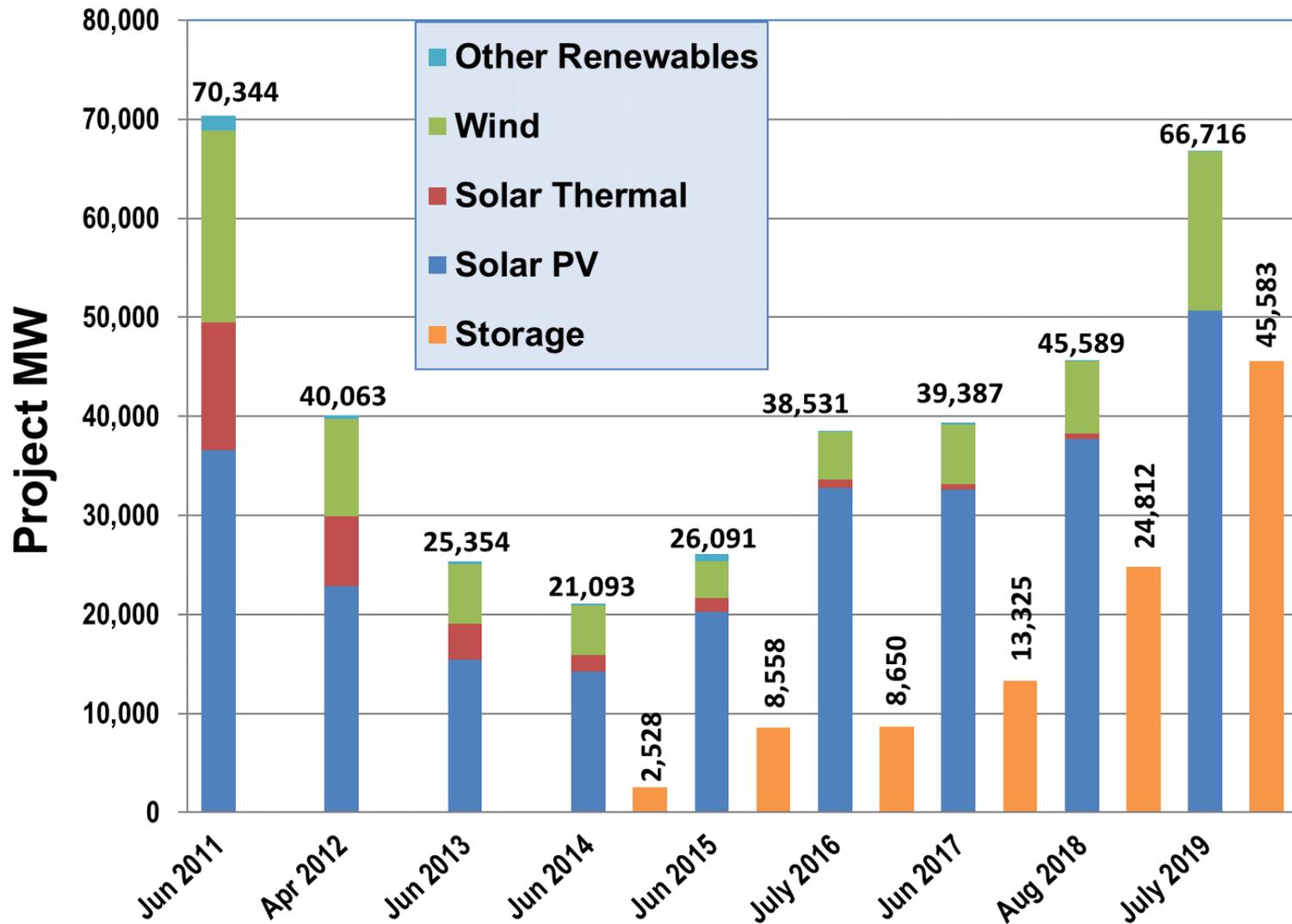


Briefing on renewable and energy storage projects in the ISO generator interconnection queue

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Renewable and energy storage capacity in ISO queue



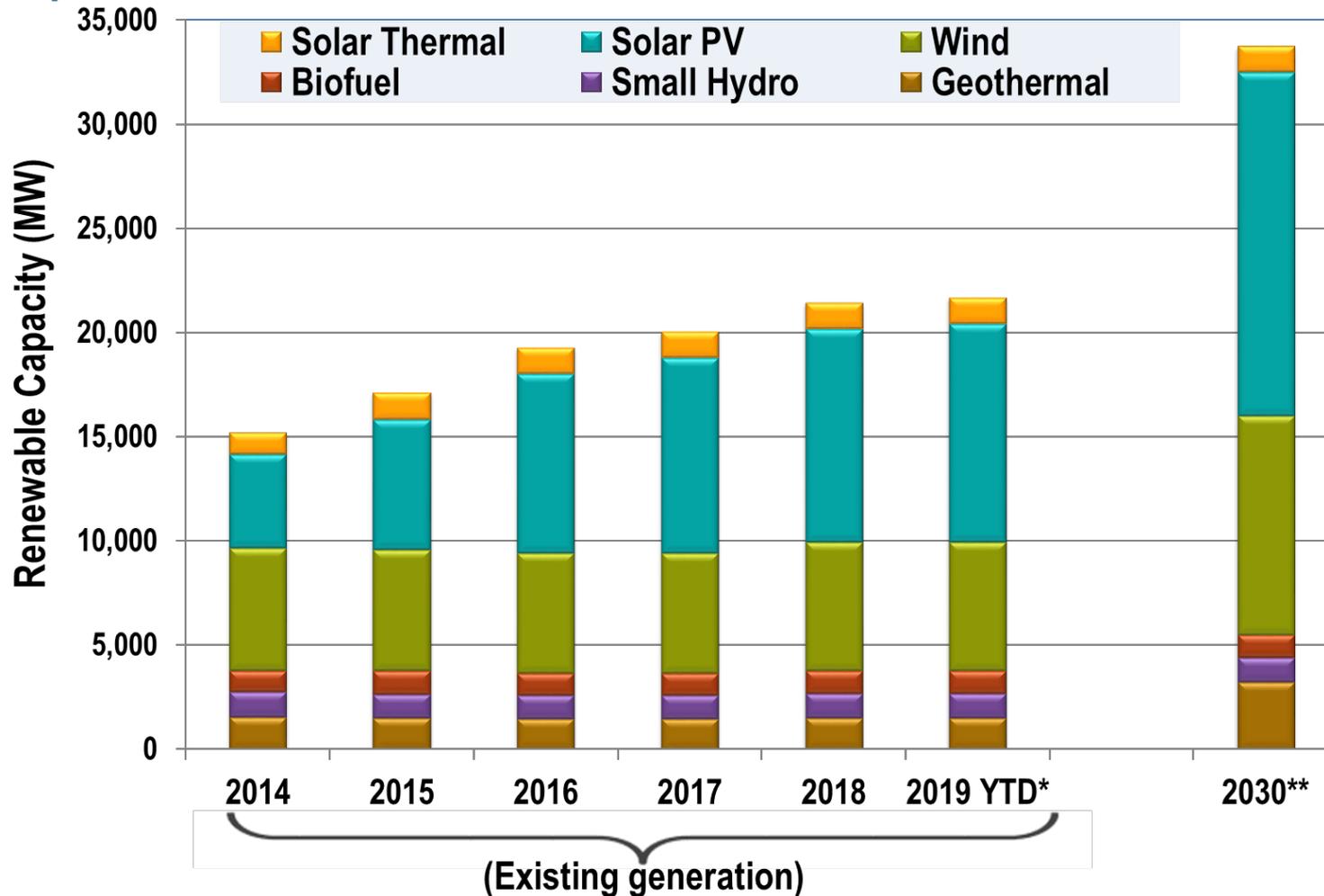
Queue statistics

- 66,716 MW renewable energy projects
 - 41% MW have completed the study process
 - 59% MW are being studied

- 45,583 MW of energy storage projects
 - 44,539 MW battery
 - 1,000 MW pumped storage
 - 44 MW other

- New cluster 12
 - 136 projects
 - 32,168 MW, renewable
 - 29,756 MW energy storage
 - 18,343 MW combined with renewable project
 - 11,413 MW stand-alone energy storage

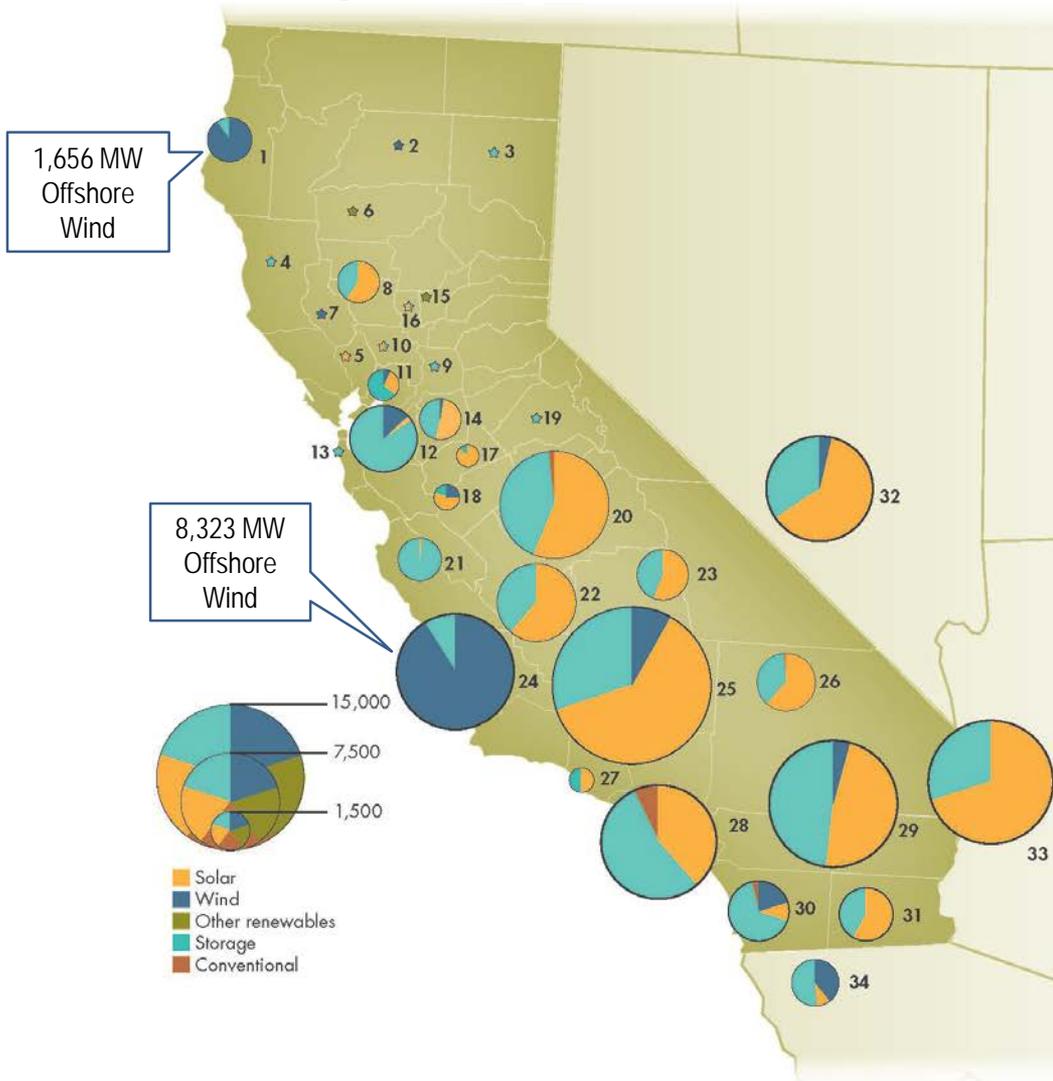
Current and projected renewable generation capacity in operation within the ISO



* All online resources that are not in test mode, including those yet to achieve full commercial operation.

** Estimate of renewable capacity build-out to meet the 2030 60% RPS requirement (based on CPUC Base Case Portfolio from the Revised 2019 Unified Resource Adequacy and Integrated Resource Plan)

Queue Map – Conventional & Renewables



Interconnection queue by county

County	# of Projects	Megawatts			Total
		Renewables	Storage	Conventional	
1 Humboldt	6	1910	201		2,110
2 Shasta	1	200			200
3 Lassen	2	21	27		48
4 Mendocino	1		31		31
5 Napa	1	30			30
6 Tehama	2	6			6
7 Lake	3	145	39		184
8 Colusa	9	1,198	825		2,023
9 Sacramento	1		59		59
10 Yolo	2	12	12		24
11 Solano	5	454	821		1,275
12 Alameda-Contra Costa-Santa Clara	24	634	3,510		4,144
13 San Francisco	1		250		250
14 San Joaquin	14	994	862		1,857
15 Yuba	1	6			6
16 Sutter	2	100	100		200
17 Stanislaus	7	657	108		765
18 Merced	12	833	200		1,033
19 Tuolumne	1		10		10
20 Fresno-Madera	45	4,734	3,562	123	8,419
21 San Benito-Monterey	6	30	1,867		1,898
22 Kings	24	3,443	2,176		5,619
23 Tulare-Inyo	13	1,285	1,014		2,299
24 San Luis Obispo	11	8,994	856		9,850
25 Kern	81	11,633	5,022		16,655
26 San Bernardino	24	2,035	1,232	38	3,306
27 Ventura	2	500	500		1,000
28 Los Angeles-Orange	28	3,893	5,469	700	10,062
29 Riverside	38	6,223	5,761		11,984
30 San Diego	35	1,233	2,709	141	4,082
31 Imperial	13	1,837	1,337		3,175
In-state Totals	415	53,041	38,560	1,002	92,604
32 Nevada	28	5,235	2,738		7,973
33 Arizona	24	7,383	3,157		10,540
34 Mexico	6	1,057	1,128		2,185
Out-of-state Totals	58	13,675	7,023		20,698
TOTAL ALL PROJECTS	473	66,716	45,583	1,002	113,301