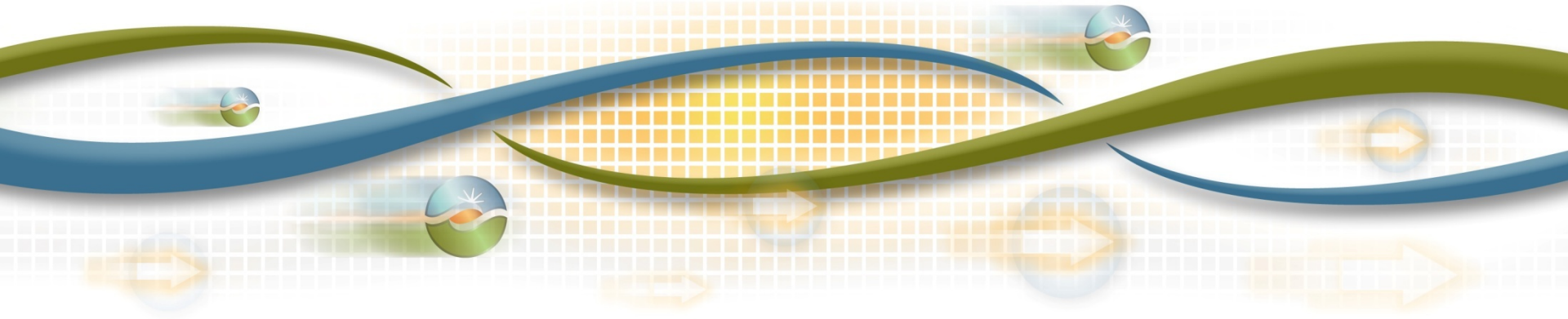


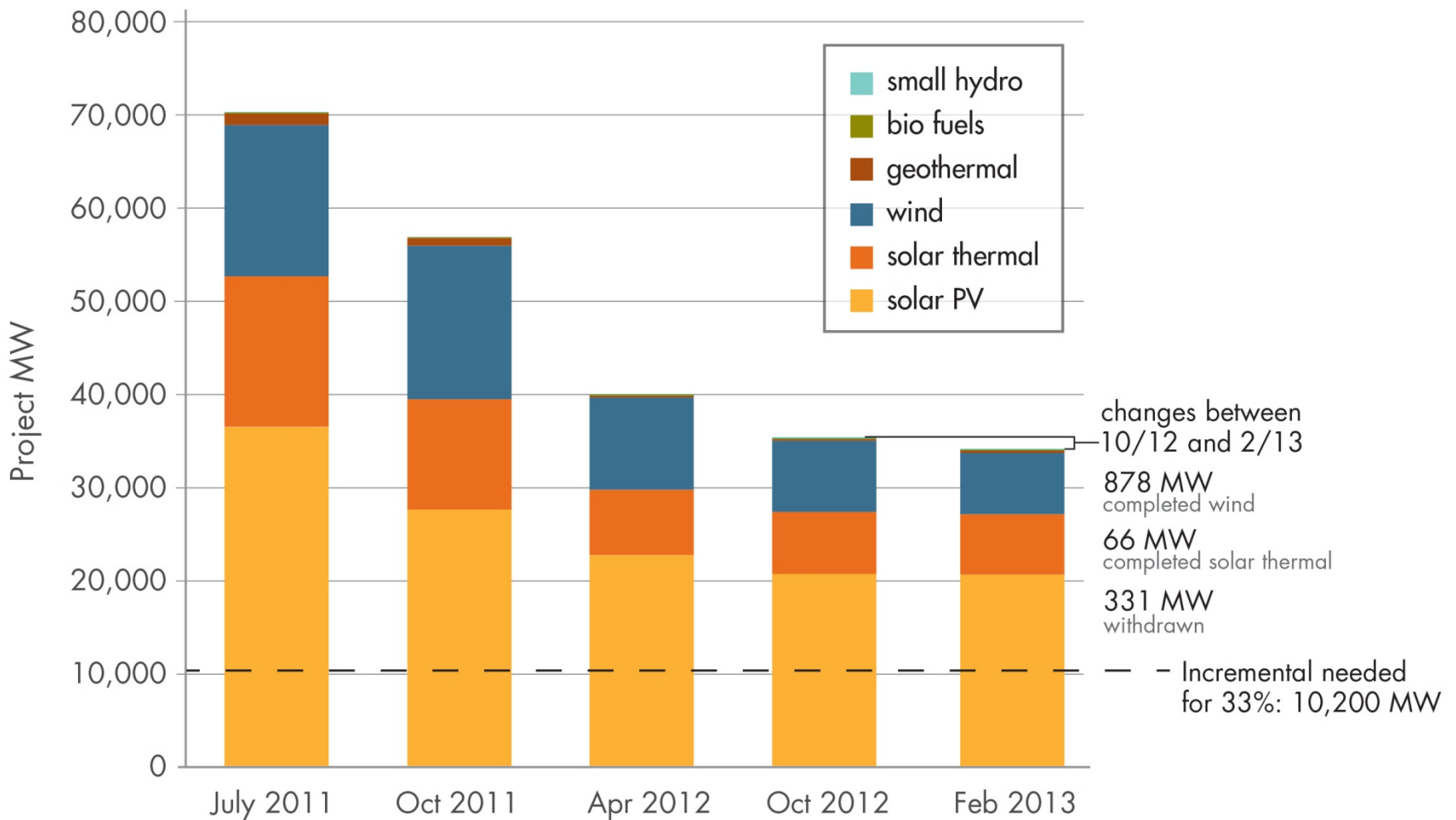
# Briefing on Renewable Generation in the ISO Generator Interconnection Queue, and downsizing process status

Bob Emmert  
Manager, Interconnection Resources

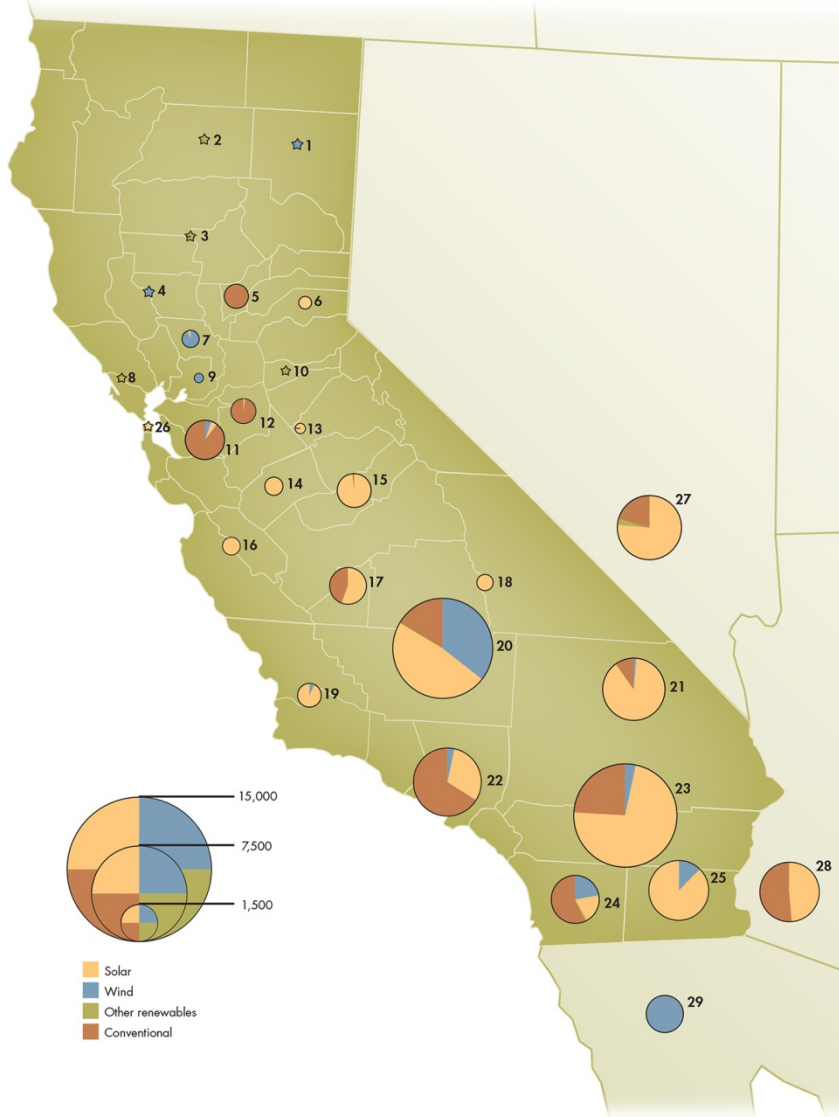
Board of Governors Meeting  
General Session  
March 20-21, 2013



# Change in renewable capacity in the ISO queue (since July 2011 and by technology type)



# ISO Queue Map

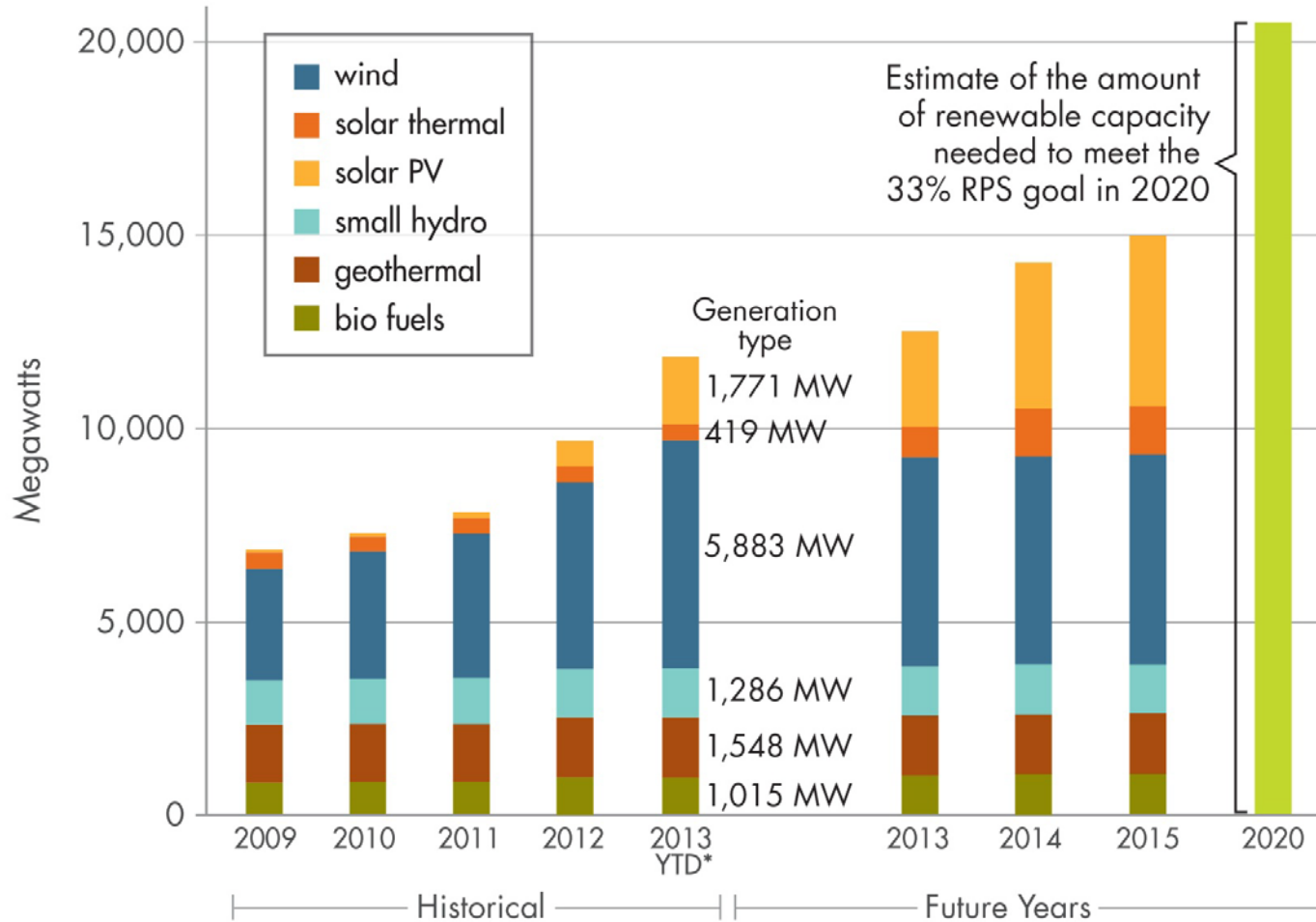


## Interconnection queue by county

County	# of Projects	Megawatts		
		Renewables	Conventional	Total
<b>1</b> Lassen	2	71		71
<b>2</b> Shasta	1	27		27
<b>3</b> Butte, Glenn, Tehama	3	10		10
<b>4</b> Lake, Colusa	1	66		66
<b>5</b> Sutter, Yuba	2		910	910
<b>6</b> Placer	1	220		220
<b>7</b> Yolo	3	533		533
<b>8</b> Marin, Sonoma	3	92		92
<b>9</b> Solano	2	330		330
<b>10</b> Amador	1	18		18
<b>11</b> Alameda, Contra Costa, Santa Clara	13	193	1,698	1,891
<b>12</b> San Joaquin	5	20	875	895
<b>13</b> Stanislaus, Tuolumne	4	127	0	127
<b>14</b> Merced	5	462	49	511
<b>15</b> Fresno, Madera	40	1,538	15	1,553
<b>16</b> Monterey, San Benito	2	520		520
<b>17</b> Kings	24	824	649	1,473
<b>18</b> Tulare, Inyo	7	190		190
<b>19</b> San Luis Obispo, Santa Barbara	6	896		896
<b>20</b> Kern	60	7,555	1,447	9,002
<b>21</b> San Bernardino	18	3,649	402	4,051
<b>22</b> Los Angeles, Orange	37	1,897	3,576	5,473
<b>23</b> Riverside	25	6,157	1,920	8,077
<b>24</b> San Diego	21	812	1,028	1,840
<b>25</b> Imperial	13	2,314		2,314
<b>26</b> San Francisco	1	20		20
<b>In-state Totals</b>	<b>297</b>	<b>28,541</b>	<b>12,569</b>	<b>41,110</b>
<b>27</b> Nevada	23	3,447	950	4,397
<b>28</b> Arizona, New Mexico	4	1,190	1,250	2,440
<b>29</b> Mexico	3	1,120		1,120
<b>Out-of-state Totals</b>	<b>30</b>	<b>5,757</b>	<b>2,200</b>	<b>7,957</b>
<b>TOTAL ALL PROJECTS</b>	<b>327</b>	<b>34,298</b>	<b>14,769</b>	<b>49,067</b>

as of February 15, 2013

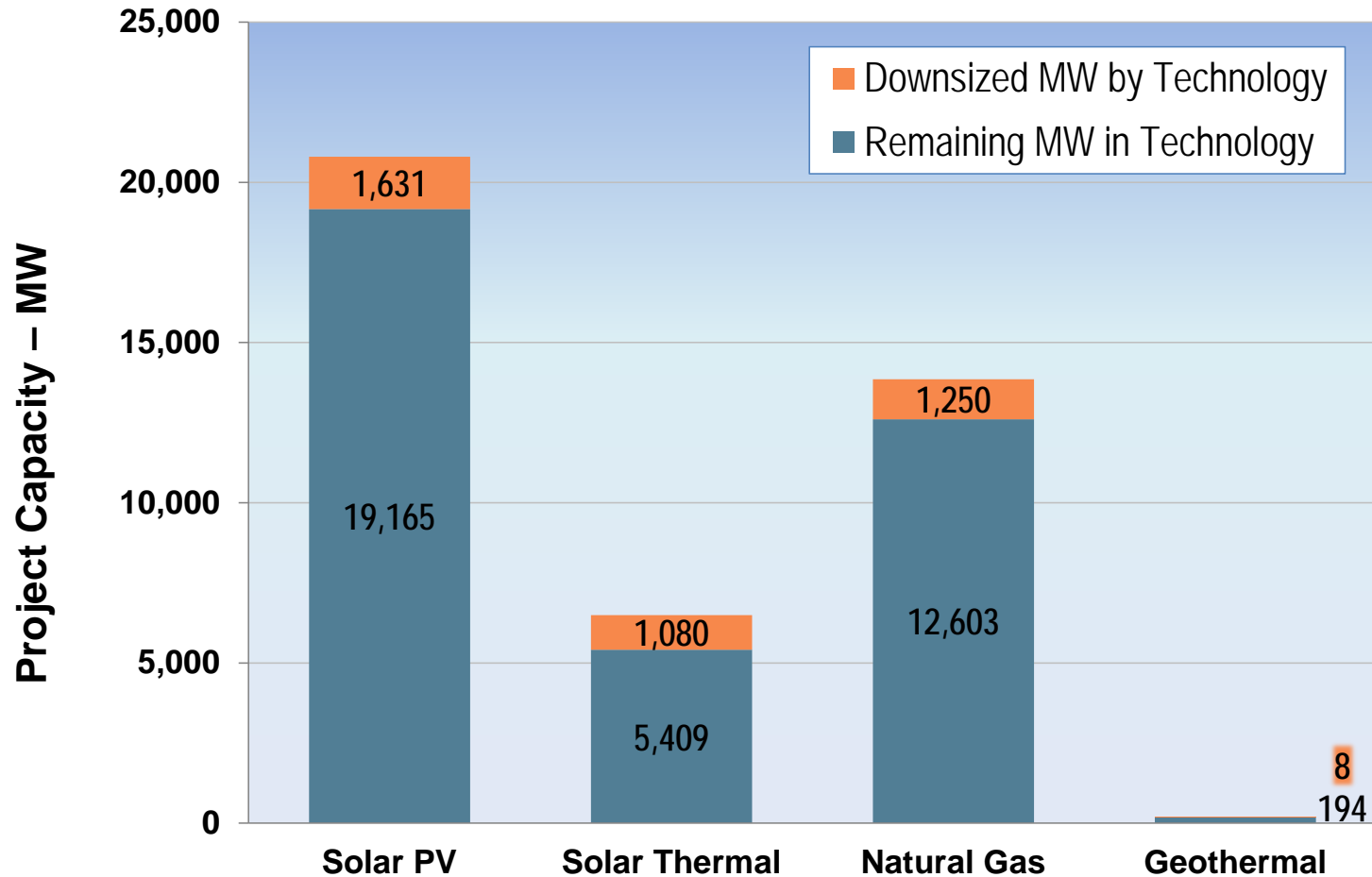
# Current and projected renewable generation capacity in operation within the ISO



\*All online resources included in the 2013 YTD, including those yet to achieve full commercial operation.

# Results of Downsizing Request Window

Technologies and Capacity Reductions of Projects Requesting to Downsize



Technologies of the 13 Downsizing Projects

# Status of interconnection studies and Generator Interconnection Agreement (GIA) process

## Study process

- All cluster studies completed through Cluster 4 (29,285 MW)
- Cluster 5 studies have completed Phase I (5,013 MW)
- C3/C4 2<sup>nd</sup> postings and C5 initial postings due in May (14,236 MW)
- Downsizing studies began February 19, 2013

## GIA process

- 161 GIAs remaining to begin/complete negotiations (19,841 MW)

## Impacts of adding flexibility through downsizing

- Downsizing GIA revisions will impact negotiation of outstanding GIAs