

Policy 30 Discussion

RMLD Board of Commissioners

Public Conversation

3 December 2020 via Zoom

Definitions

RPS /CES – Renewable Portfolio Standard / Clean Energy Standard - statutory program applicable to Investor-Owned Utilities (IOUs). CES increased RPS requirements; added waste energy, fuel cell, and thermal; clarifications

Golden Bill – Municipal Light Plant (MLP) proposal for a statutory program for MLPs, provides carbon-mitigation goals equivalent to CES

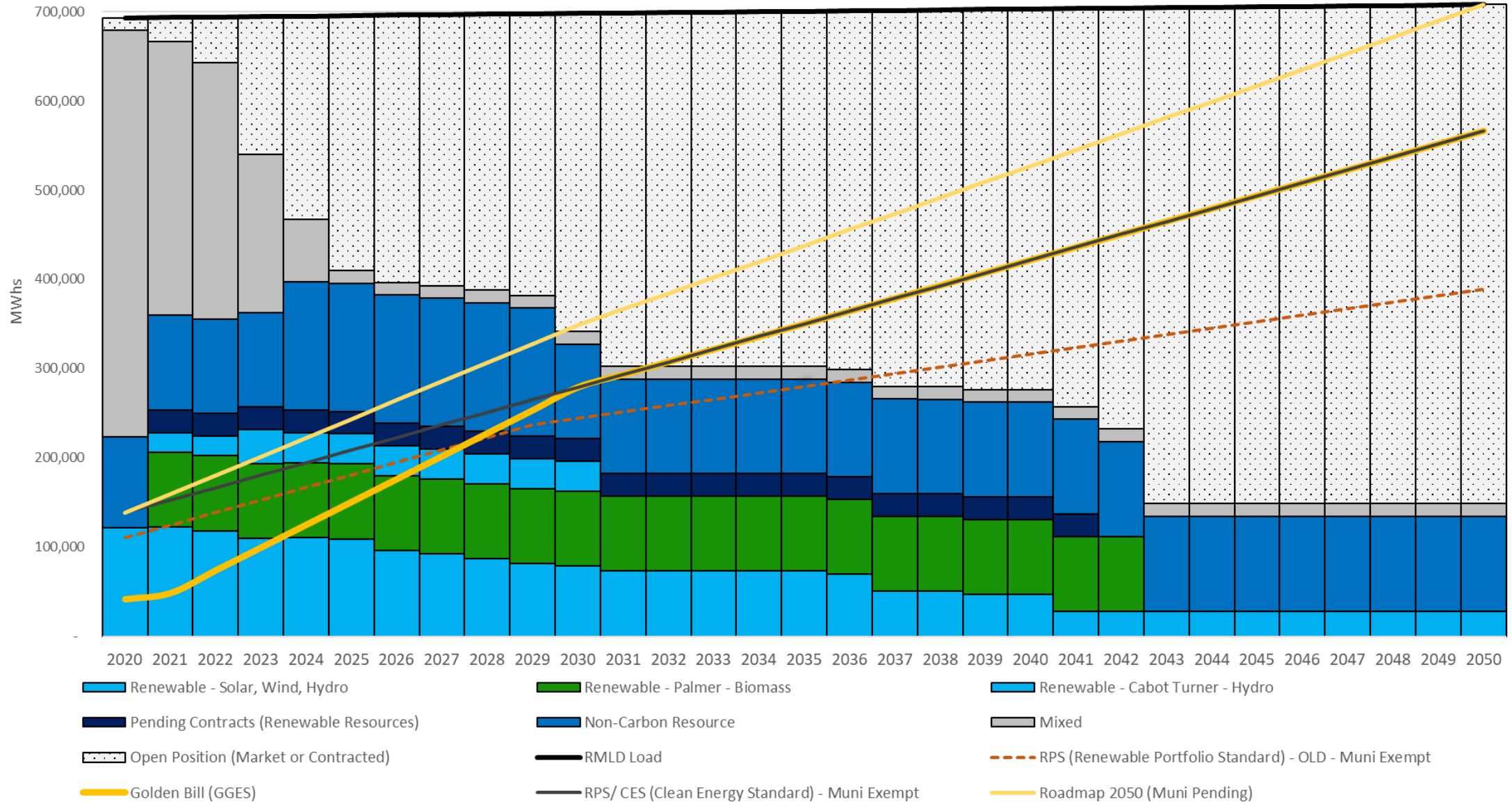
H4912 – passed 29 July 2020; amends 2018 General Laws; 2030 50% reduction, 2040 75% reduction

H4933 – passed 31 July 2020; amends 2018 General Laws; basis of Roadmap 2050

Roadmap 2050 - Part of H4933 clean energy goal; governor change clean to net-zero carbon; awaiting legislative signature (in conference committee); non-carbon goals

- 2030 – 50%
- 2040 – 75%
- 2050 – 100%

RMLD Power Supply: Outlook Through 2050 Net Zero Carbon (GHG Emissions)



RMLD – Current Comparisons

RMLD - RPS/CES Compliance Comparison								
RMLD Portfolio - Current	2020	2021	2022	2023	2024	2025	2026	2027
MA Class 1	0.3%	0.3%	0.3%	0.3%	3.0%	3.0%	2.7%	2.7%
Other Class 1	0%	0%	0%	0%	0%	0%	0%	0%
MA Class 2	0%	0%	0%	0%	0%	0%	0%	0%
Other Class 2	0%	0%	0%	0%	0%	0%	0%	0%
Hydro - no REC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Solar - no REC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SREC (Solar)***	0%	0%	0%	0%	0%	0%	0%	0%
CPS	0%	0%	0%	0%	0%	0%	0%	0%
APS	0%	0%	0%	0%	0%	0%	0%	0%
EFECs	0%	0%	0%	0%	0%	0%	0%	0%
CES-E (EFECs)***	0%	0%	0%	0%	0%	0%	0%	0%
Total	0.3%	0.3%	0.3%	0.3%	3.0%	3.0%	2.7%	2.7%

RMLD - RPS/CES Compliance Comparison (w/o REC RPS match)								
RMLD Portfolio - Current	2020	2021	2022	2023	2024	2025	2026	2027
MA Class 1	0.3%	0.3%	0.3%	0.3%	3.0%	3.0%	2.7%	2.7%
Other Class 1	2.7%	2.7%	7.7%	20.7%	18.0%	17.0%	18.3%	18.3%
MA Class 2	0%	0%	0%	0%	0%	0%	0%	0%
Other Class 2	0%	0%	0%	0%	0%	0%	0%	0%
Hydro - no REC	14.0%	18.0%	17.0%	18.0%	14.0%	14.0%	12.0%	12.0%
Solar - no REC	1.0%	1.0%	1.0%	3.0%	6.0%	6.0%	5.0%	5.0%
SREC (Solar)***	0%	0%	0%	0%	0%	0%	0%	0%
CPS	0%	0%	0%	0%	0%	0%	0%	0%
APS	0%	0%	0%	0%	0%	0%	0%	0%
EFECs	15.0%	16.0%	21.0%	21.0%	27.0%	28.0%	27.0%	27.0%
CES-E (EFECs)***	0.0%	0%	0%	0%	0%	0%	0%	0%
Total	33.0%	38.0%	47.0%	63.0%	68.0%	68.0%	65.0%	65.0%

IOU - MA RPS/CES								
MA RPS/CES Requirements	2020	2021	2022	2023	2024	2025	2026	2027
Class 1*	15%	17%	19%	22%	24%	27%	29%	33%
Class 2**	7%	7%	7%	7%	7%	7%	7%	7%
SREC (Solar)***	5%	6%	5%	5%	4%	3%	3%	1%
CPS	2%	3%	5%	6%	8%	9%	9%	9%
APS	5%	5%	6%	6%	6%	6%	7%	7%
CES-E (EFECs)***	0%	20%	20%	21%	21%	21%	21%	21%
Total	33%	57%	61%	66%	70%	73%	76%	78%

*Incremental CES requirement is included in Class I RPS

**Class II includes Class II Waste Energy, Hydro; requirements for 2023-2027 are TBD and simply rolled forward

***SRECs (Solar) include both SREC I and SREC II

****CES-E not applicable prior to 2021; TBD from 2024-2027 and simply rolled forward

RMLD – Roadmap 2050

RMLD - Roadmap 2050 100% non-carbon					
		2020	2030	2040	2050
	Roadmap 2050 non-carbon goal	20%	50%	75%	100%
RMLD current	non-carbon	32%	46%	36%	18%
		12%	-4%	-39%	-82%
RMLD current	carbon	66%	2%	2%	2%
RMLD current	open	2%	52%	62%	80%



Next Steps – Educational Discussions

Economic implications – Dec 16th BoC meeting

RPS/CES and Roadmap 2050 consultant workshop – Jan 2021 BoC meeting

Policy 30 reformation and vote - TBD