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Updates to the Power Source Disclosure Program Public Workshop

Jordan Scavo
Renewable Energy Division

Rosenfeld Hearing Room February 1, 2018



Housekeeping

- Handouts available on desk at room entrance and on AB 1110 online docket
- Written comments due Monday,
 February 23, 2018 by 5:00 PM. Comments may be submitted directly to the docket through our e-filing system at:

https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=16-OIR-05



Agenda

- Review of Major Areas Covered in the Staff Proposal
 - Including revisions made from the prior version of the implementation proposal for AB 1110
- Presentation on proposed annual reporting forms
- Public comment period



Process

- Pre-rulemaking
 - Scoping Workshop, Feb 2017
 - Implementation Proposal Workshop, July 2017
 - Implementation Proposal Workshop, Feb 2018
- Formal Office of Administrative Law (OAL) rulemaking
 - Adopt regulation in 2019



Overview of Power Source Disclosure

- Annual reporting of generation sources and retail sales
- Disclosure of an electricity portfolio's power mix to consumers on a Power Content Label



AB 1110 Requirements for LSEs

- Requires the disclosure of the GHG emissions intensities associated with each electric service product
- Requires all marketing claims about GHG emissions to be consistent with the PSD methodology
- Requires the disclosure of an LSE's unbundled RECs



Guiding Principles

- Provide reliable, accurate, timely, and consistent information
- Minimize the reporting burden
- Ensure there is not double-counting of GHGs or environmental attributes
- Rely on the most recent verified GHG emissions data



Guiding Principles

 Align with the Air Resources Board's GHG emissions accounting under Mandatory Reporting Regulation (MRR)



Major Areas of the Proposal

- RECs and the PSD Program
- GHG Emissions Intensity Calculations
- Power Mix Accounting
- GHG Emissions Accounting
 - Procurement Types
 - Emissions Adjustments



RECs and Emissions Accounting

- REC-based accounting could lead to undercounting of emissions
- RECs do not confer emission reductions
- Firmed-and-shaped imports differ qualitatively from directly-delivered sources
- Alignment with CARB method reflects progress toward emissions reduction goal of SB 350



GHG Emissions Intensity Calculation

- Calculated using MRR emissions data (supplemented with EIA data), and PSD procurement and retail sales data
- Expressed in kg CO2e/MWh



PSD Accounting Overview

Procurement Type	Power Mix Accounting	GHG Emissions Intensity Accounting
Specified - Directly Delivered	Resource type of generator	Emissions intensity of generator
Specified - Firmed & Shaped	Resource type of REC	Emissions intensity of substitute power
Specified - Null Power	Unspecified power	Emissions intensity of generator
Unspecified	Unspecified power	Default emissions intensity of unspecified power



Power Mix Accounting

POWER CONTENT LABEL					
	2014	2014 CA			
ENERGY RESOURCES	POWER MIX	POWER MIX**			
Eligible Renewable	32%	20%			
Biomass & waste	7%	3%			
Geothermal	2%	4%			
Small hydroelectric	4%	1%			
Solar	12%	4%			
Wind	7%	8%			
Coal	10%	6%			
Large Hydroelectric	8%	6%			
Natural Gas	38%	45%			
Nuclear	0%	9%			
Other	0%	0%			
Unspecified sources of power*	12%	14%			
TOTAL	100%	100%			

 [&]quot;Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.

^{**} Percentages are estimated annually by the California Energy Commission based on the electricity sold to California consumers during the previous year.



GHG Emissions Accounting

- Based on delivered electricity
- Aligns with emissions accounting under the Air Resources Board's MRR



Procurement Types - Directly Delivered Procurements

- Must be directly delivered to a California balancing authority
- Directly delivered renewables must be transacted with the associated RECs
- Null Power



Procurement Types - Firmed-and-Shaped Imports

- Electricity from a renewable generator is not delivered to California customers
- Firmed-and-shaped imports will be assigned the emissions factor of the substitute power



Procurement Types - Asset Controlling Suppliers

• LSEs may claim the resource mix of an asset-controlling supplier for specified purchases of system power from asset-controlling suppliers



Procurement Types - Unspecified

- Null power
- Spot Market Purchases Through the Energy Imbalance Market



Emissions Adjustments - Self-Consumption & Grid Losses

- AB 1110 requires power mix and GHG accounting to be based on retail sales
- To reconcile net procurement with retail sales, self-consumption and grid losses will be proportionally attributed to non-renewable sources



Emissions Adjustments - Line Loss Adjustment Factor for Imports

• Eliminated proposal to adopt CARB's line loss adjustment factor for imported electricity



Emissions Adjustments - POU Emissions Adjustment Credits

• Amends the proposal to allow banking of historical emissions credits going back to effective date of AB 1110 (Jan 1, 2017)



Other Topics

- Biogenic CO2 will be disclosed as a footnote on the power content label
- Removal of Schedules 3 & 4 previously used for power pools
- Schedule Updates
 - Establish a due date for public agencies to submit final board approval of PSD filings



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Proposed Reporting Templates & Worksheets

- Schedules 1-4 & attestation
- Attestation
- Supplemental calculators
- Proposed Power Content Label



Rulemaking Document Availability

- Copies of rulemaking documents available on CEC website at:
 - https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=16-OIR-05
- Copies of rulemaking documents can also be obtained by contacting Energy Commission staff



Public Comments

- Comments via WebEx: Use "raise hand" feature; we will un-mute you during your turn.
- Comments via phone: We will un-mute all lines at end of comment period; please un-mute your phone only to ask a question
- Written comments due Friday, February 23rd by 5pm. Comments may be submitted directly to the docket through our e-filing system at:

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Next Steps

- Draft proposed regulation language in Q2 2018
- Initiate formal rulemaking in late 2018
- Present for adoption in 2019
- GHG emissions disclosures begin in 2020 (for 2019 reporting year)





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