

DOCKETED

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Updates to the Power Source Disclosure Program Public Workshop

Jordan Scavo

Renewable Energy Division

Rosenfeld Hearing Room

July 14, 2017



Housekeeping

- Handouts available on desk at room entrance and on AB 1110 online docket
- Written comments due Friday, July 28th by 5pm. 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

- Background information
- Presentation on AB 1110 implementation proposal & other potential program modifications
- Discussion section:
 - Clarifying questions on implementation proposal a
 - Discussion of other potential modifications
- Public comment period



Process

- Pre-rulemaking
 - Scoping Workshop, February 2017
- Formal Office of Administrative Law (OAL) rulemaking



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

- Requires the disclosure of the GHG emissions intensities associated with each electric service product
- Requires the disclosure of a retail supplier's unbundled RECs
- Requires guidelines for the adjustment of a publicly owned utilities' emissions in certain cases of excess generation



AB 1110 Implementation Proposal for Power Source Disclosure

- Developed with input from Scoping Questions
- Reconciling AB 1110 with the existing PSD program
- One reporting mechanism, two outputs



Guiding Principles

- Provide reliable, accurate, timely, and consistent information
- Minimize the reporting burden
- Ensure there is not double-counting of GHGs or environmental attributes
- Align with the Air Resource Board's GHG emissions accounting under MRR



Statutory Definitions

- Electricity portfolio = electricity offering = electric service product
- Annual sales = retail sales
 - Excludes wholesale sales, line losses, and municipal load



Greenhouse Gases

- Targeted Gases: CO₂, CH₄, and N₂O
- Excluded Emissions: CO₂ from biogenic fuels



Renewable Energy Credits

- RECs must be reported for power mix
- RECs do not factor into GHG emissions intensities
- RECs reported by generation year
- Unbundled RECs reported separately, outside power mix and GHG emissions intensity



Power Mix Accounting

POWER CONTENT LABEL		
ENERGY RESOURCES	2014 POWER MIX	2014 CA 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%

* "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.



Data Sources & GHG Emissions Intensity Calculations

- In-state generators
 - MRR emissions data
 - EIA generation data
- Out-of-state generators
 - Emissions factors directly from MRR
- Cogenerators
 - Assign an electricity generation factor using EIA fuel consumption and generation data



Specified Imports in GHG Emissions Accounting

- Firmed-and-shaped electricity will have emissions profile of its substituted power
- Null power from zero-GHG resources will be counted
- Energy Imbalance Market treated as it is under MRR
- GHG emissions from imports to be adjusted up 2% to account for line losses



Unspecified Sources of Power in GHG Emissions Accounting

- Unspecified power will use CARB's default GHG emissions factor of 0.428 MT CO₂e/MWh
- Purchases from Asset Controlling Suppliers may use their CARB assigned emissions factors
- Imported generation and its GHG emissions to be adjusted up 2% to account for line losses



Emissions Adjustment for Publicly Owned Utilities

- Available to public utilities that have excess GHG-free generation in certain circumstances
- Creates emissions credits of 0.428 MT CO₂e/MWh for excess zero-GHG generation



New Reporting Requirements

- Unbundled RECs reported in aggregate and separate from electricity sources, according to retirement year
- Report quantity of municipal load (e.g., street lighting)
- Identify which renewable sources are from firmed-and-shaped transactions
- Input the GHG emissions factor for each line item of electricity



Other Potential Modifications

- Statutory due date for Power Content Label:
 - When does the first full billing cycle of the third quarter end?
 - Are there practical limitations of this due date for stakeholders?



Other Potential Modifications (cont'd)

- Energy storage losses:
 - Should storage losses be treated as line losses?
- Power pools:
 - Should Schedules 3 & 4 and the regulatory language pertaining to power pools be eliminated?



Other Potential Modifications (cont'd)

- Asset-Controlling Suppliers' system mix:
 - Should a retail supplier be allowed to claim the system mix of an ACS for purchases of unspecified power from those entities?



Next Steps

- Draft proposed regulation language in Q3 2017
- Initiate formal rulemaking in Q1 2018
- Present for adoption in Q3 2018
- GHG emissions disclosures begin in 2020 (for 2019 reporting year)



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
- Written comments due by 5pm on Friday, July 28th.



Contacts

Jordan Scavo

Technical Lead

AB 1110 Implementation

Jordan.Scavo@energy.ca.gov

(916) 654-5189

Camille Remy-Obad

Program Supervisor

Power Source Disclosure

Psdprogram@energy.ca.gov

(844) 421-6229



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, July 28th by 5pm. Comments may be submitted directly to the docket through our e-filing system at:
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Discussion – Clarifying Questions on Implementation Proposal



Discussion – Other Potential Program Changes

- Statutory due date for Power Content Label:
 - When does the first full billing cycle of the third quarter end?
- Energy storage losses:
 - Should storage losses be treated as line losses?
- Power pools:
 - Should Schedules 3 & 4 and the regulatory language pertaining to power pools be eliminated?



Discussion – Other Potential Program Changes (con't)

- Asset-Controlling Suppliers' system mix:
 - Should a retail supplier be allowed to claim the system mix of an ACS for purchases of unspecified power from those entities?



Public Comments Section