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GHG Emissions Baselines for POUs Required to File an IRP

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Joint Agency Workshop on Potential Methodologies to Establish Publicly Owned
Utility Greenhouse Gas Reduction Targets for Integrated Resource Planning

Energy Commission

April 17, 2017



Considerations When Setting Baselines

- Provide a comparative point of reference, useful in measuring relative changes
- Informative, not regulatory
- Data limits choice of baseline year
- Uncertainty between actual and estimated emissions
- Hydro variation year-over-year measurably changes portfolio emissions
- Others?



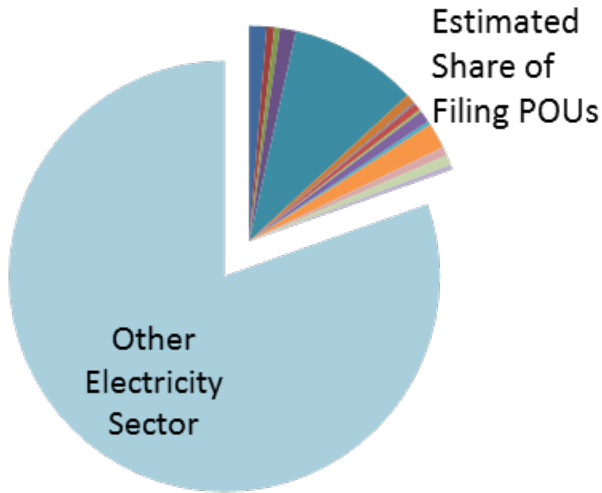
Staff Proposed Methodology

- Use Power Source Disclosure Program claims as the basis for estimating emissions
- Proposed Baseline Year 2009
 - WECC TEPPC average hydro year in CA
 - May not be an average year for all
- Assumptions
 - Emissions intensity by resource type
 - Heat rate (coal and natural gas)
 - Emissions intensity for imports and traded power



Comparison: 2009 Baseline to 2009 ARB Emissions Inventory

Total Electricity Sector Emissions
~ 100 MMt CO₂e



2009 Baseline by Filing POU MMt CO ₂ e	
Anaheim	1.60
Burbank	0.73
Glendale	0.51
IID	1.50
LADWP	12.00
Modesto	0.91
Palo Alto	0.14
Pasadena	0.70
Redding	0.22
Riverside	1.10
Roseville	0.34
SMUD	2.40
CCSF	0.00
Silicon Valley	0.83
Turlock	0.92
Vernon	0.45
Total	24.35



Thank you