Attachment A

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CPUC/CEC Workshop on Reporting and Tracking Greenhouse Gas Emissions for a Load-Based Cap

SMUD Experience with Reporting and Estimating Emissions from Unspecified Purchases

April 12, 2007

Bud Beebe

SACRAMENTO MUNICIPAL UTILITY DISTRICT

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San Francisco, CA

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Publicly Owned

Electric Utility in Sacramento

- 1.4 Million Population (~4% of CA)
- 11,380 GWh Retail Load*
- SMUD Generation; Hydro, Solar, NGCCyCoGen, Wind, NGCCy
- SMUD is a Net Wholesale Importer

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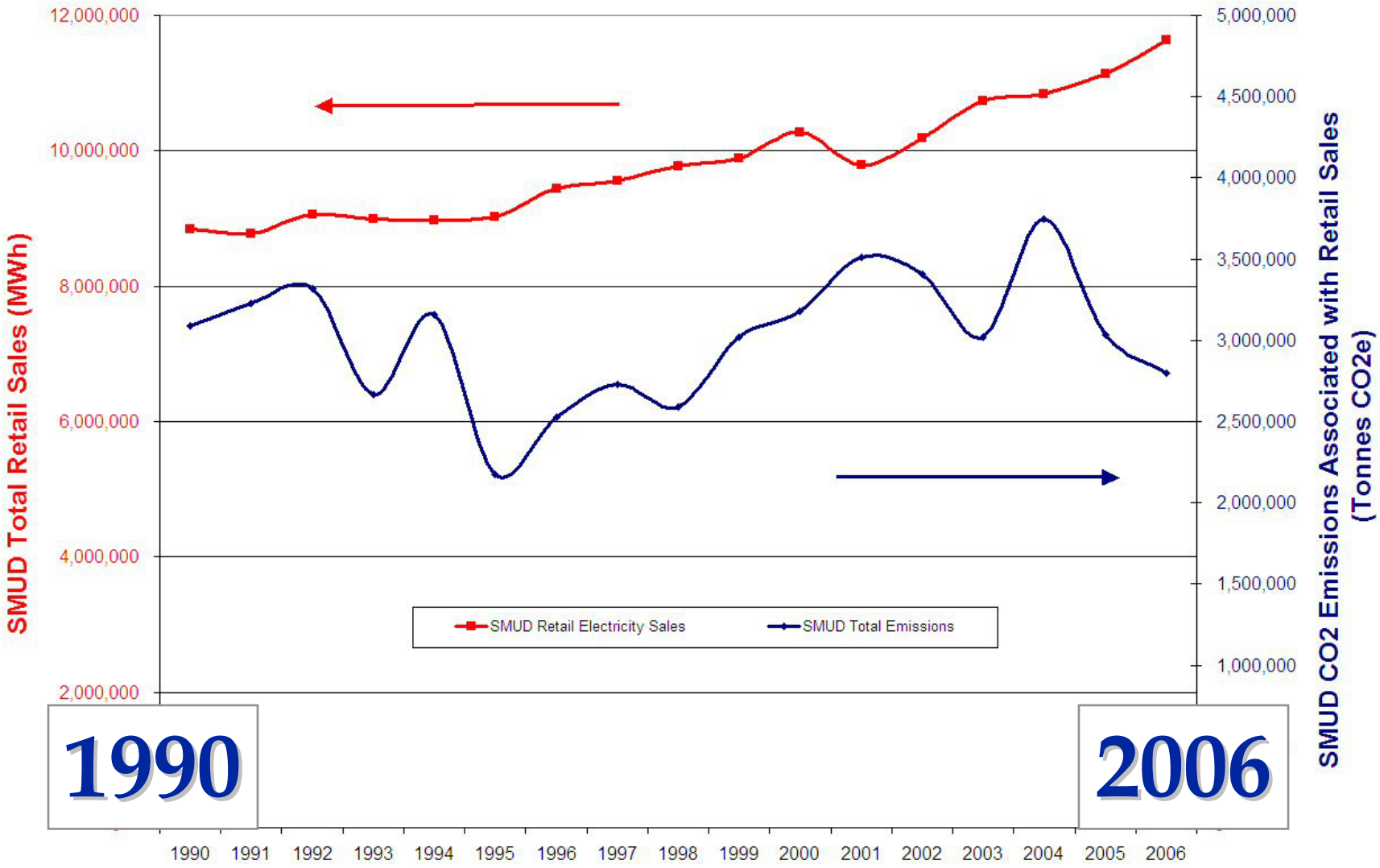
* Uncertified 2006 values

SMUD Retail Demand & Ghg[Oct'06]



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Non-Specific Resource Reporting Experience

Issues of Importance

- Large numbers of transactions, but organized and well documented
- System/Regional Averages need adjustment for specific purchases no longer a part of the average
- Renewable Energy variability needs accomodation
- System/Regional Averages change over time
- Load-Based accounting needs better, more uniform method to handle Import/Export effects on Utility System average

Wholesale Transaction Metrics

	Number of Transactions	GWh
Imports	12,062	7,069
Exports	9,991	3,279
Out of Area	7,439	
Total	29,492	10,348
	SMUD Generation	7,660
	SMUD Retail Load	11,380

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Wholesale Transaction Metrics

Additional Context :

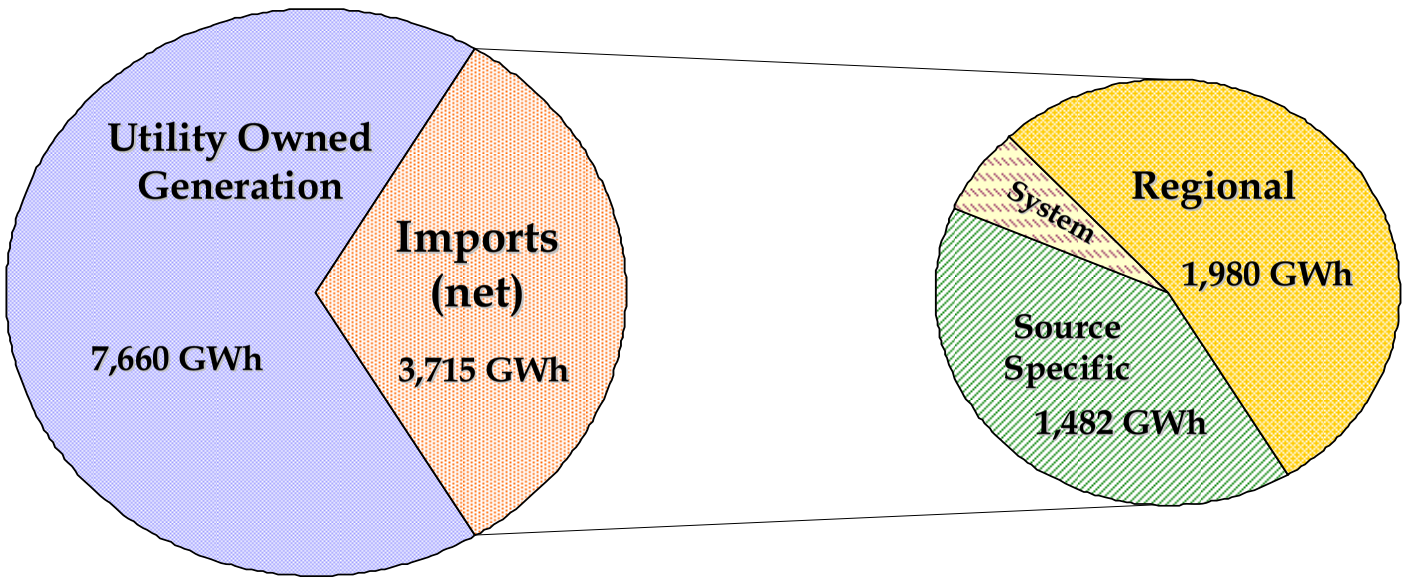
Total Contracts in 2006 – 171

Total Parties - 64

Imports from top 5 Suppliers - about 75% (energy)

Resource Metrics - Energy

(CCAR Default Method)



11,380 GWh
Retail Load

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Non-Specific Resource Reporting Experience

Which Category Fits ????
[Applies to IMPORTS *AND* EXPORTS]

- **Source Specific**: Contract Unit/Facility Specific; Contract Fuel & Heatrate Specific
- **System Specific**: Contract Specific System Energy; SMUD Export short term contracts
- **Regional**: Pwr Mkter or Utility non-specific (emission rate based on Operating Region or POD)

Resource M

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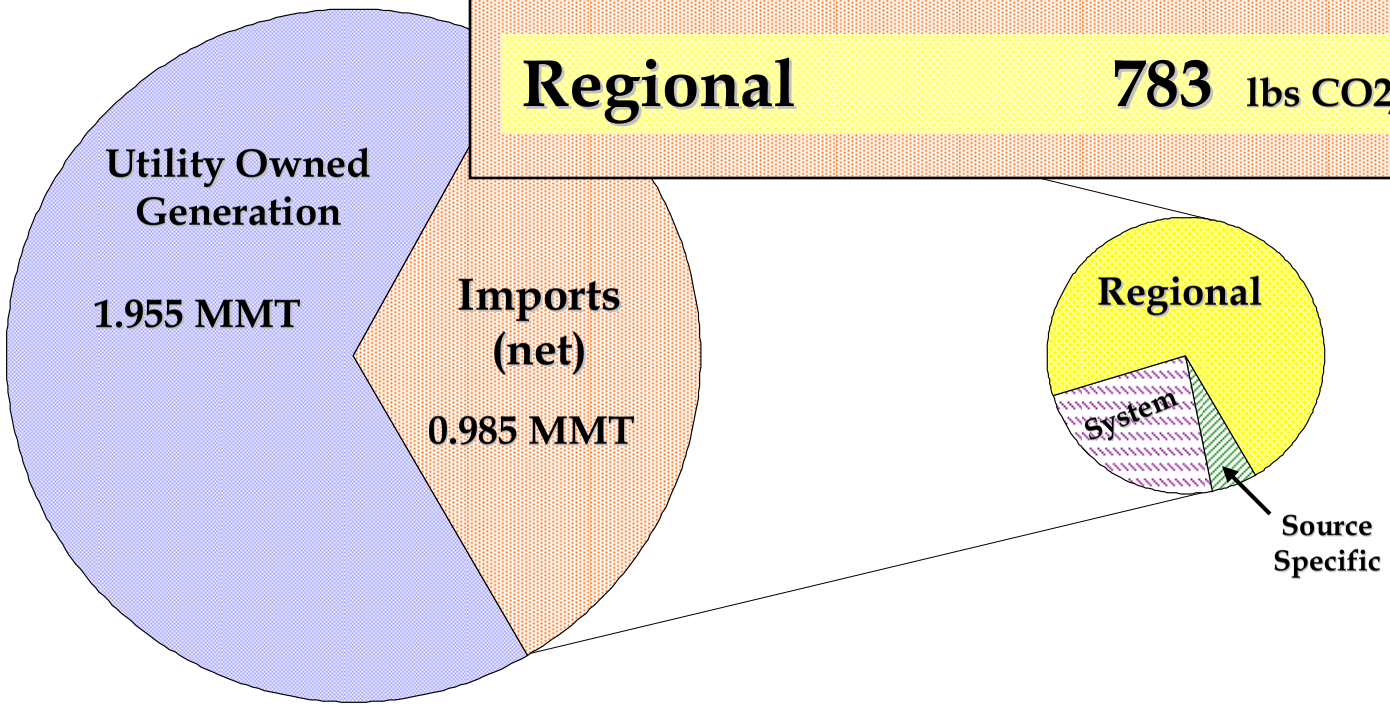
Source Specific	79	lbs CO2/MWh
System Specific	1808	lbs CO2/MWh
Regional	783	lbs CO2/MWh



2.94 MMTCO2e Load Base

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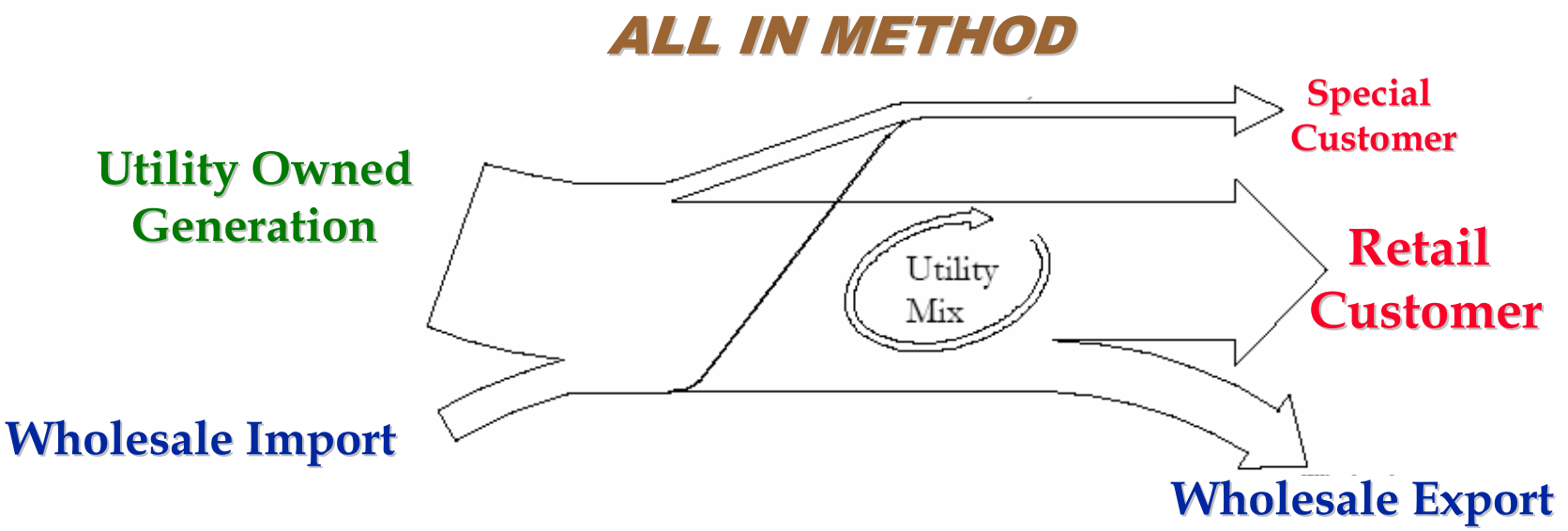
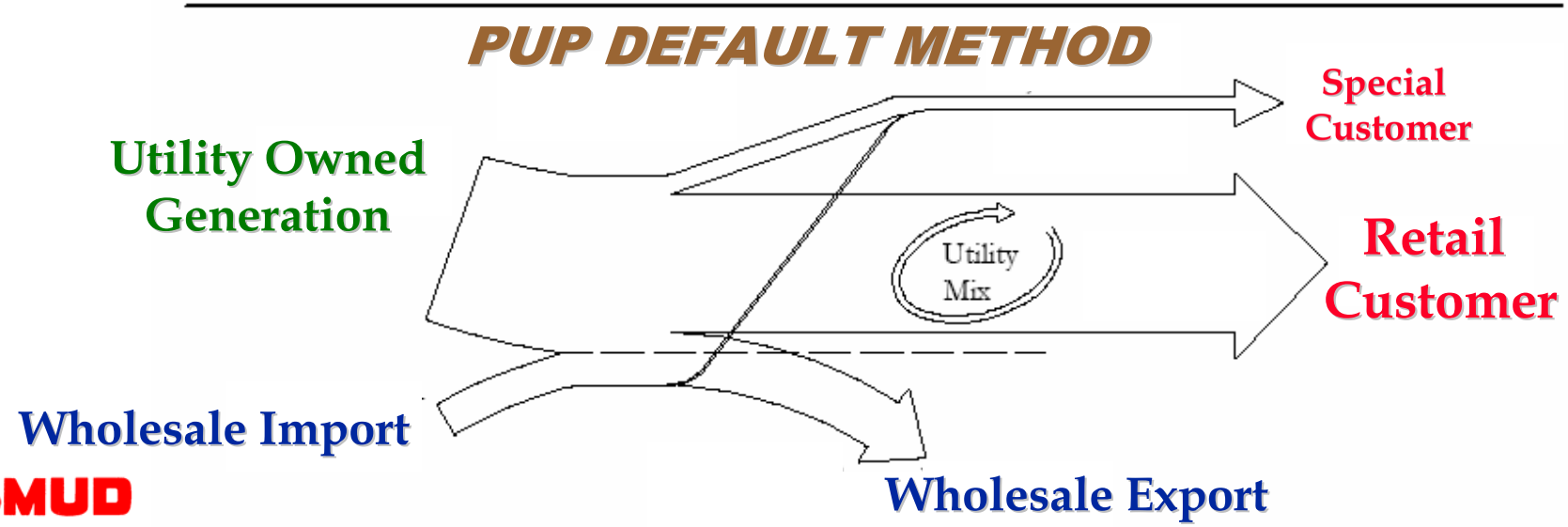
System Accounting Options





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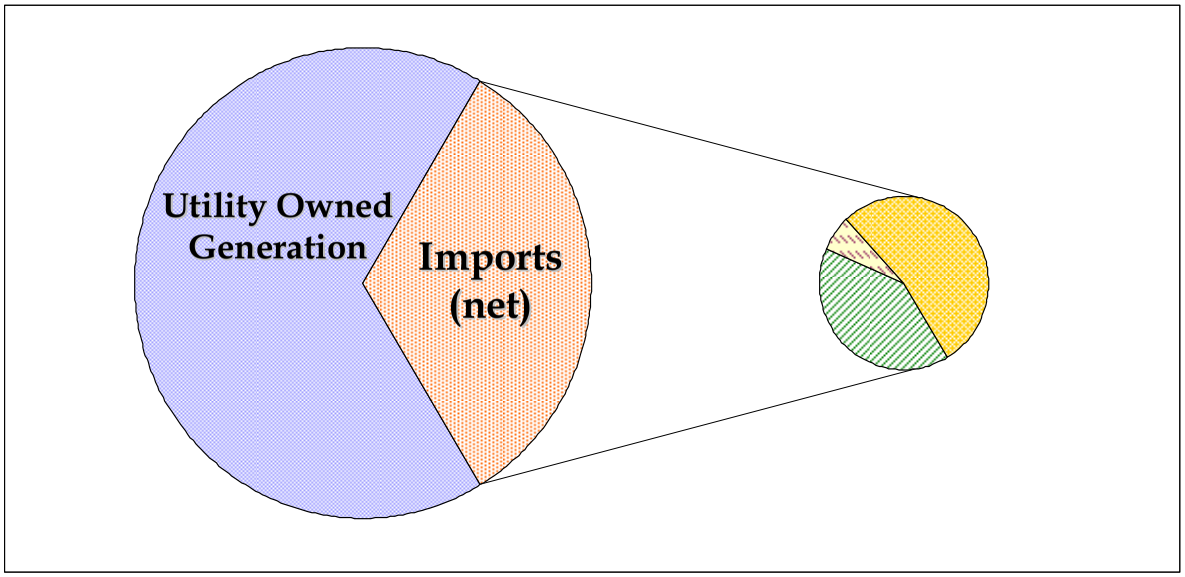
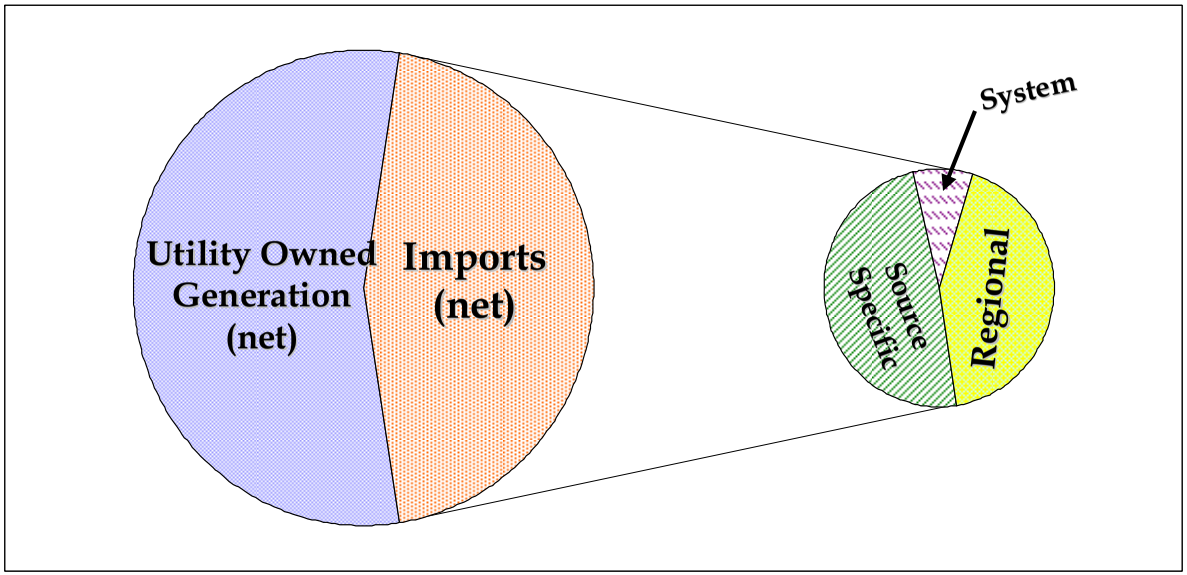
Resource Metrics - Energy

All In vs CCAR Default Method

Default Method



All In Method



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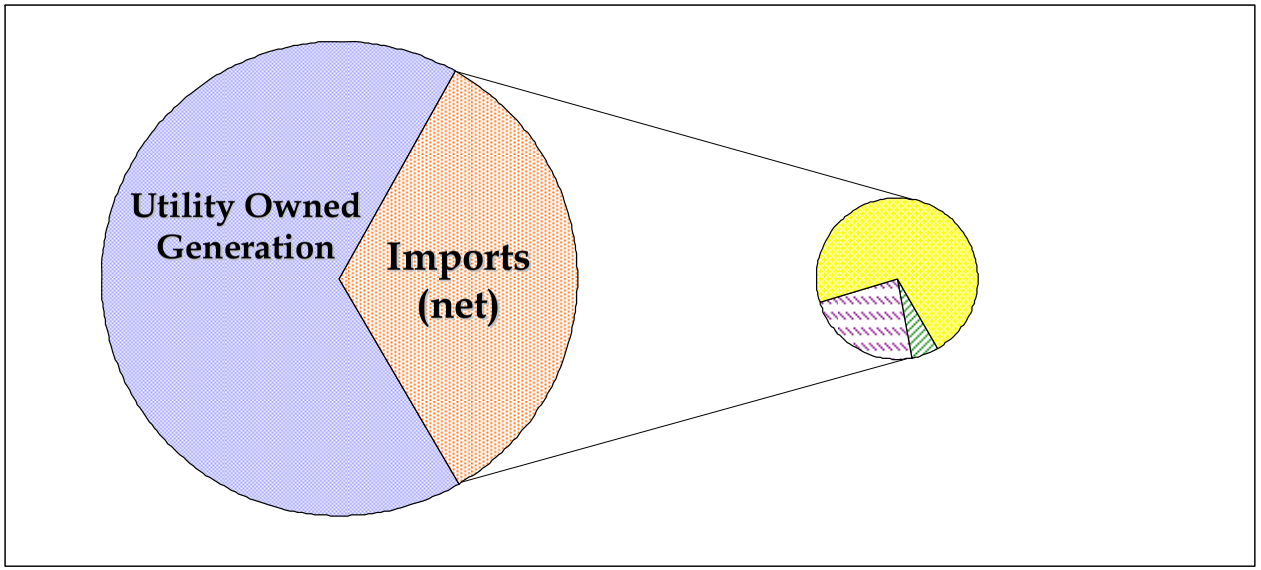
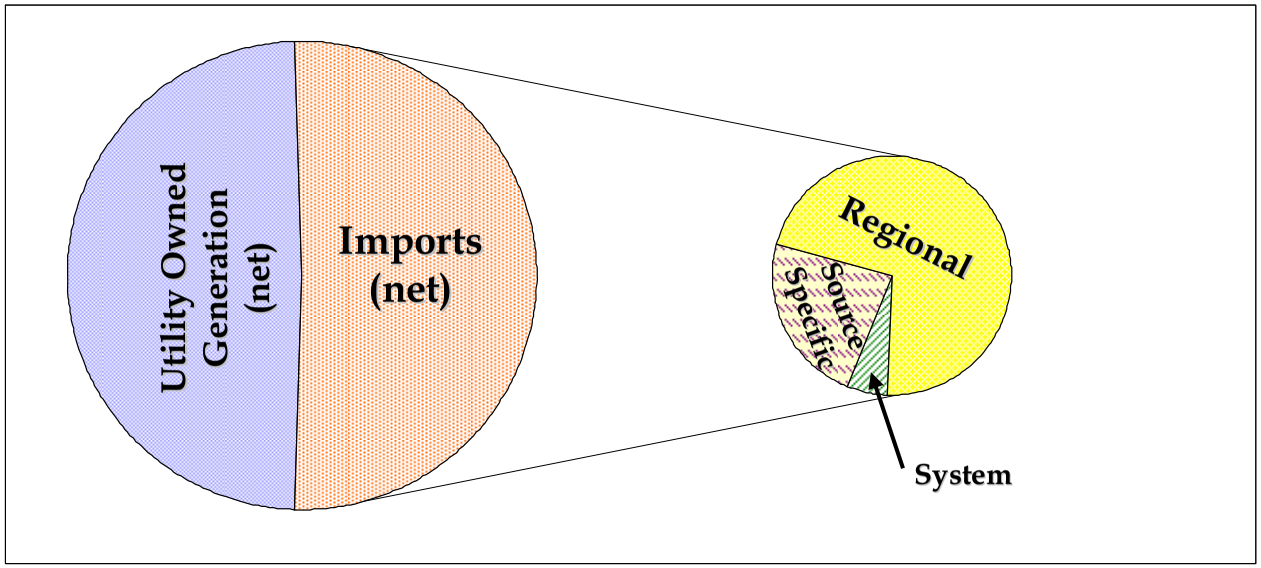
Resource Metrics - Ghg

All In vs CCAR Default Method

Default Method



All In Method



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Thank You

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End of Attachment A