



# CPUC Data Dashboard on 2016 Electric Utility Environmental Metrics



**Michael Colvin**  
**Policy and Planning Division**

**August 2017**





## Purpose of the Data Dashboard Project

Publish key datasets in 9 general data categories to shed light on utility performance in a publicly accessible manner (Synapse)

1. Residential electric usage and bill data
2. Customer satisfaction
3. Customer engagement
4. System efficiency
5. Safety
6. Network support services
- 7. Environmental goals performance**
8. Utility workforce
9. Research and development projects





## Metrics Evaluated

These metrics are designed to give insight on the state's large electric utilities activities and performance on environmental indicators

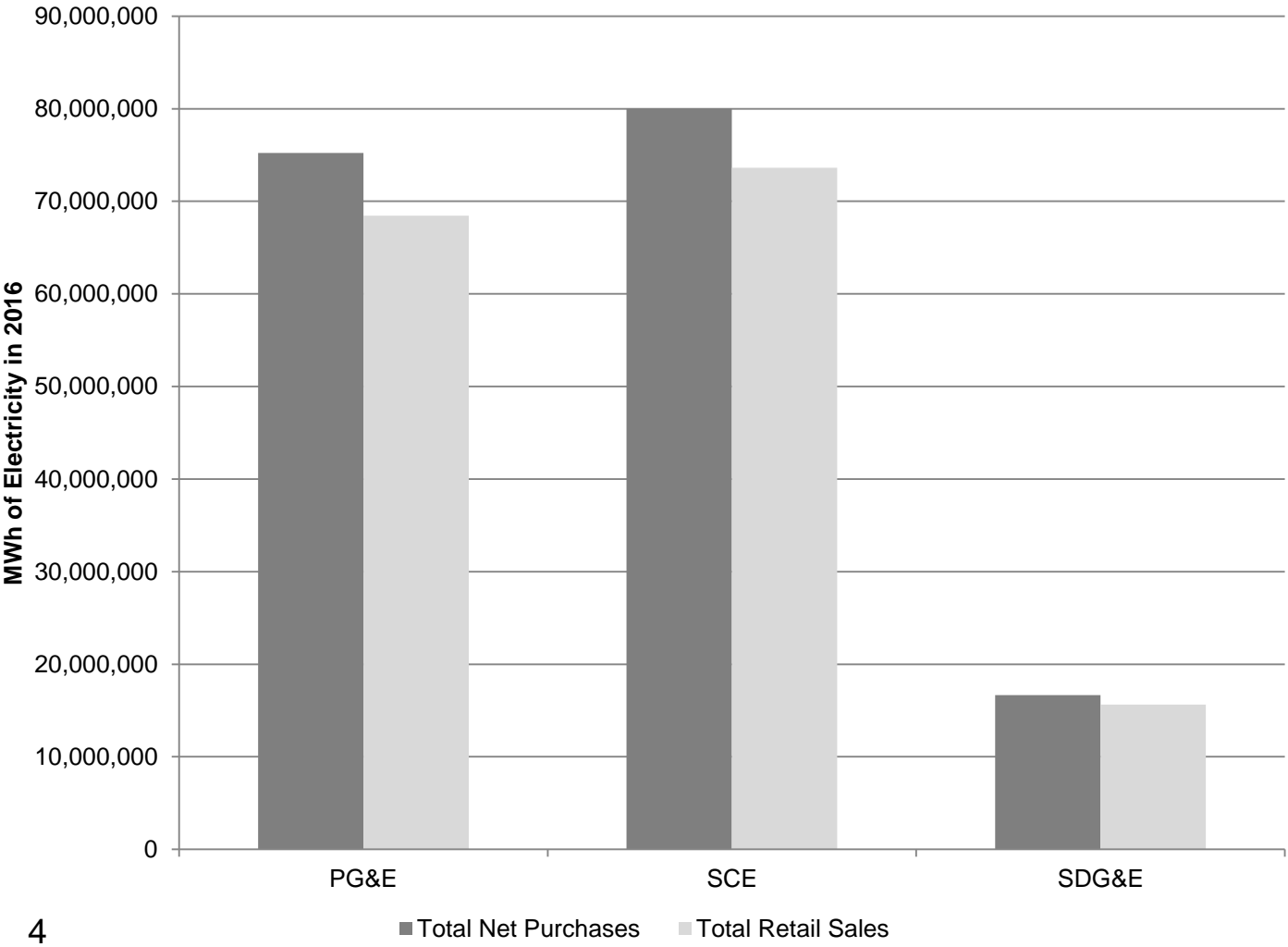
1. Electricity Sales
  1. Net Purchases by Resource
  2. Utility Owned Generation
2. Number of Customers Accounts
3. Sulfur Dioxide Intensity from Utility Owned Generation
4. Nitrogen Dioxide Intensity from Utility Owned Generation
5. Carbon Dioxide Intensity
6. Renewable Generation Percentage
7. Carbon Intensity Percentage

*Please note: all information is based on publicly available sources*





# 2016 Electricity Net Purchases and Retail Sales



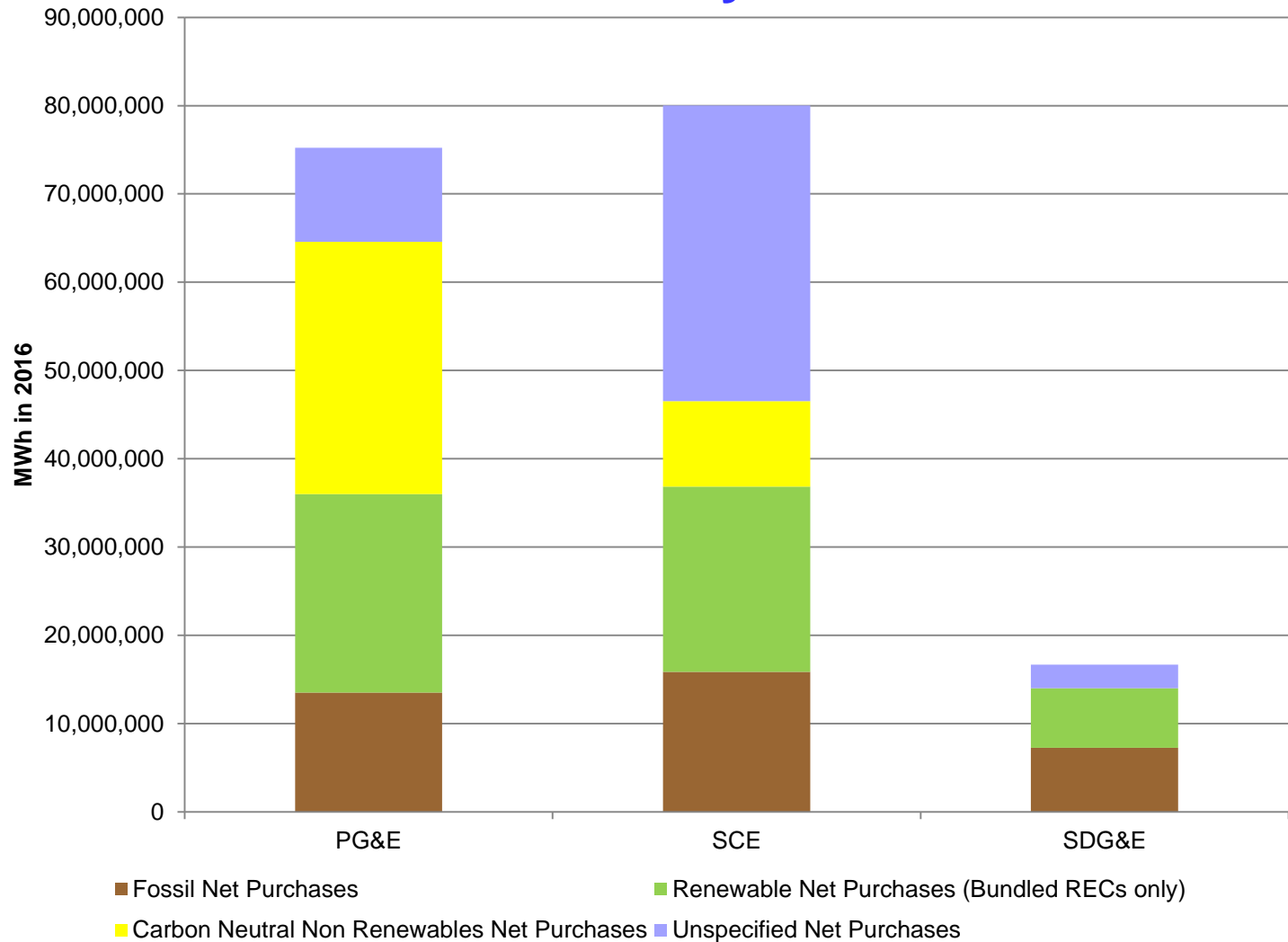
Difference between two data points is primarily driven by line losses.

PG&E ~9%  
SCE: ~8%  
SDG&E: ~6%





## 2016 Net Electricity Purchases

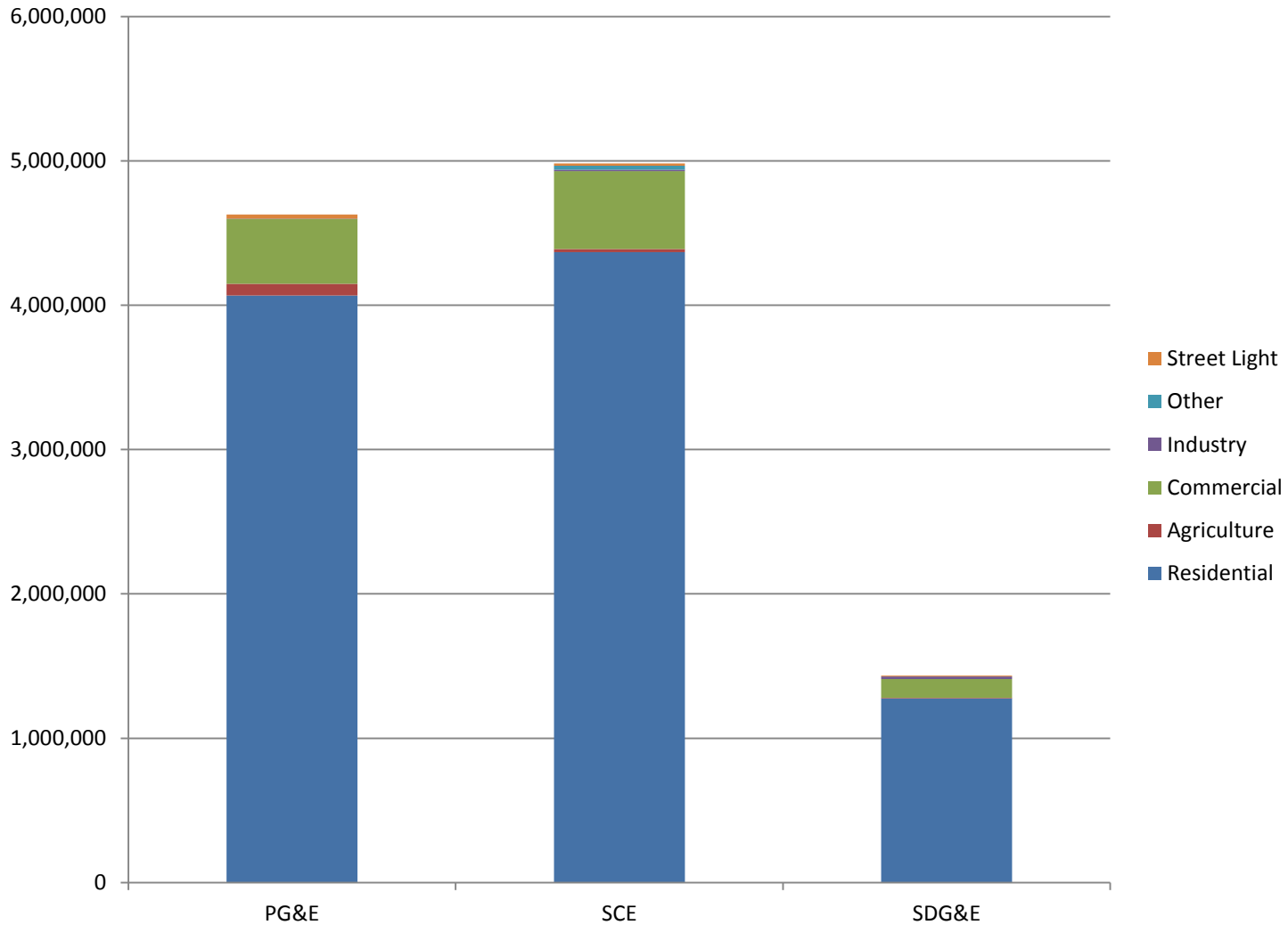


Source: Power Content Label



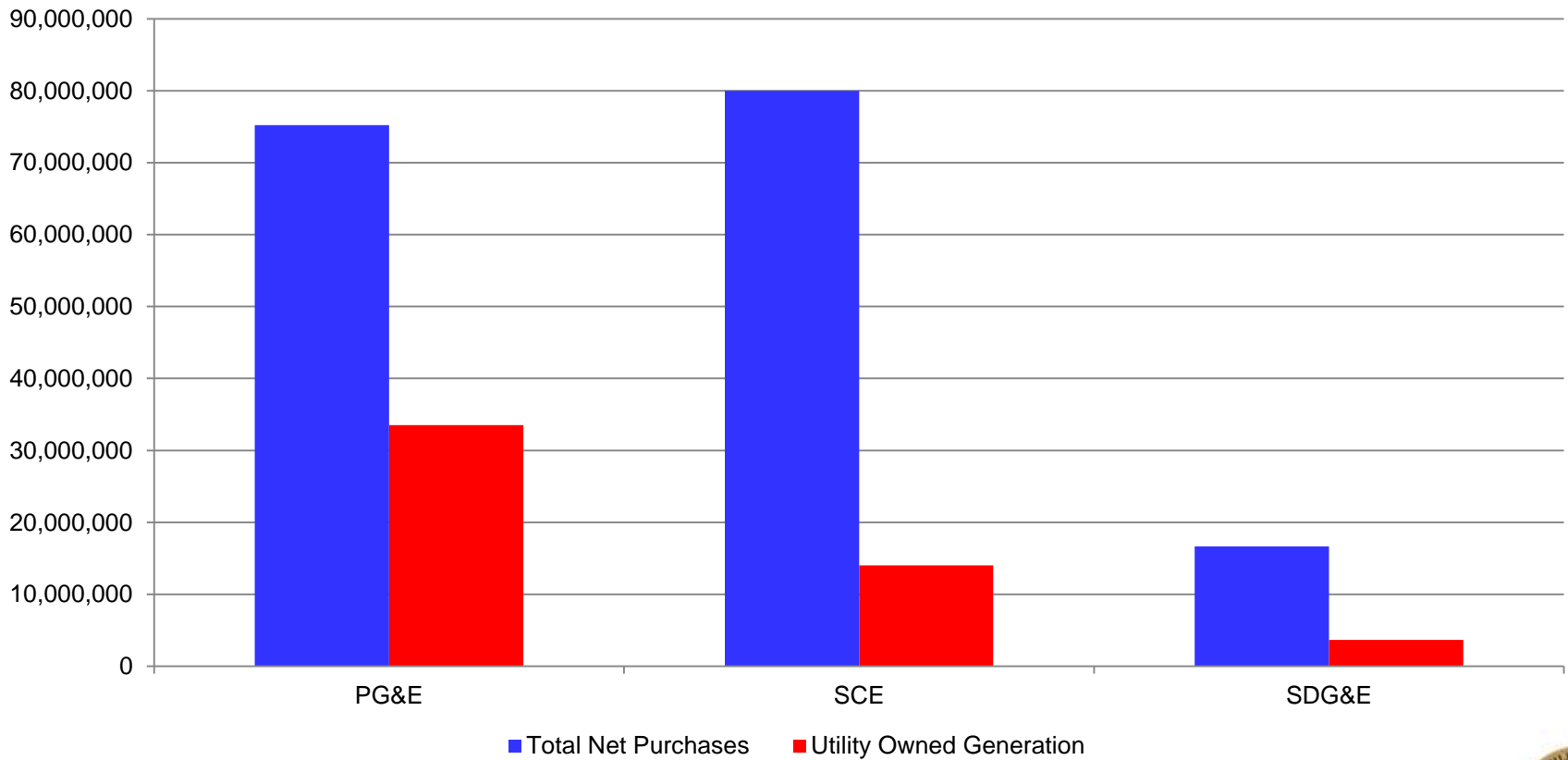


## Number of Customer Accounts by Type (as of 12/2016)





# 2016 Electricity Generated from Utility Owned Generation Compared to Total Net Purchases

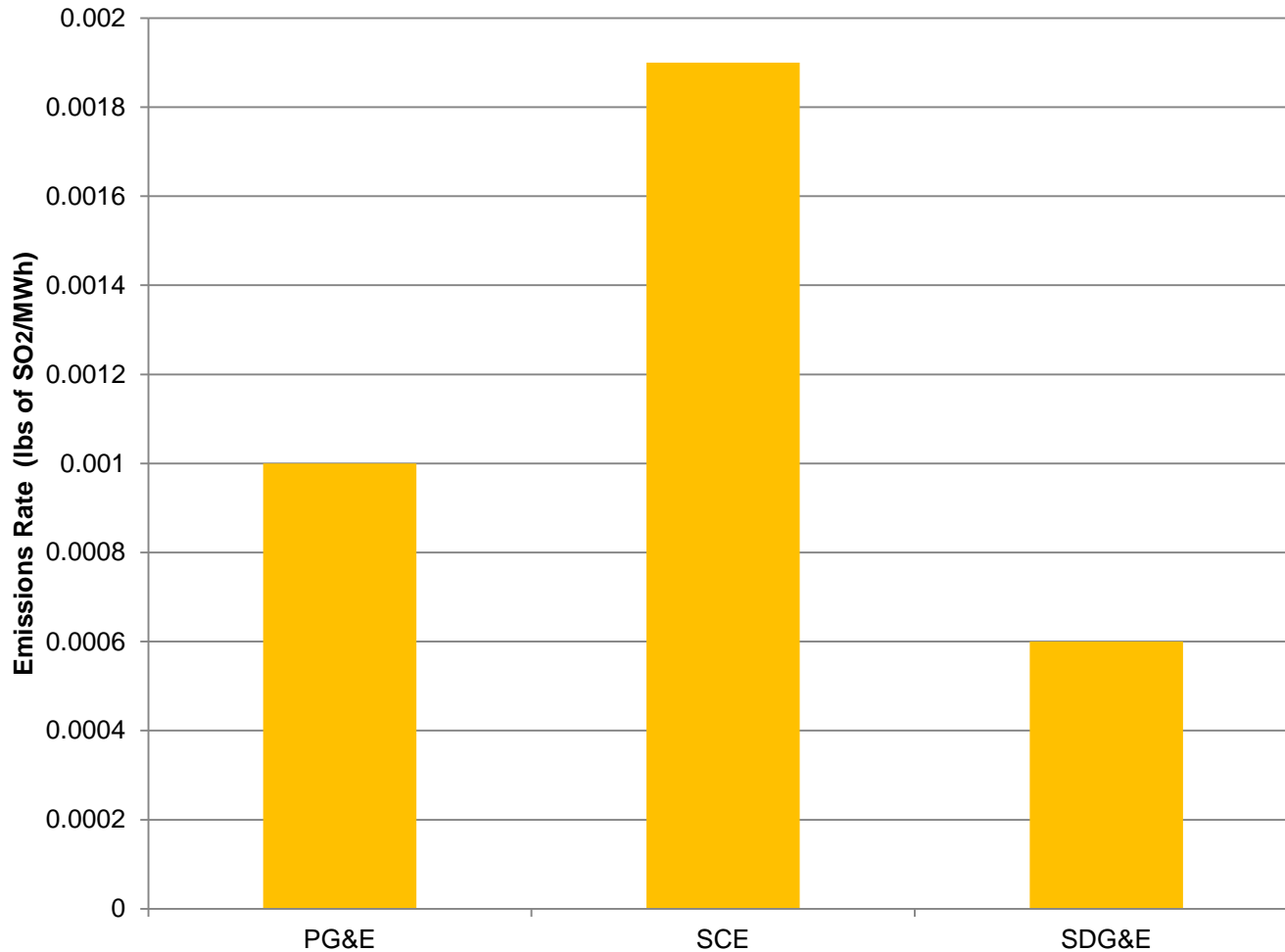


Source: Power Content Label





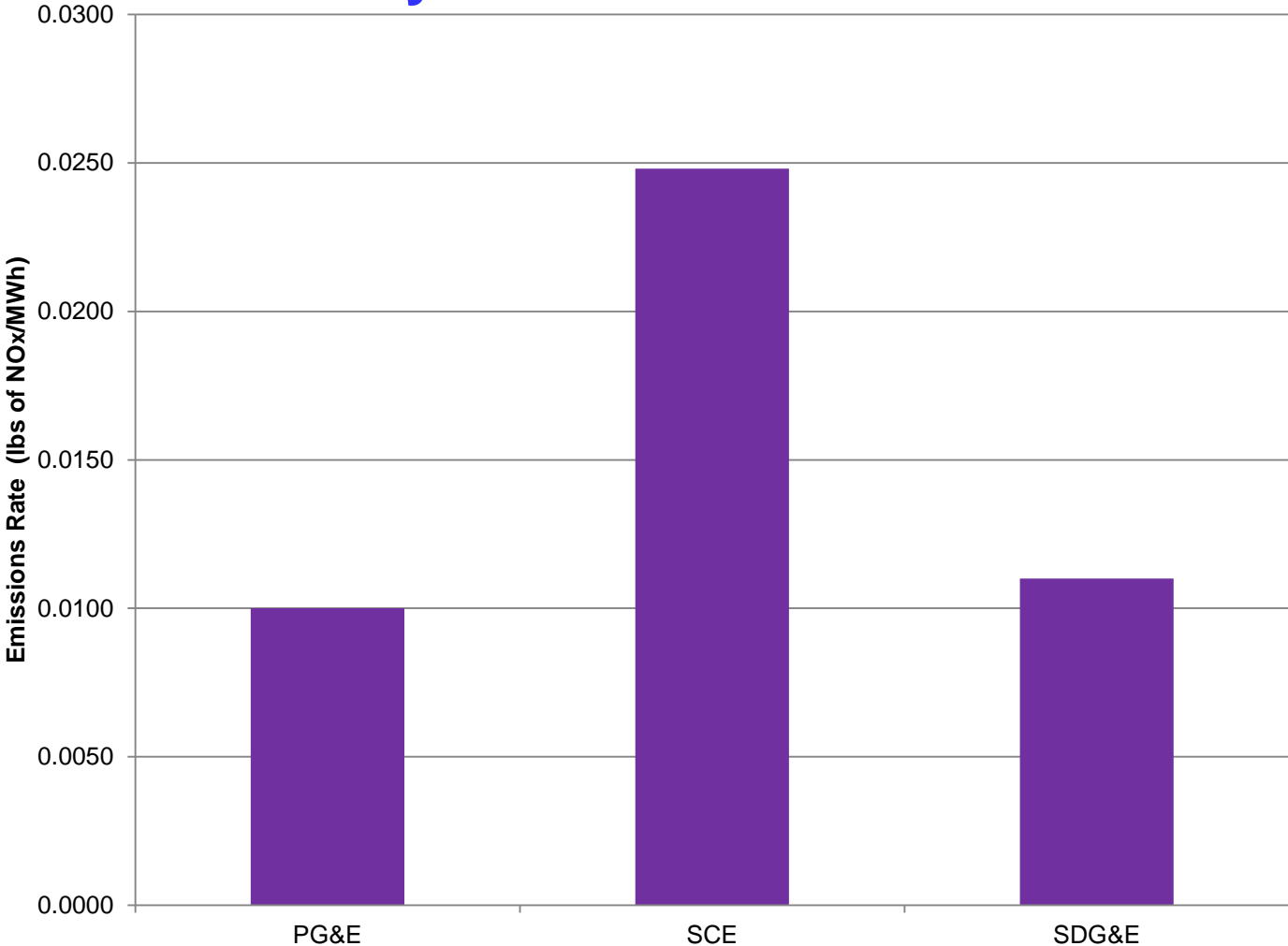
## 2016 Sulfur Dioxide Emissions Intensity from Utility Owned Power Plants







# 2016 Nitrogen Dioxide Emissions from Utility Owned Power Plants

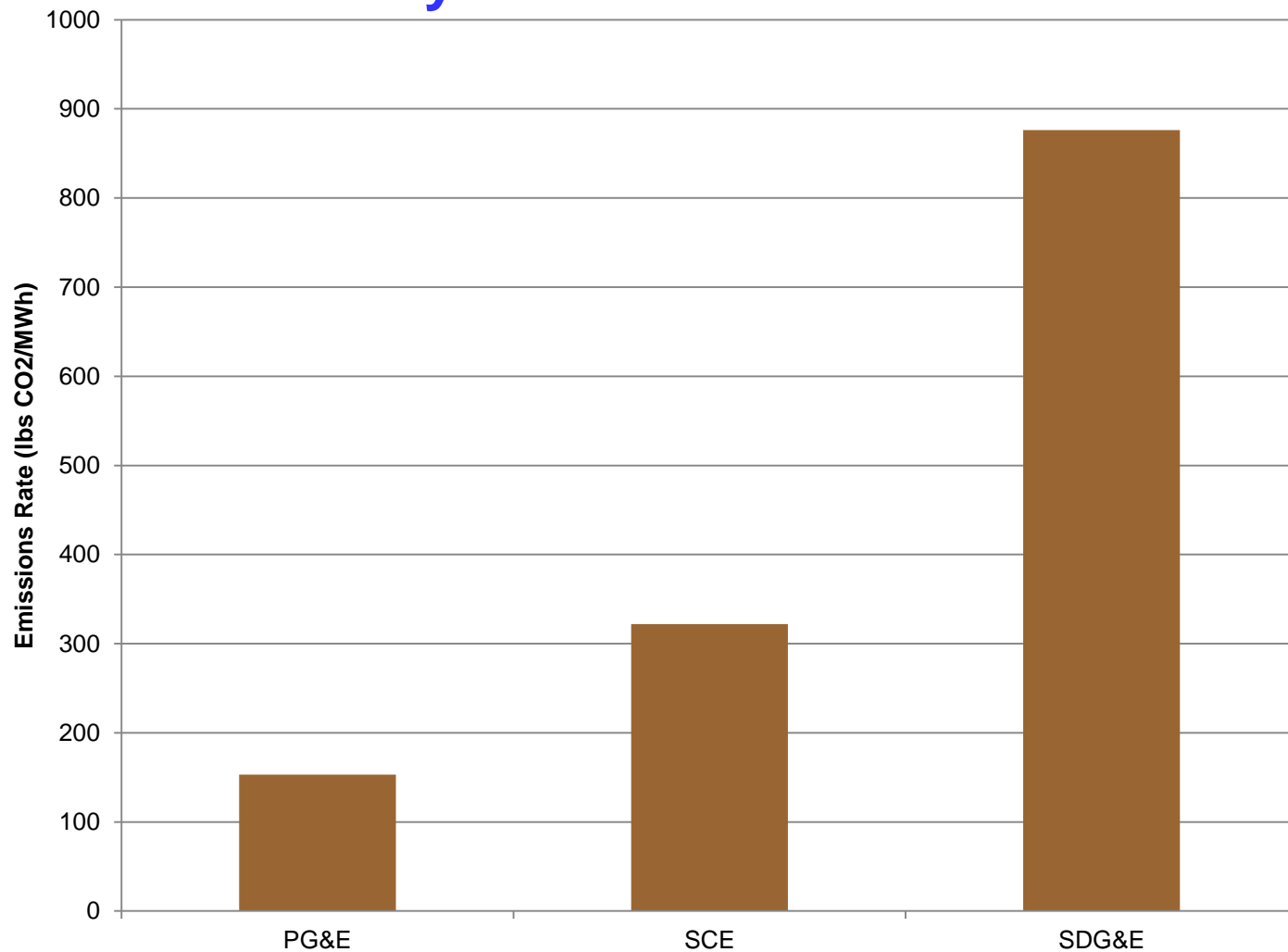


Source: As Reported to Air Resources Board





## 2016 Carbon Dioxide Emissions Intensity from Utility Owned Power Plants

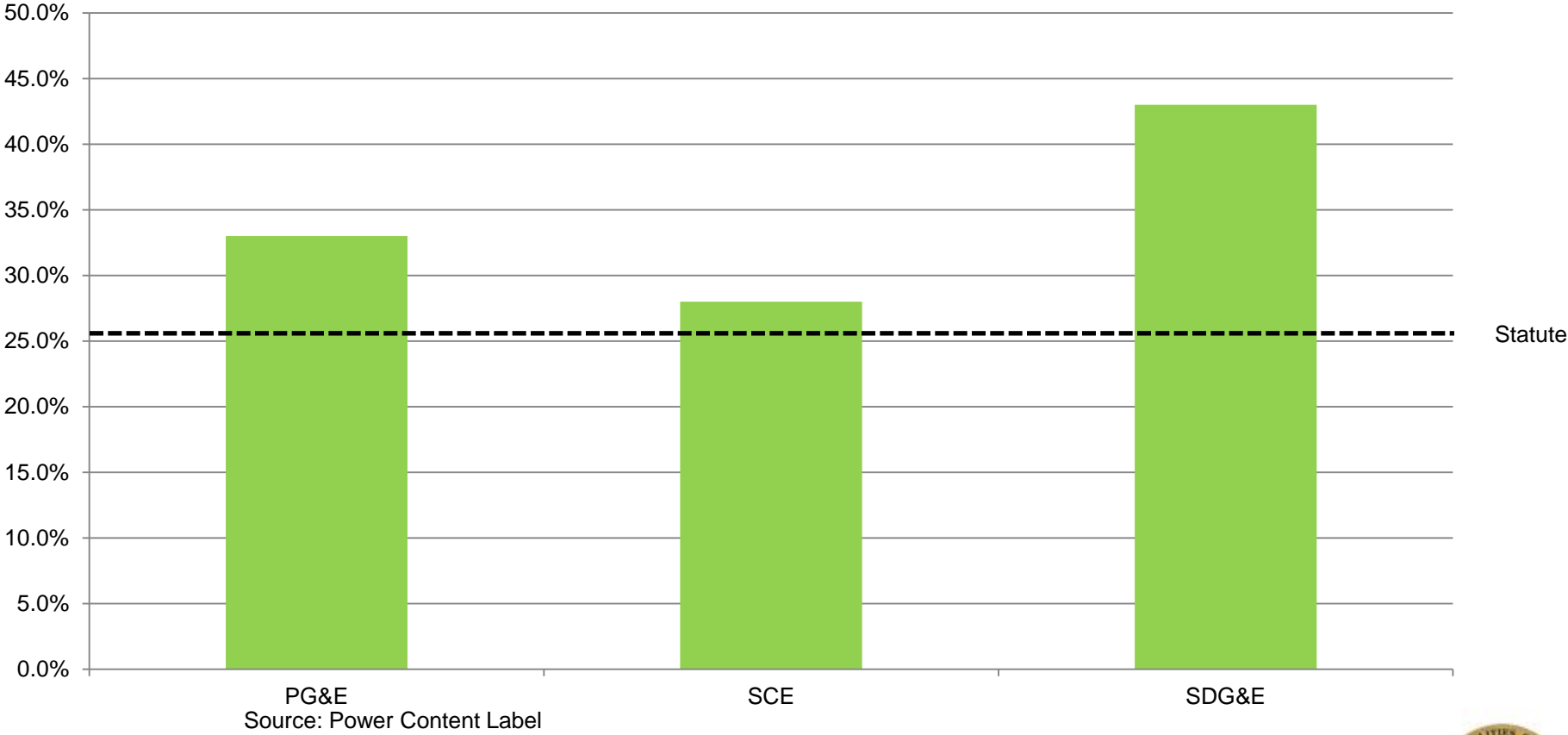


Source: As Reported to Air Resources Board



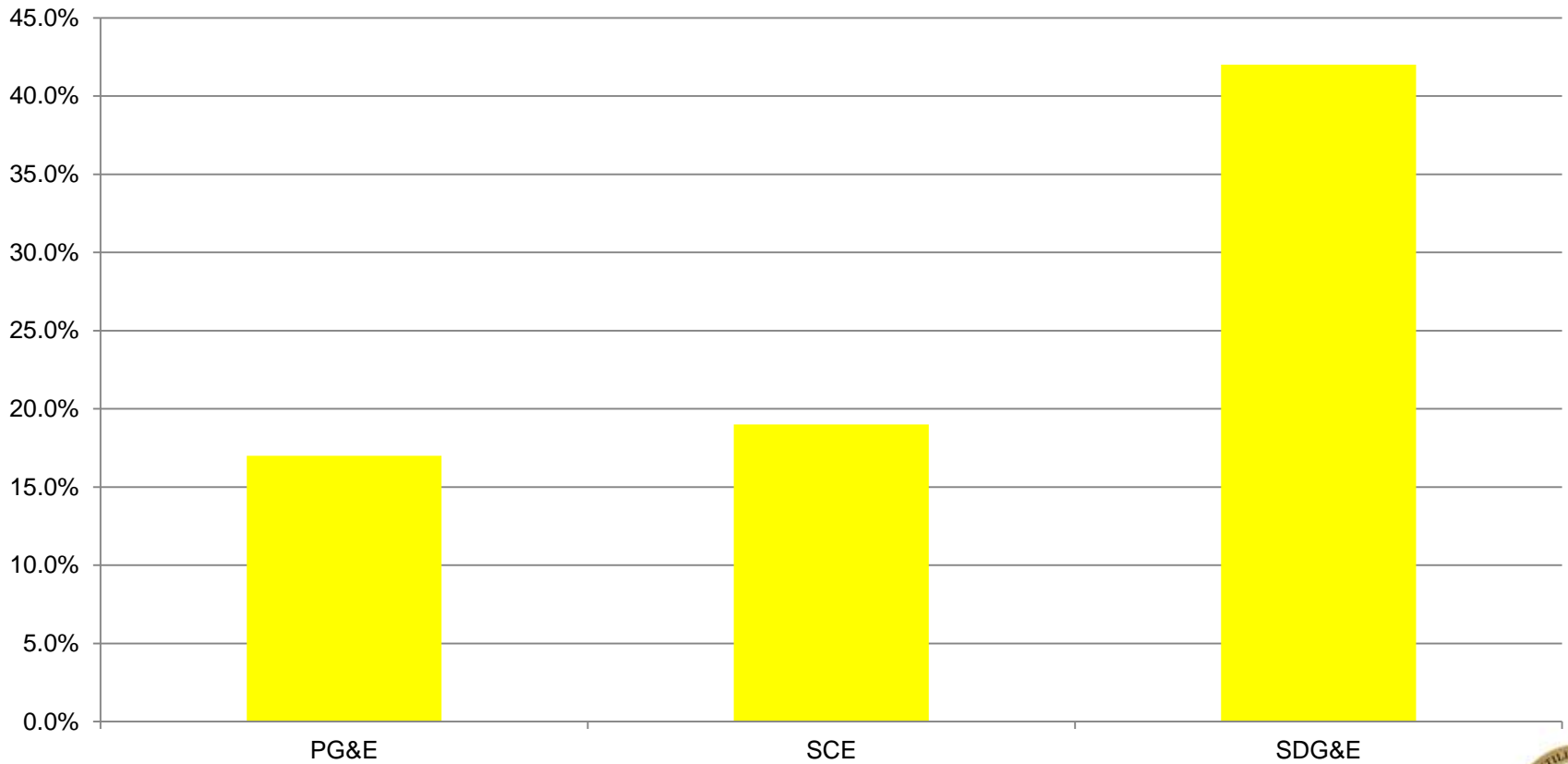


# 2016 Renewable Generation Percentage





## 2016 Carbon Neutral Non-Renewable Generation Percentage

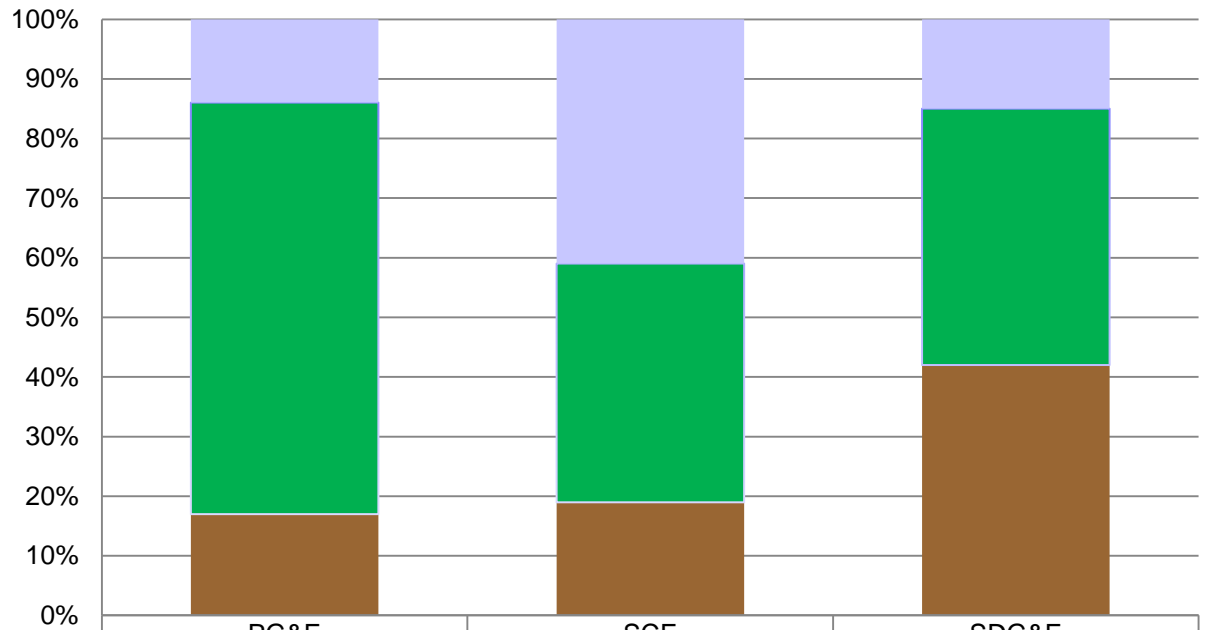


Source: Power Content Label





# 2016 Carbon Intensity of Electric Generation



	PG&E	SCE	SDG&E
■ Percentage of Unknown Carbon Content	14.0%	41.0%	15.0%
■ Percentage of Carbon-Neutral Based Power Generation	69.0%	40%	43%
■ Percentage of Carbon Based Power Generation	17.0%	19%	42%

Source: Power Content Label





# Thank You!

Michael Colvin  
[michael.colvin@cpuc.ca.gov](mailto:michael.colvin@cpuc.ca.gov)  
415-355-5484



[www.cpuc.ca.gov](http://www.cpuc.ca.gov)

