



CRS

center for  
resource  
solutions

# Voluntary Renewable Energy Certificate Markets

**November 17, 2011**  
**Renewable Energy Markets 2011**  
**San Francisco, CA**

**Rachael Terada**  
**Project Manager**



®

**Green-e**

**Figure 1**  
**Green-e Energy Certified Retail Sales**  
**by Product Type, 1998–2010**  
 (in MWh)

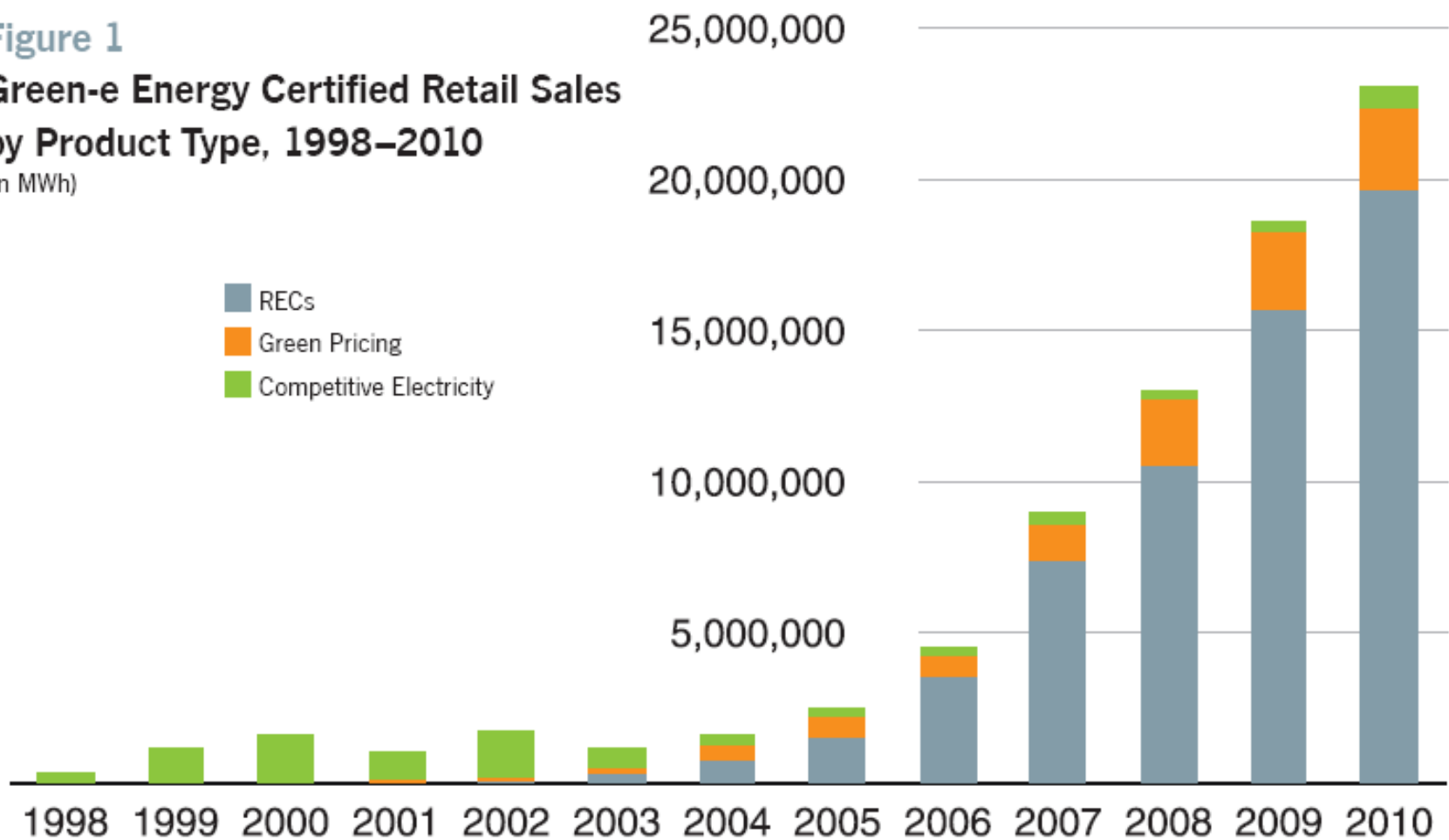
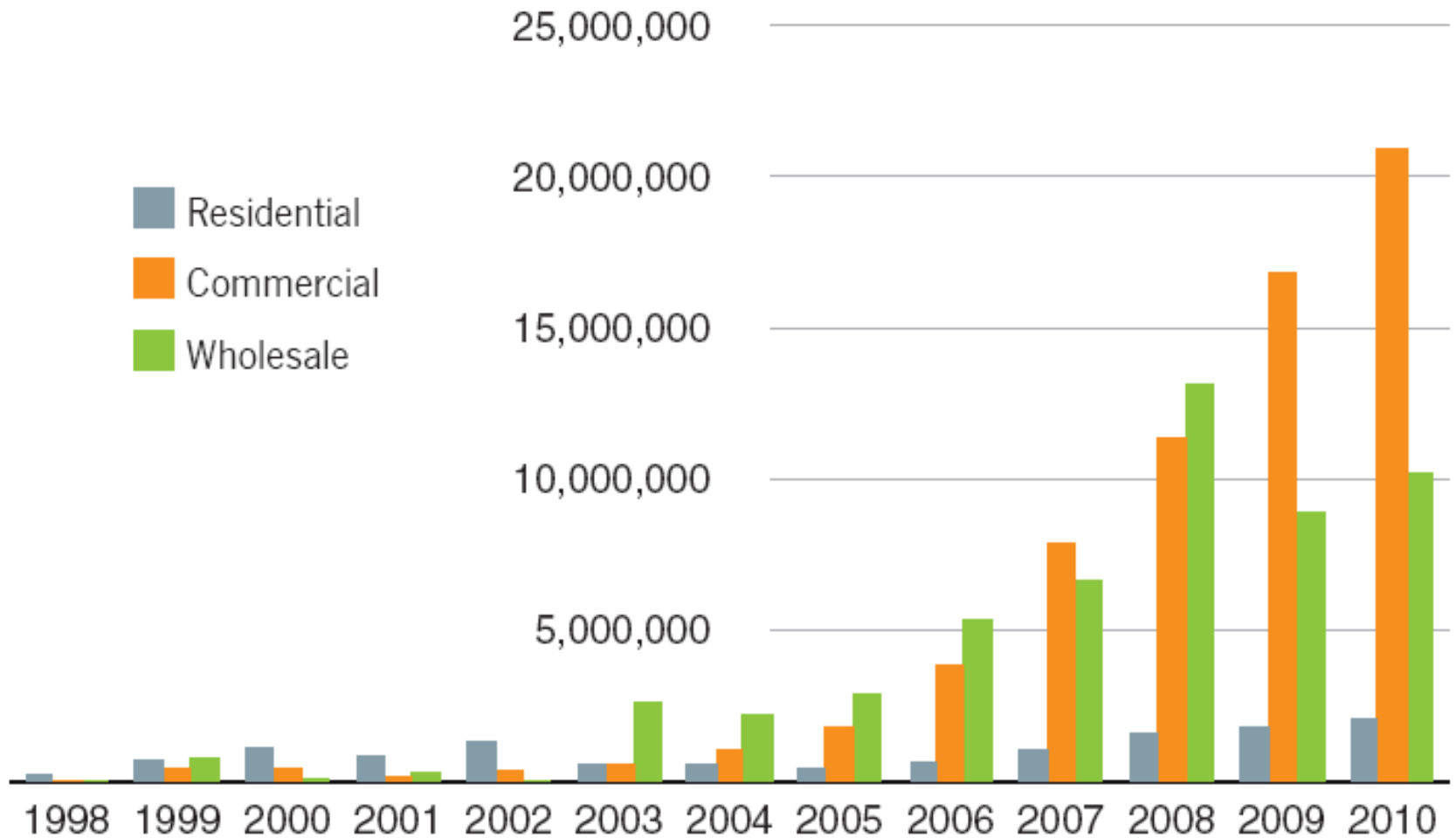
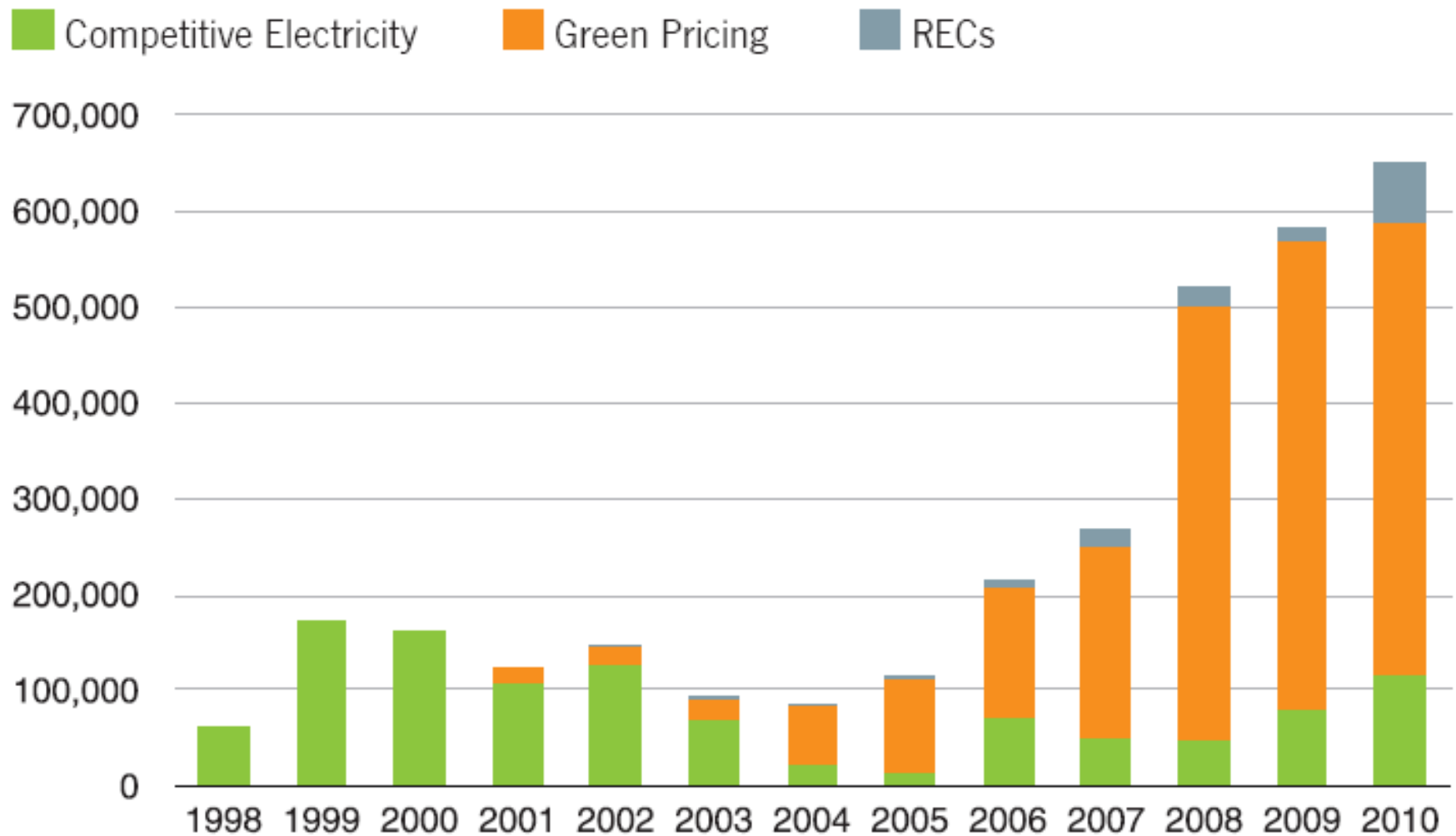


Figure 2 Green-e Energy Certified Sales by Customer Type, 1998–2010 (in MWh)



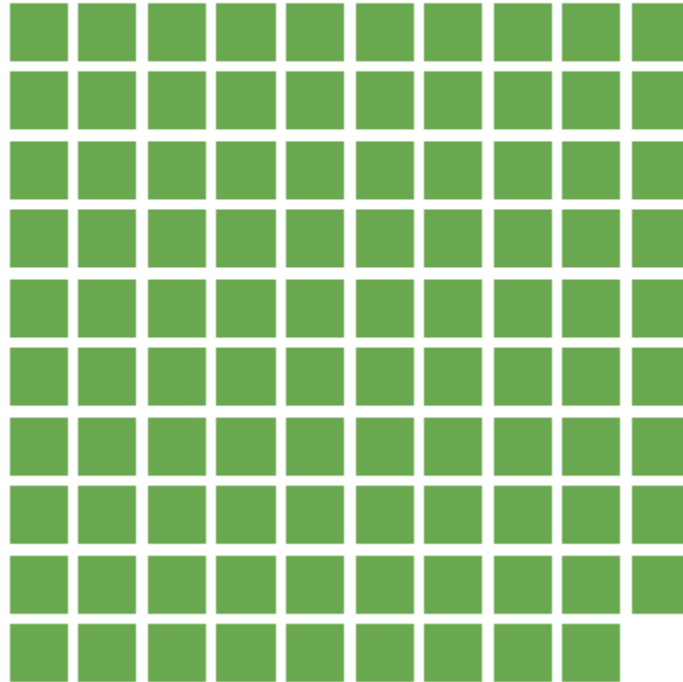
**Figure 3 Retail Customers Purchasing Green-e Energy by Product Type, 1998–2010 (number of customers)**



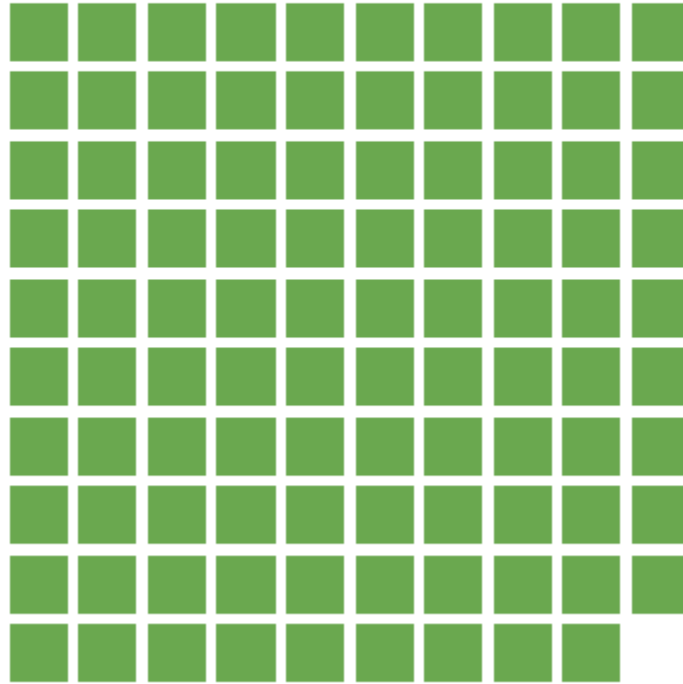
**Table 2 Total Green-e Energy Certified Sales of Renewable Energy by Product Type and Customer Type, 2010 (MWh, rounded)**

	Retail		Wholesale
	Residential	Commercial	
RECs	342,000	19,323,000	10,130,000
Green Pricing	1,508,000	1,152,000	0
Competitive Electricity	276,000	491,000	96,000
<b>Total Sales</b>	<b>2,126,000</b>	<b>20,967,000</b>	<b>10,226,000</b>
<b>Total Retail: 23,093,000 MWh</b> <b>Total Unique Certified: 27,563,000 MWh</b> <b>Total Certified Transactions: 33,319,000 MWh</b>			

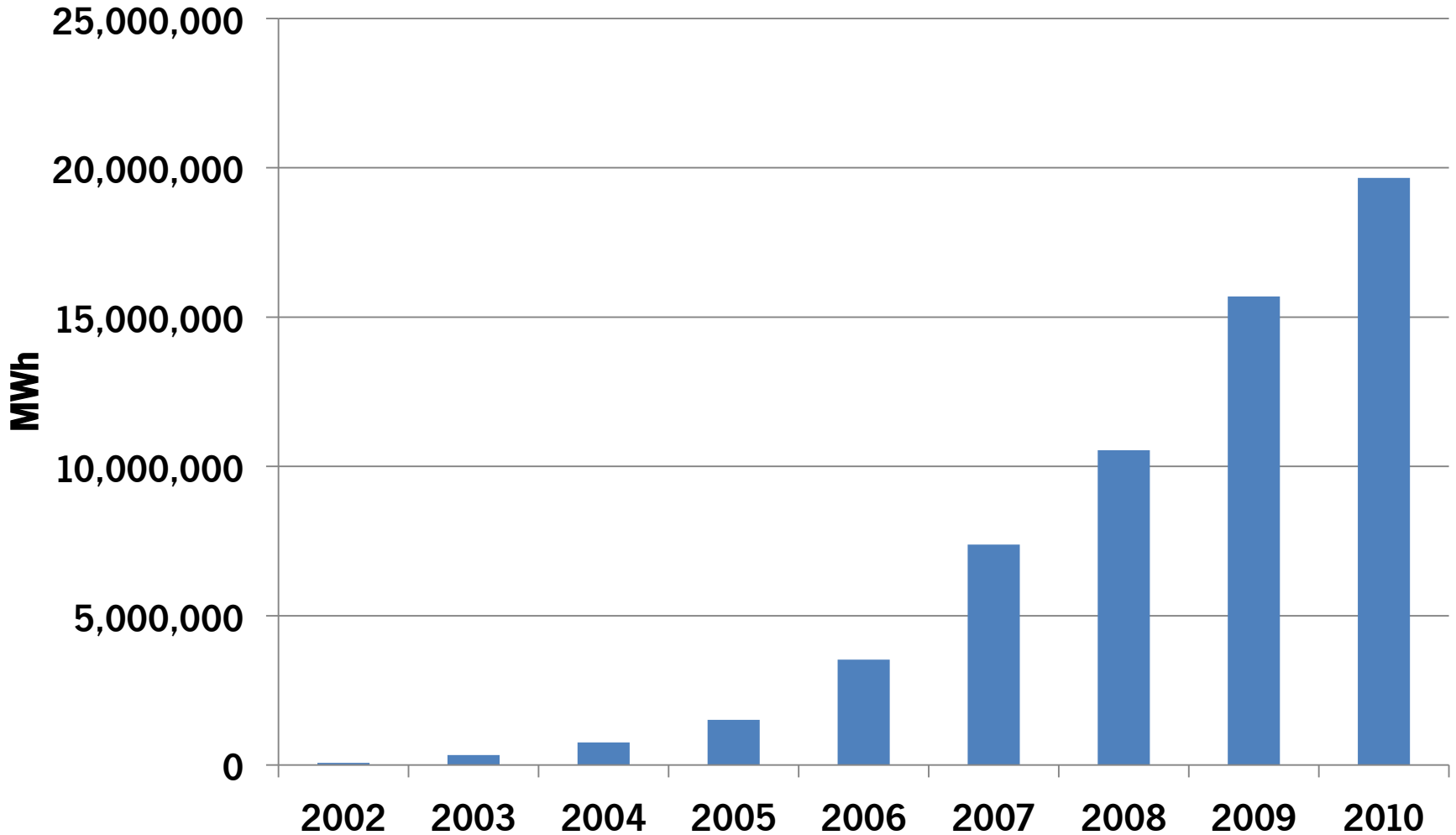
# 99%



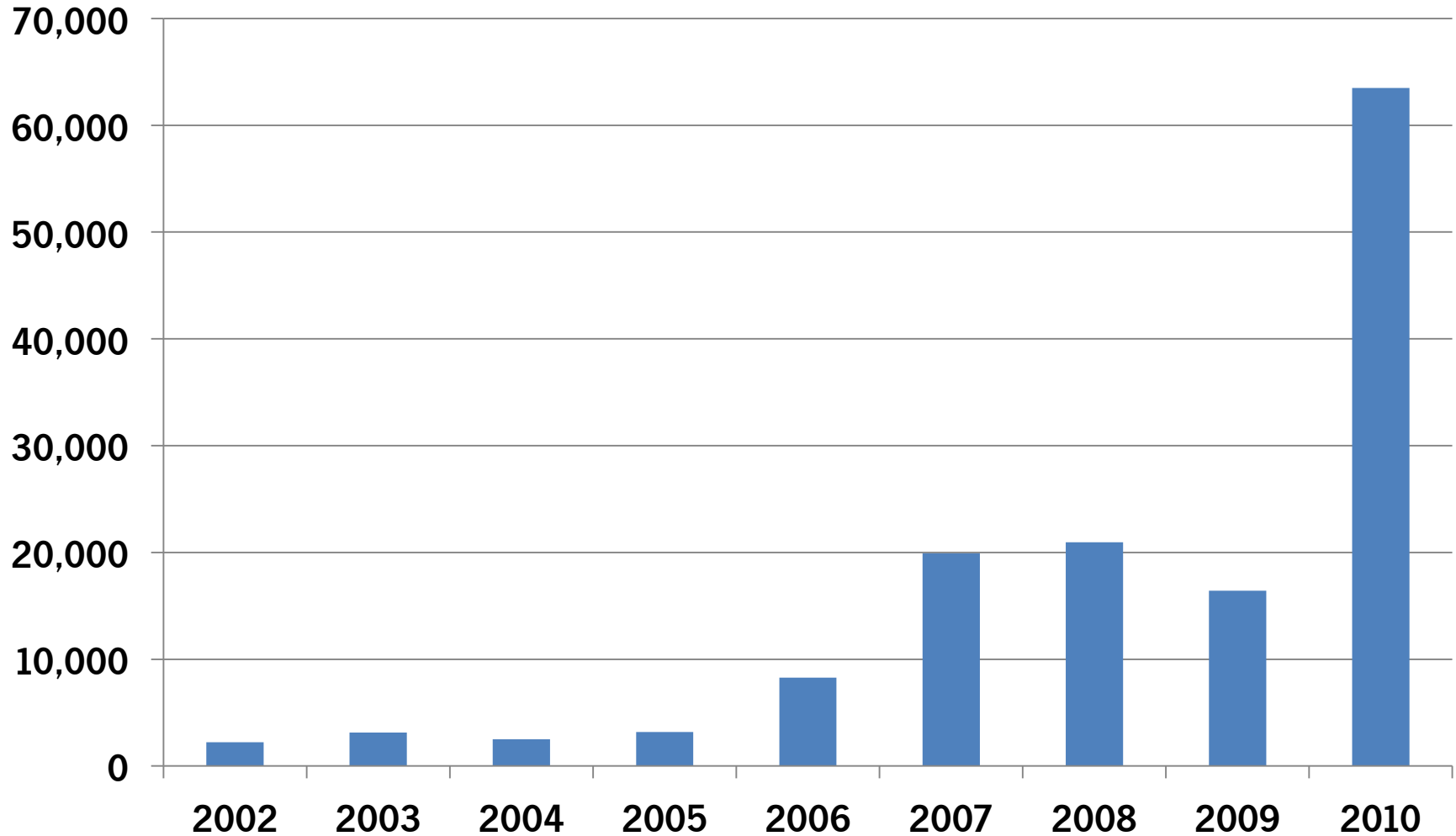
**99%** of Retail RECs  
are Green-e  
Energy Certified



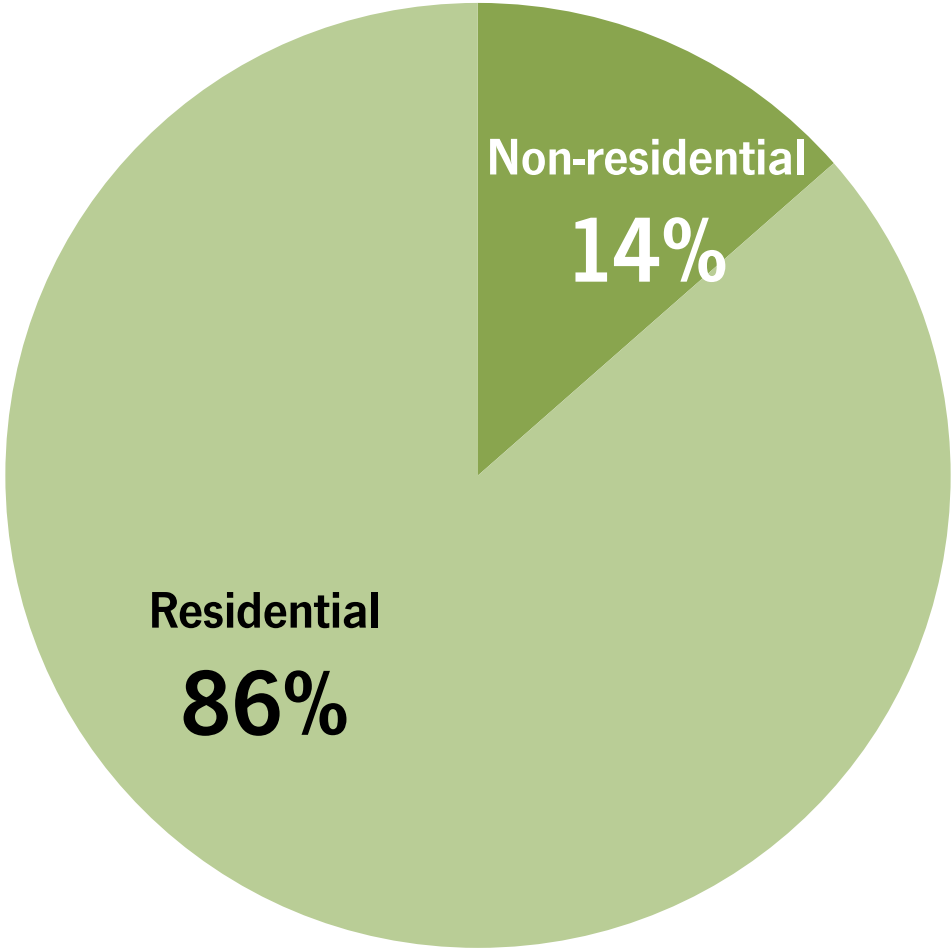
# Green-e Energy Certified Retail REC Sales (MWh)



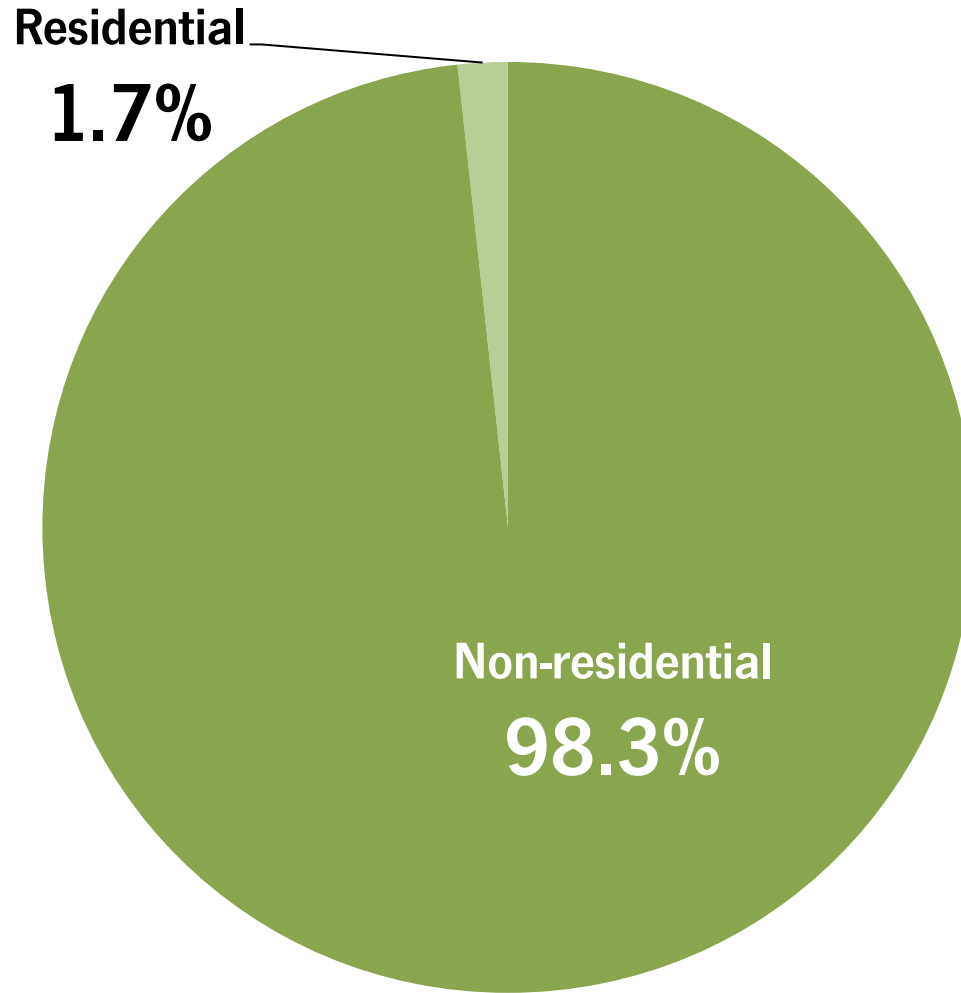
# Number of Customers Purchasing Green-e Energy Certified RECs



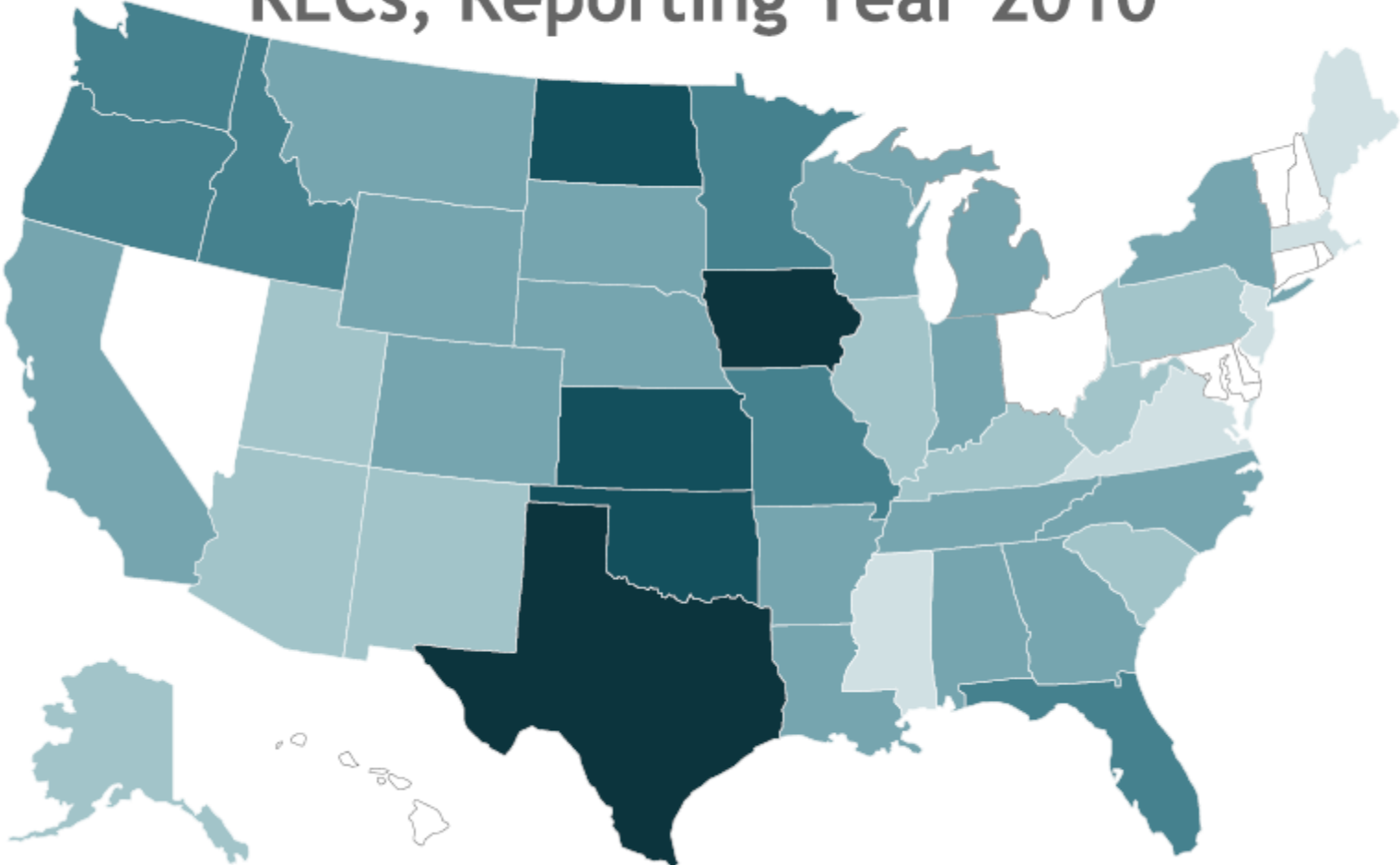
# Customers Purchasing Green-e Energy Certified RECs, 2010



# Green-e Energy Certified REC Sales (MWh), 2010



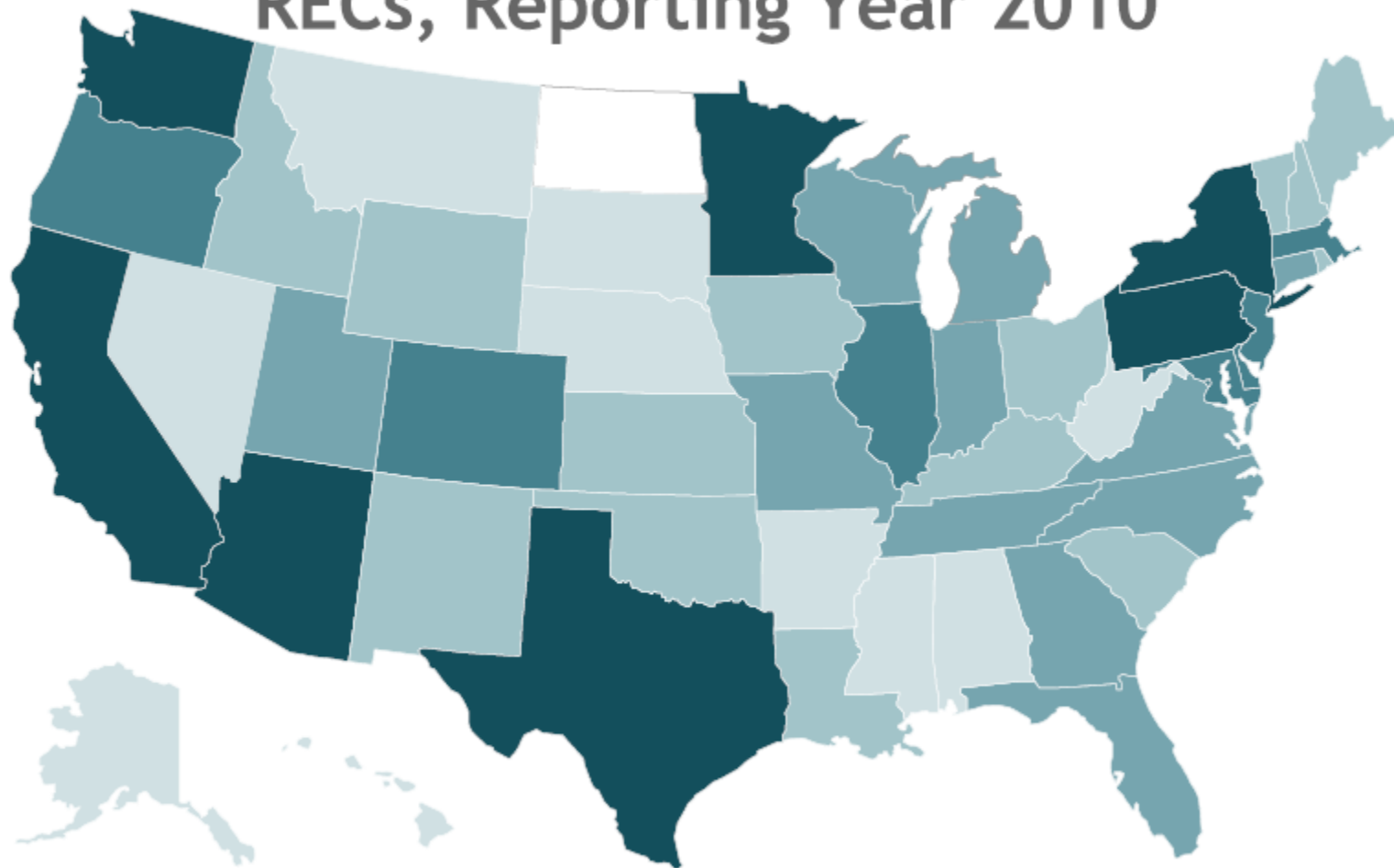
# SUPPLY: Green-e Energy Certified Retail RECs, Reporting Year 2010



number of MWh  
(thousands)



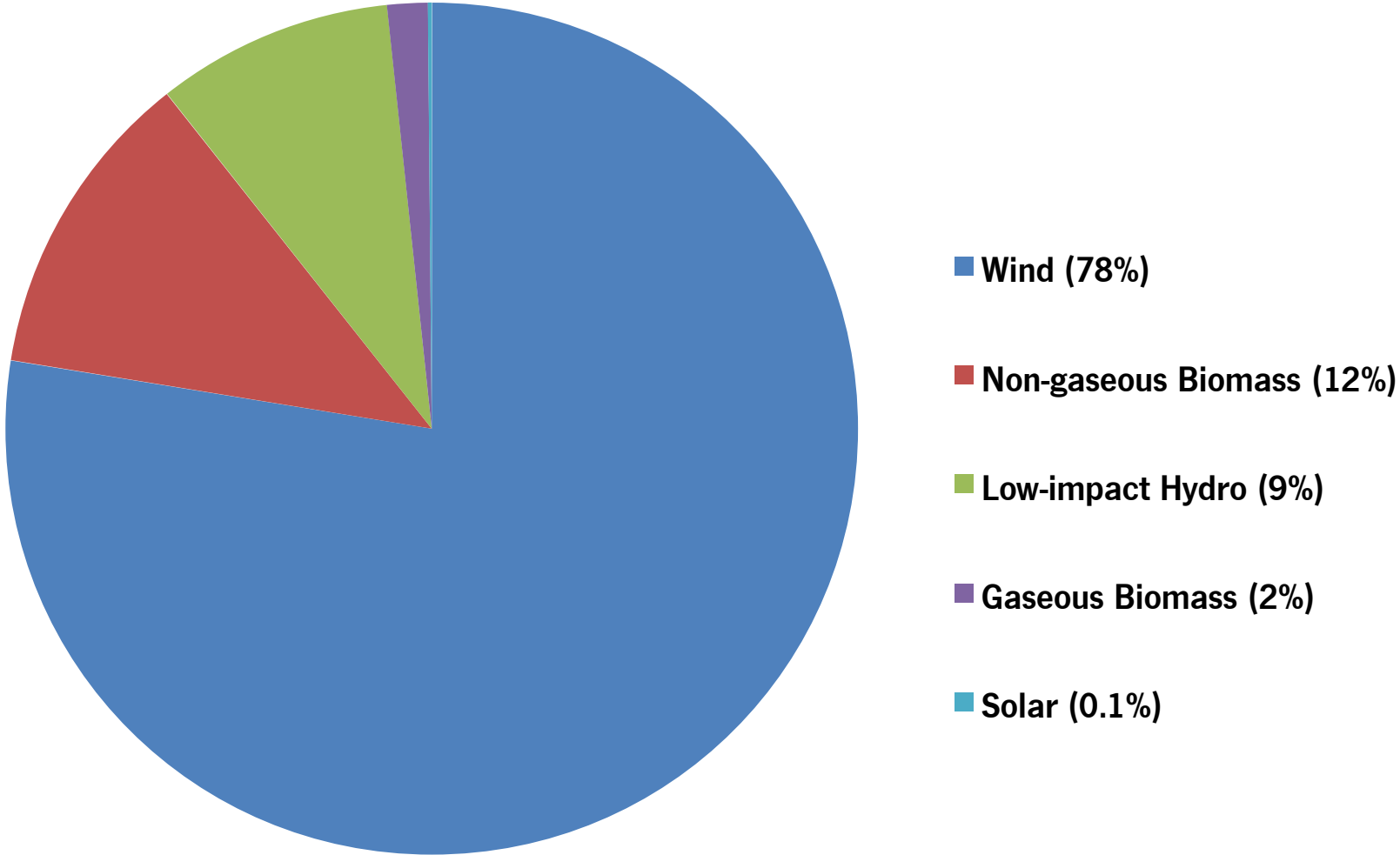
# SALES: Green-e Energy Certified Retail RECs, Reporting Year 2010



number of MWh  
(thousands)



# Contributions of Renewable Resource Types Sold in Retail Green-e Energy Certified REC Products, 2010



# CONTACT

**Rachael Terada**  
**Project Manager**  
**Center for Resource Solutions**  
**415-561-2135**  
**[rachael@resource-solutions.org](mailto:rachael@resource-solutions.org)**