



MCE Power Supply Statistics

December 6, 2022

OUR MISSION

Confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.

OUR VISION

Lead California to an equitable, clean, affordable, and reliable energy economy by serving as a model for community-based renewable energy, energy efficiency, and cutting-edge clean-tech products and programs.

37 Member Communities

**4 Bay Area
Counties**

**573,000
Accounts**

**1 million +
Customers**



MCE + City of Richmond

City of Richmond Snapshot

- **82.1%** enrolled in MCE service, **2.5%** enrolled in MCE's Deep Green 100% renewable service option and **7.6%** have solar on their home or business.
- **31%** enrolled in California Alternate Rates for Energy (CARE), which provides up to 35% monthly discount on electricity for qualified households.

Community Sponsorships and Collaborations

- Sponsored **City of Richmond's Juneteenth** event, **Drive Clean Bay Area** events, and programs with **Rich City Rides**, **Urban Tilth**, **Groundwork Richmond** and **Collaborising** for California Clean Air Coalition's Clean Air Day.
- Hosted **multifamily workshop** with APEN and SOMAH for HOAs, affordable housing developers and CBOs throughout Contra Costa County.
- **Virtual Power Plant (VPP)** Program launched: an opportunity for 42 small businesses, 4 large industrial customers, 10 zero net carbon homes, and 90 residential homes to participate and receive new equipment and technology.
- Working with city staff to advance Contra Costa Transportation Authority (CCTA) grant to advance EV charging opportunities in select zip codes.



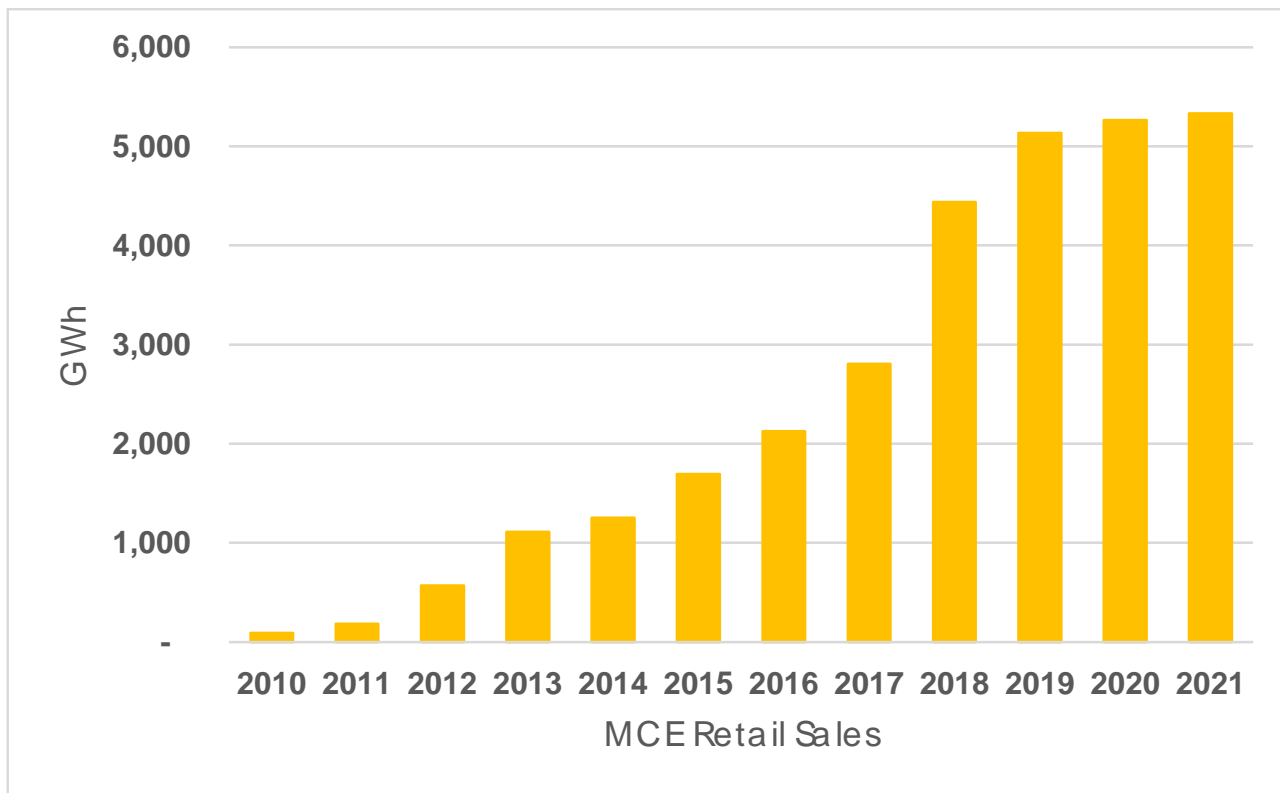
Key Drivers of Power Supply Statistics

- MCE's Integrated Resource Plan
- Actual vs. forecasted retail sales
- Actual vs. forecasted renewable energy production
- Variable hydrologic conditions
- Product availability: RPS & GHG-Free
- AB 1110 emission accounting methodology

MCE Planning & Procurement Process

- MCE's resource planning process utilizes a two-phased approach with attention given to:
 - **Clean-energy commitments**: resource commitments and open positions are evaluated in consideration of current IRP targets.
 - **Price risk mitigation/budgetary certainty**: resource commitments are evaluated in consideration of potential market price exposure and budgetary/rate impacts.
- Clean-energy purchases/sales are pursued to align resource commitments with IRP targets on a projected basis.
- Additional clean-energy purchases or sales may be executed throughout the year to balance commitments relative to needs.
- Certain contractual commitments are specifically executed to minimize MCE's exposure to market price volatility but may not impact power supply stats.

MCE Historical Retail Sales Growth



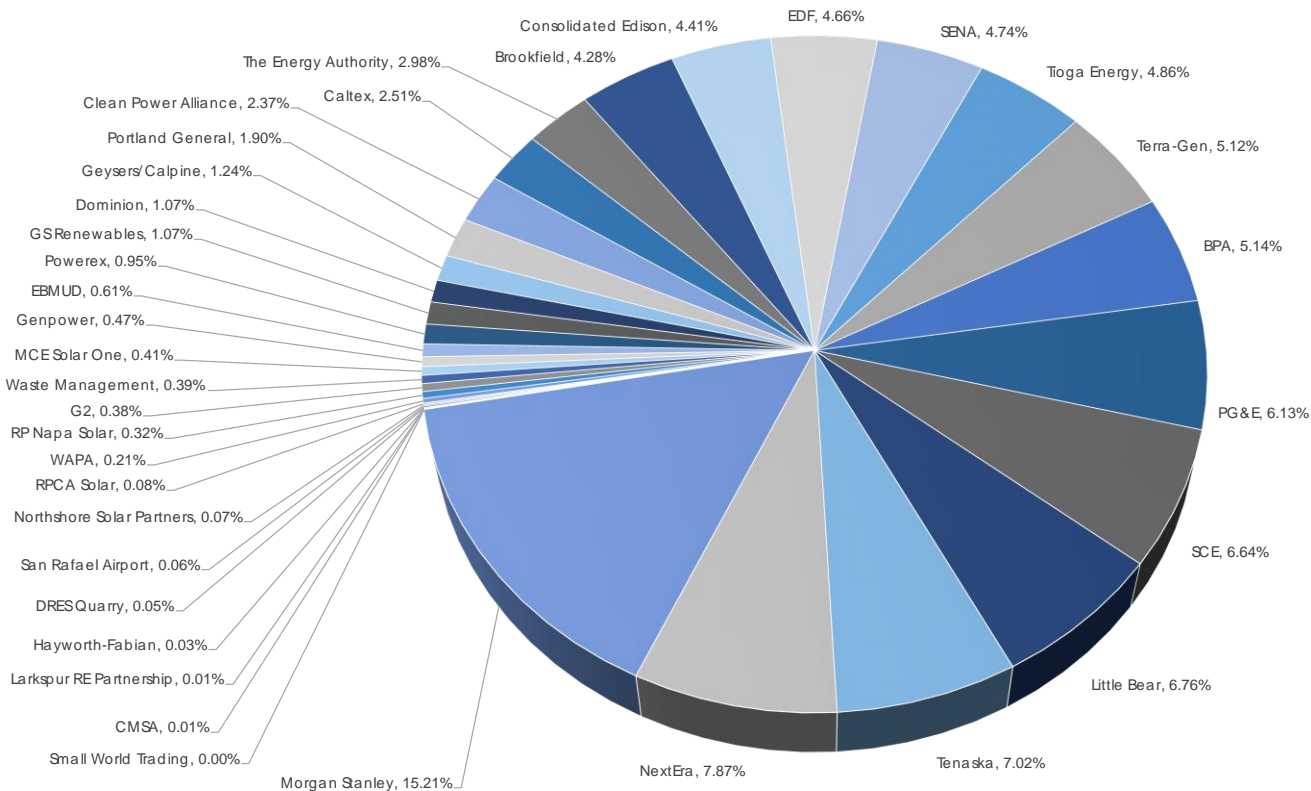
MCE 2021 Sales & Customer Snapshot

	% of Retail Sales	Retail Sales (MWh)	Customers (as of 12/31/2021)
MCE Light Green Total:	96.48%	5,145,607	534,982
Residential	49.54%	2,641,902	479,340
Non-Residential	46.95%	2,503,705	55,642
MCE Deep Green Total:	3.51%	187,021	12,058
Residential	1.41%	75,182	8,878
Non-Residential	2.10%	111,839	3,180
MCE Local Sol Total:	0.01%	578	223
Residential	0.01%	557	216
Non-Residential	0.00%	21	7
MCE Grand Total:	100.00%	5,333,206	547,263

- MCE's Peak Demand of ≈1,240 MW occurred on September 8, 2021, (Hour Ending 17)
 - 3.5% decrease in peak demand relative to 2020
 - Peak demand of ≈1,284 MW on September 7, 2020 (Hour Ending 18)
- MCE experienced a 1.3% increase in retail sales relative to 2020 (5,262,209 MWh)

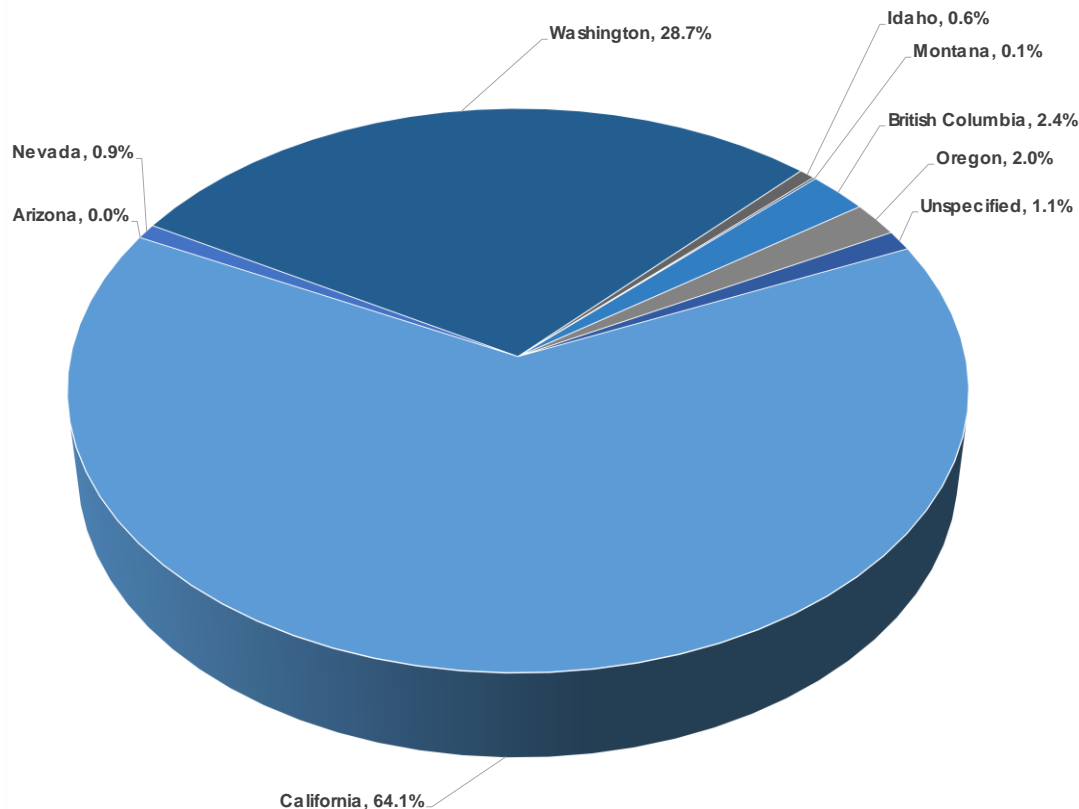
MCE 2021 Supplier Inventory

MCE received specified source energy products from ≈36 unique suppliers in 2021

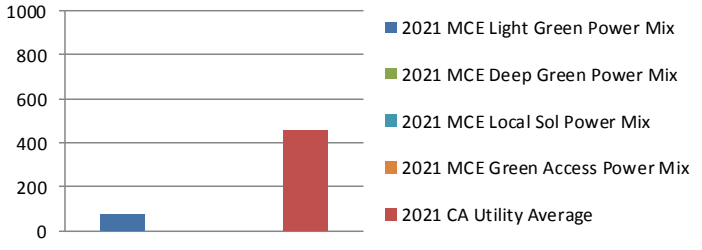


MCE 2021 Resource Locations

Over 95% of specified source power delivered from California and Pacific Northwest in 2021



MCE 2021 POWER CONTENT LABEL

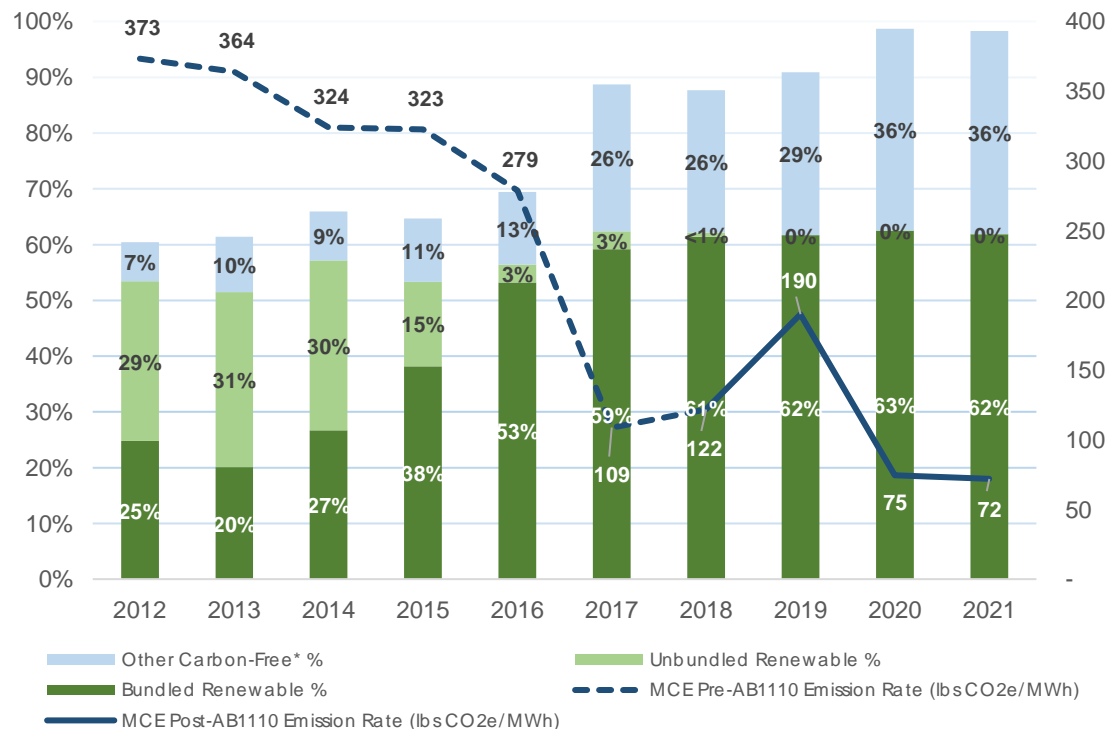
2021 POWER CONTENT LABEL										
MCE										
mceCleanEnergy.org/energy-sources										
Greenhouse Gas Emissions Intensity (lbs CO ₂ e/MWh)					Energy Resources	2021 MCE Light Green	2021 MCE Deep Green	2021 MCE Local Sol	2021 MCE Green Access	2021 CA Power Mix
2021MCE Light Green Power Mix	2021MCE Deep Green Power Mix	2021MCE Local Sol Power Mix	2021MCE Green Access Power Mix	2021CA Utility Average	Eligible Renewable ¹	60.5%	100.0%	100.0%	100.0%	33.6%
75	0	0	0	456	Biomass & Biowaste	6.1%	0.0%	0.0%	0.0%	2.3%
 <p>■ 2021 MCE Light Green Power Mix ■ 2021 MCE Deep Green Power Mix ■ 2021 MCE Local Sol Power Mix ■ 2021 MCE Green Access Power Mix ■ 2021 CA Utility Average</p>					Geothermal	5.6%	0.0%	0.0%	0.0%	4.8%
					Eligible Hydroelectric	1.4%	0.0%	0.0%	0.0%	1.0%
					Solar	31.3%	50.0%	100.0%	100.0%	14.2%
					Wind	16.0%	50.0%	0.0%	0.0%	11.4%
					Coal	0.0%	0.0%	0.0%	0.0%	3.0%
					Large Hydroelectric	36.8%	0.0%	0.0%	0.0%	9.2%
					Natural Gas	0.0%	0.0%	0.0%	0.0%	37.9%
					Nuclear	0.9%	0.0%	0.0%	0.0%	9.3%
					Other	0.1%	0.0%	0.0%	0.0%	0.2%
					Unspecified Power ²	1.7%	0.0%	0.0%	0.0%	6.8%
					TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%
Percentage of Retail Sales Covered by Retired Unbundled RECs ³ :						0%	0%	0%	0%	
¹ The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology. ² Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source. ³ Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.										
For specific information about this electricity portfolio, contact:						MCE 1 (888) 632-3674				
For general information about the Power Content Label, visit:						http://www.energy.ca.gov/pcl/				
For additional questions, please contact the California Energy Commission at:						Toll-free in California: 844-454-2906 Outside California: 916-653-0237				

2021: Statistical Highlights

- 98.3% Clean Energy = *RPS-eligible Renewable + Carbon-Free + ACS*
- 61.9% RPS-Eligible Renewable
 - 58.0% Bucket 1
 - 3.9% Bucket 2
 - **Zero Bucket 3**
- 35.5% Large Hydro*
- 0.9% Nuclear*
- 64.1% California-based supply
- 83.2% California-based renewables, as a % of total renewables
- Light Green Emission Factor (AB 1110): 75 lbs CO₂e/MWh (92% GHG-Free equiv.)

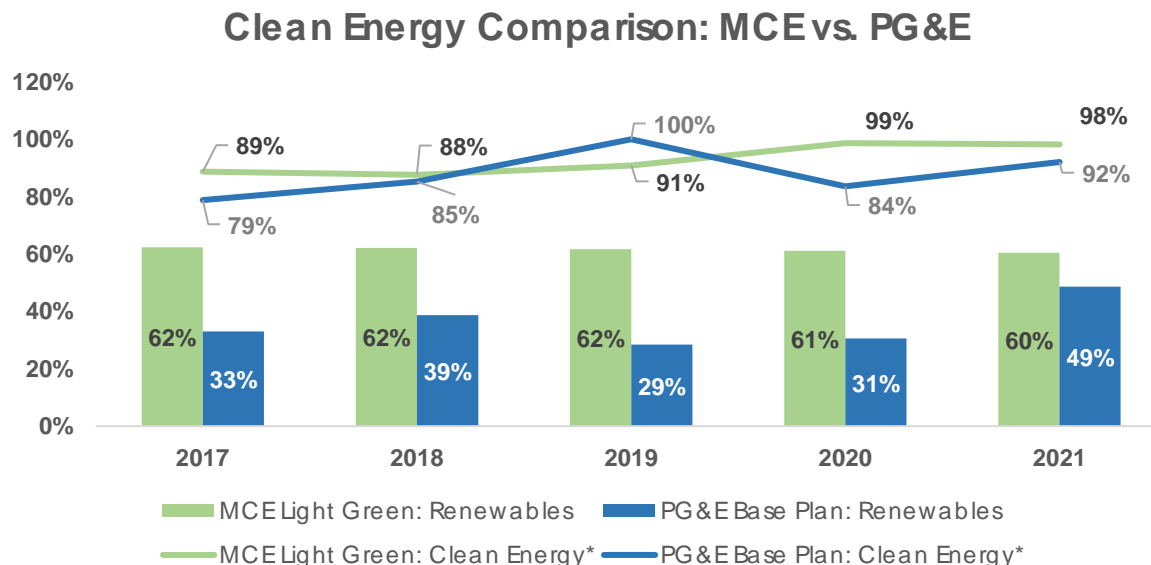
**Includes proportionate allocations from Asset Controlling Supply purchases*

MCE Historical Power Content (2012-2021)



*Includes energy delivered by large hydroelectric generators and Asset Controlling Suppliers

MCE & PG&E Five-Year Portfolio Summary



*Includes eligible renewable, large hydro and nuclear power sources

PG&E's Base Plan power portfolio included **39.3% nuclear energy**

PG&E's Base Plan Emission Factor = 89 lbs CO₂e/MWh (MCE Light Green Emission Factor = 75 lbs CO₂e/MWh)

2017-2021 Source Data: Annual Power Source Disclosure Reports, as provided by the CEC, and related Power Content Labels

Other Considerations

- Renewable and Carbon-free energy supply
 - PG&E Hydro Allocations
 - Ongoing drought conditions have created supply constraints and uncertainty regarding future resource availability
 - CPUC Procurement mandates
 - Increased competition amongst CCA buyers
 - Supply constraints have resulted in sustained price increases
- Evolving resource mix/requirements
 - Hourly portfolio balancing
 - Promoting reliability within a substantially carbon-free supply portfolio

Thank You

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