Member Generation: Rate Analysis

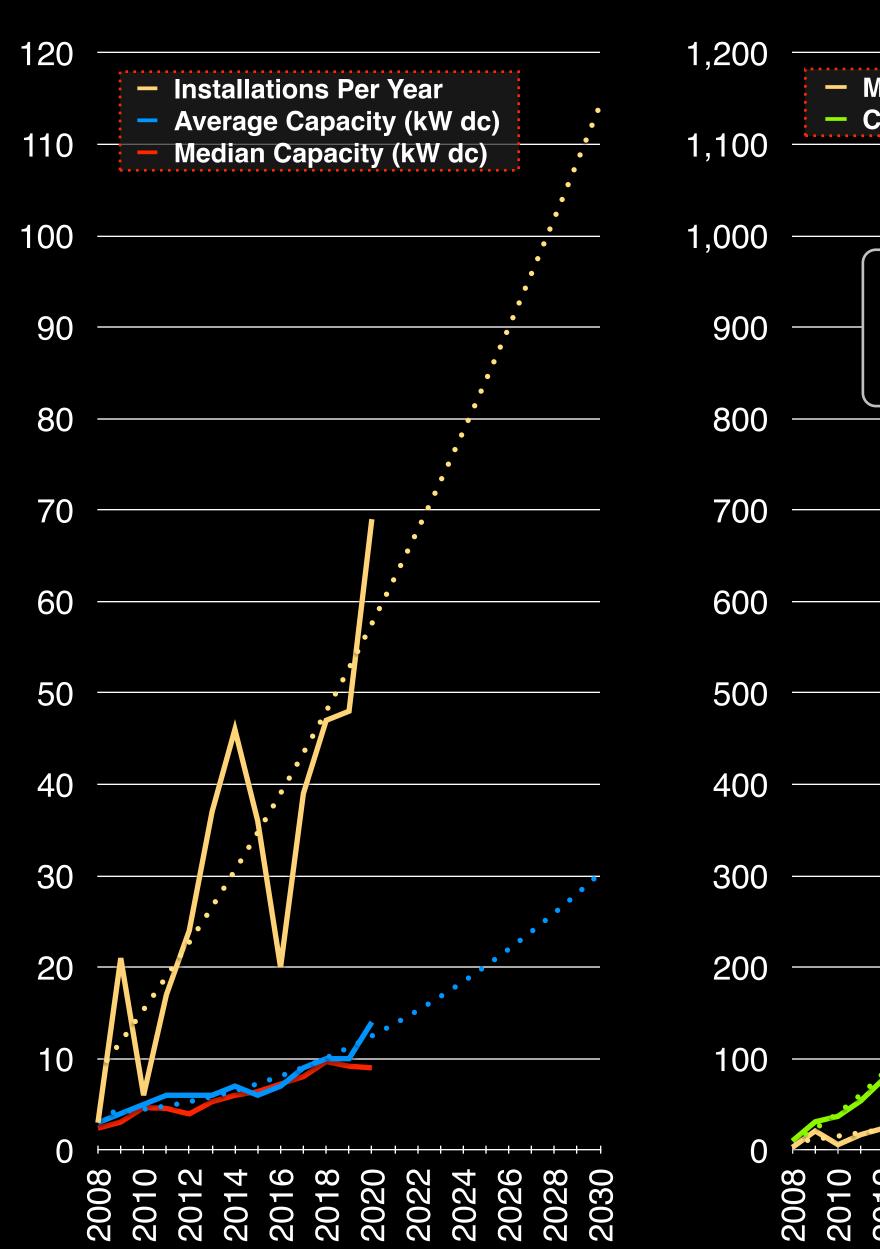
OPALCO

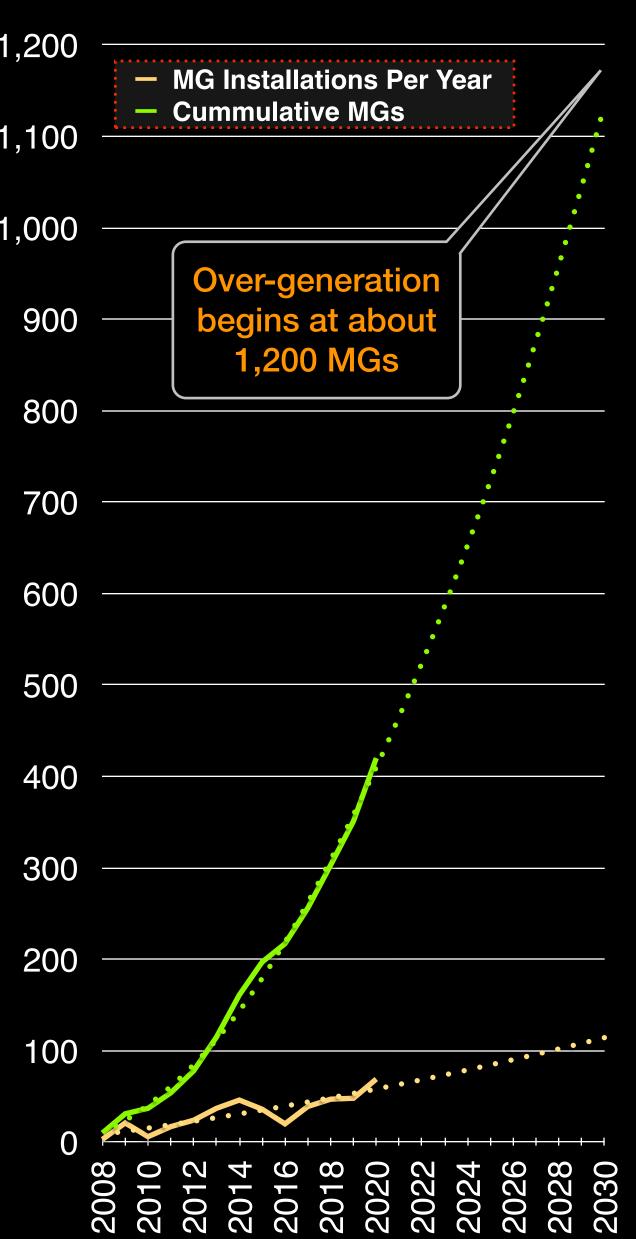
Board Meeting September 2021

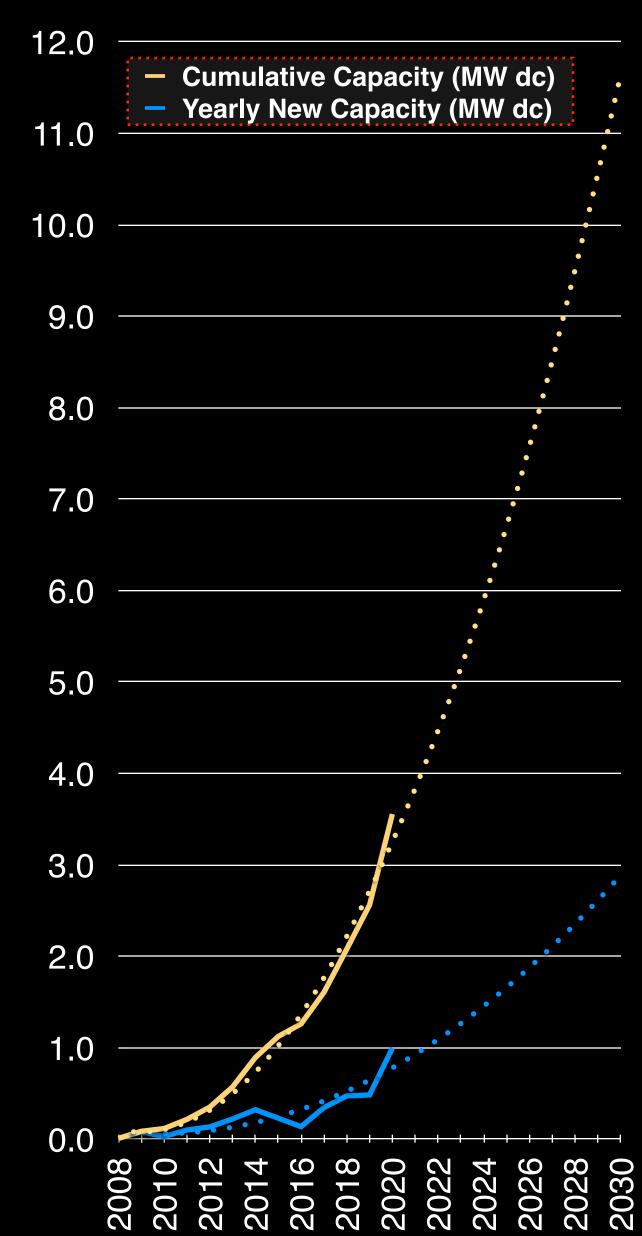
Rates Review: Timeline

May 2021	Member generation trends and modeling			
June	Internal staff review			
August	Guernsey review of alternatives			
September	Impact on co-op members (low-income, low-use, high-use, etc.)			
Late September	Solar Town Hall - member feedback			
October	Rate Options Review			
November	Budget and 2022 Rate Proposal (first read)			
December	2022 Rate Structure (second read), 1/2022 rate implementation			
January	Rate implementation			

OPALCO Member Generation Trends: Installations, Capacity, Production

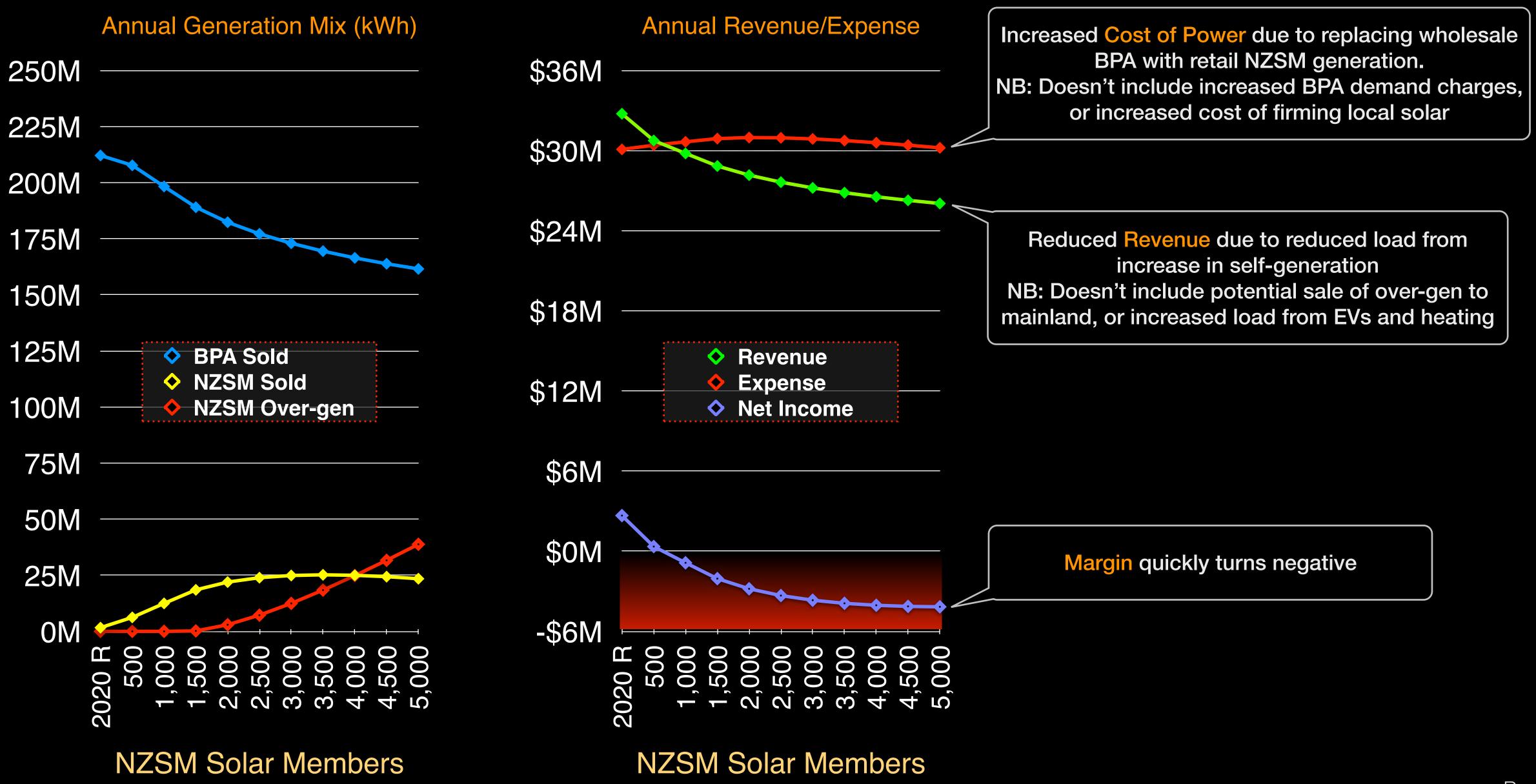






13.2 MWh AC Production in 2030
From 12 MW dc of total member generation capacity
Average 30 kW dc per installation

Impact on Financials: Reduced Revenue, Increased Expense



Billed Versus Actual Cost as a % of Total Cost

Typical OPALCO Residential Bill

> Usage Charge

top heavy leads to over charging in cold winters and undercharging in warm winters

> Facility Charge



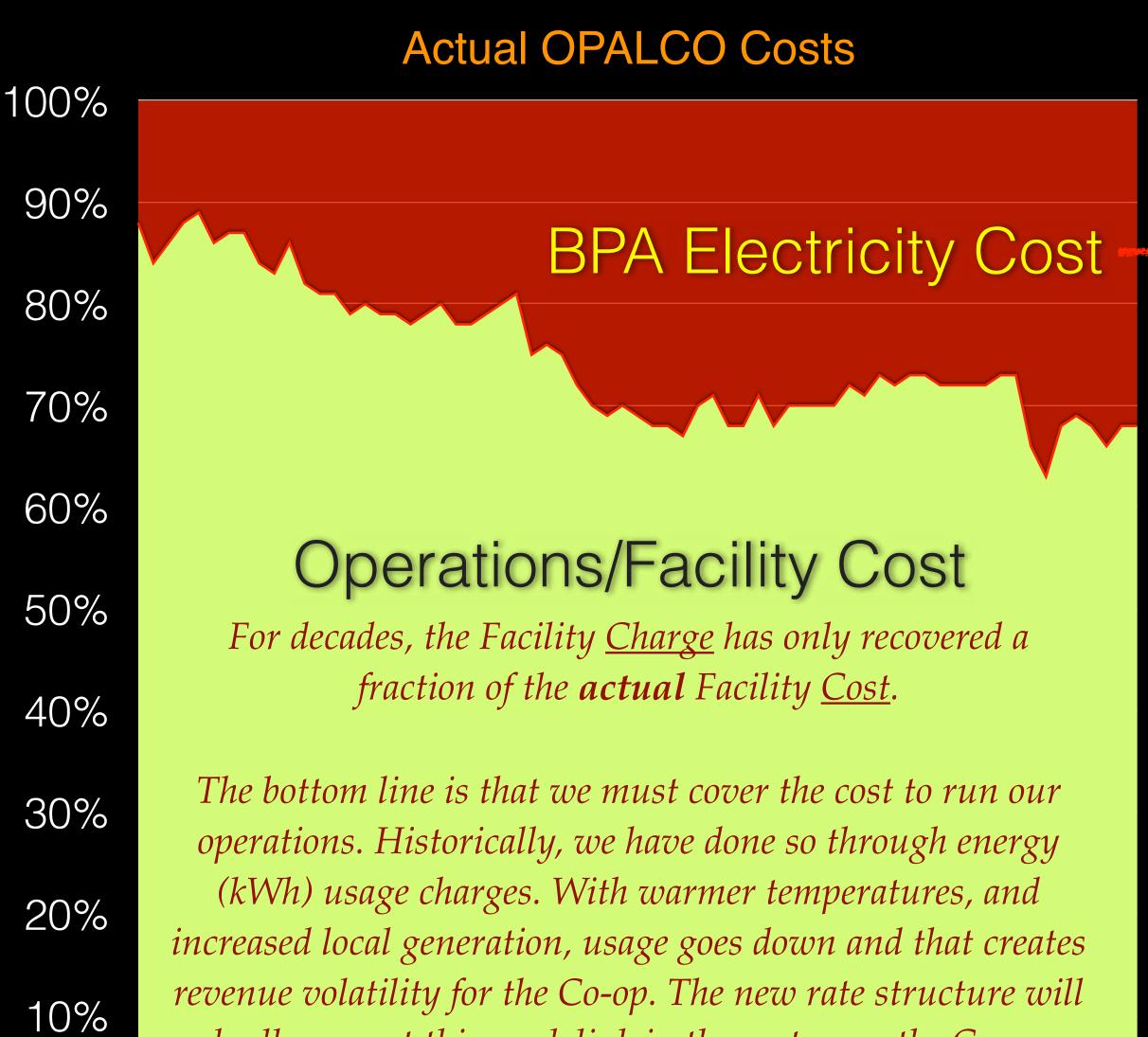
0%

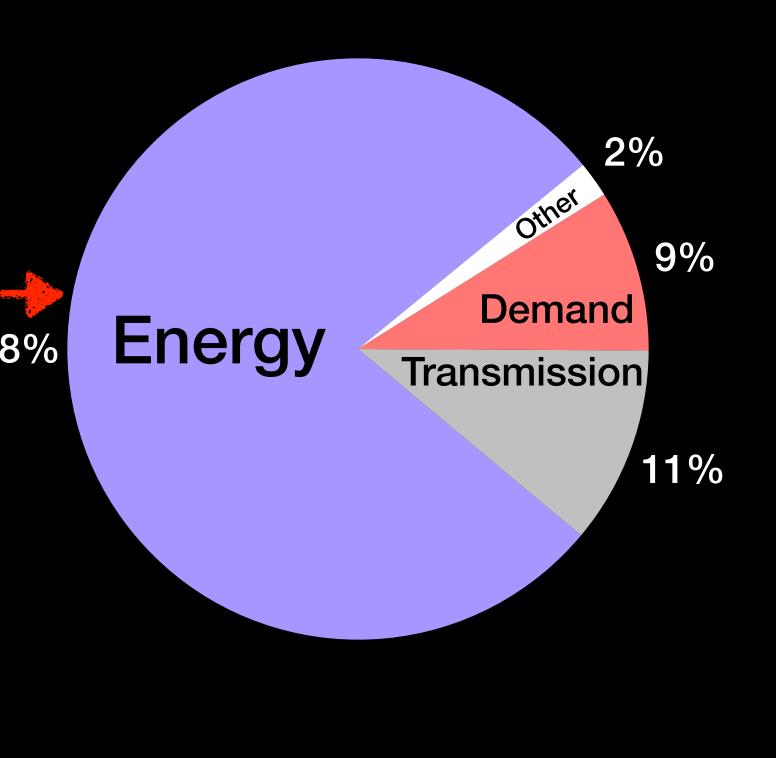
954

996

096

972





revenue volatility for the Co-op. The new rate structure will gradually correct this weak link in the system so the Co-op can sustain the level of electric service that members demand.

984

066

978

1996

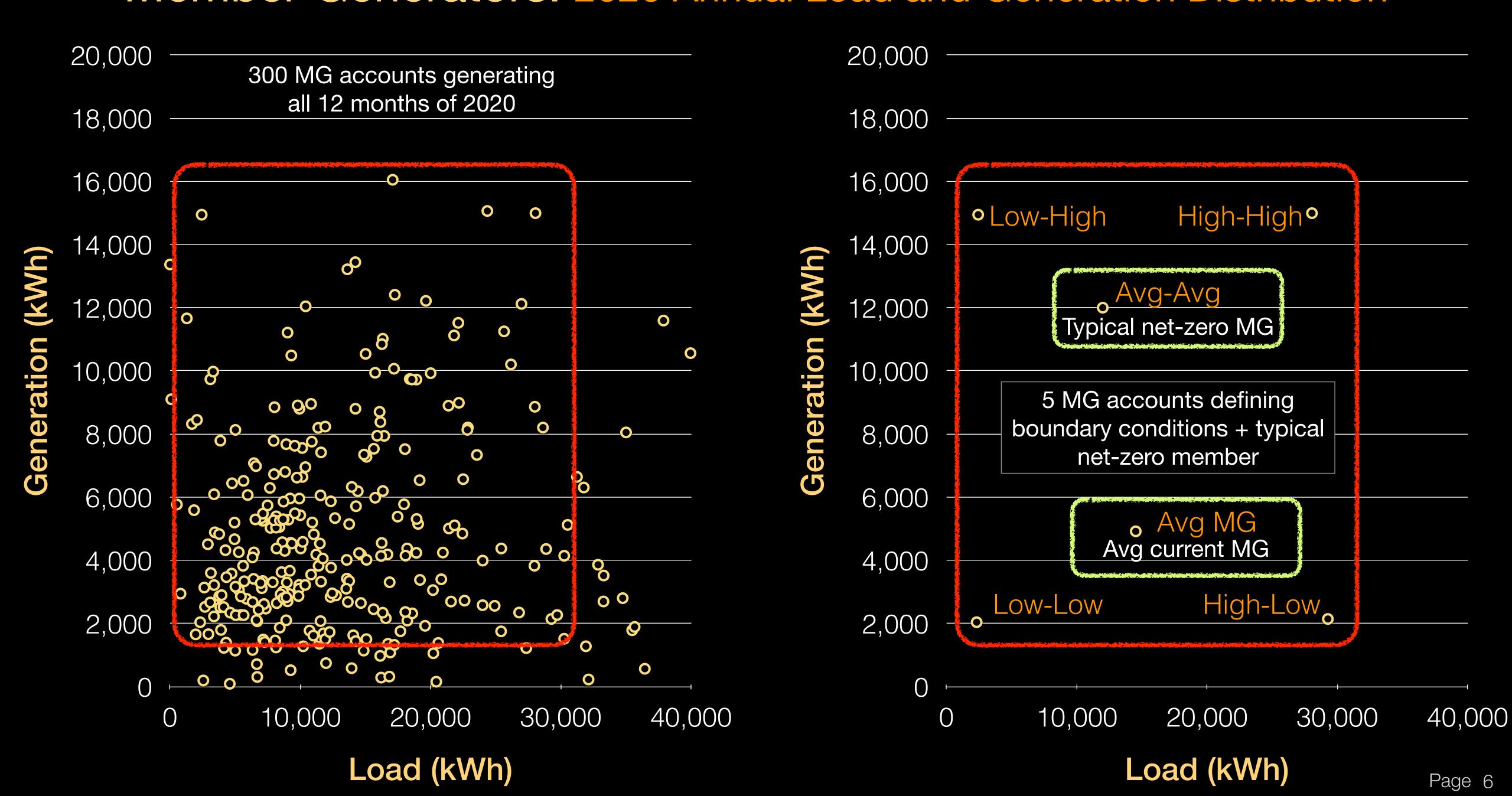
2002

2008

2014

2020

Member Generators: 2020 Annual Load and Generation Distribution



Example Residential MG Average Monthly Billing Comparison

Using 2020 reference load and generation for four boundary MG + NZSM examples

Consumption kWh Rate at Block 1 (power in)

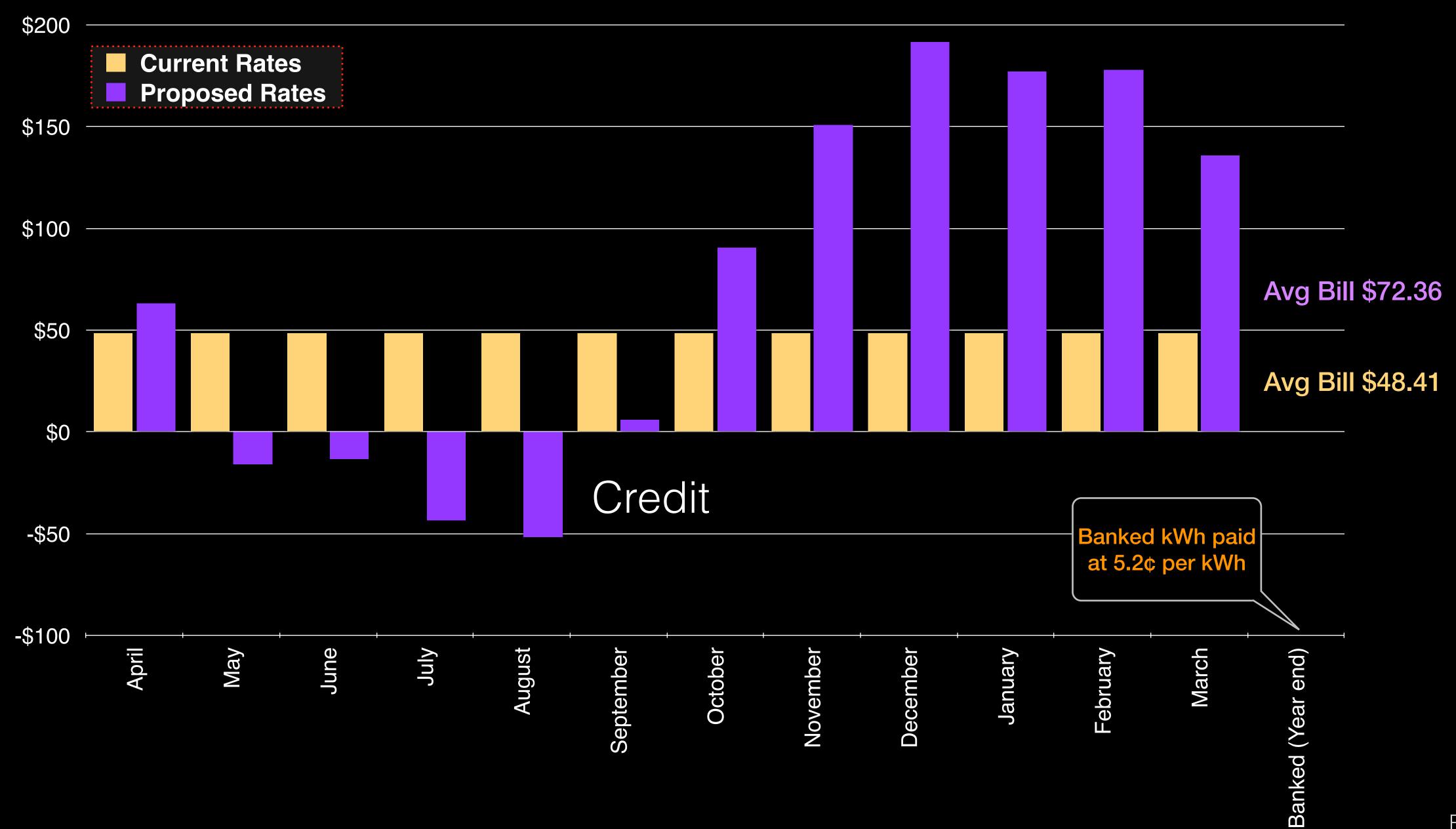
- + 4.7049¢ Purchased Power In Cost
- + 6.1851¢ Grid Access In Cost
- = 10.8900¢ Cost per kWh

Production kWh Rate (power out)

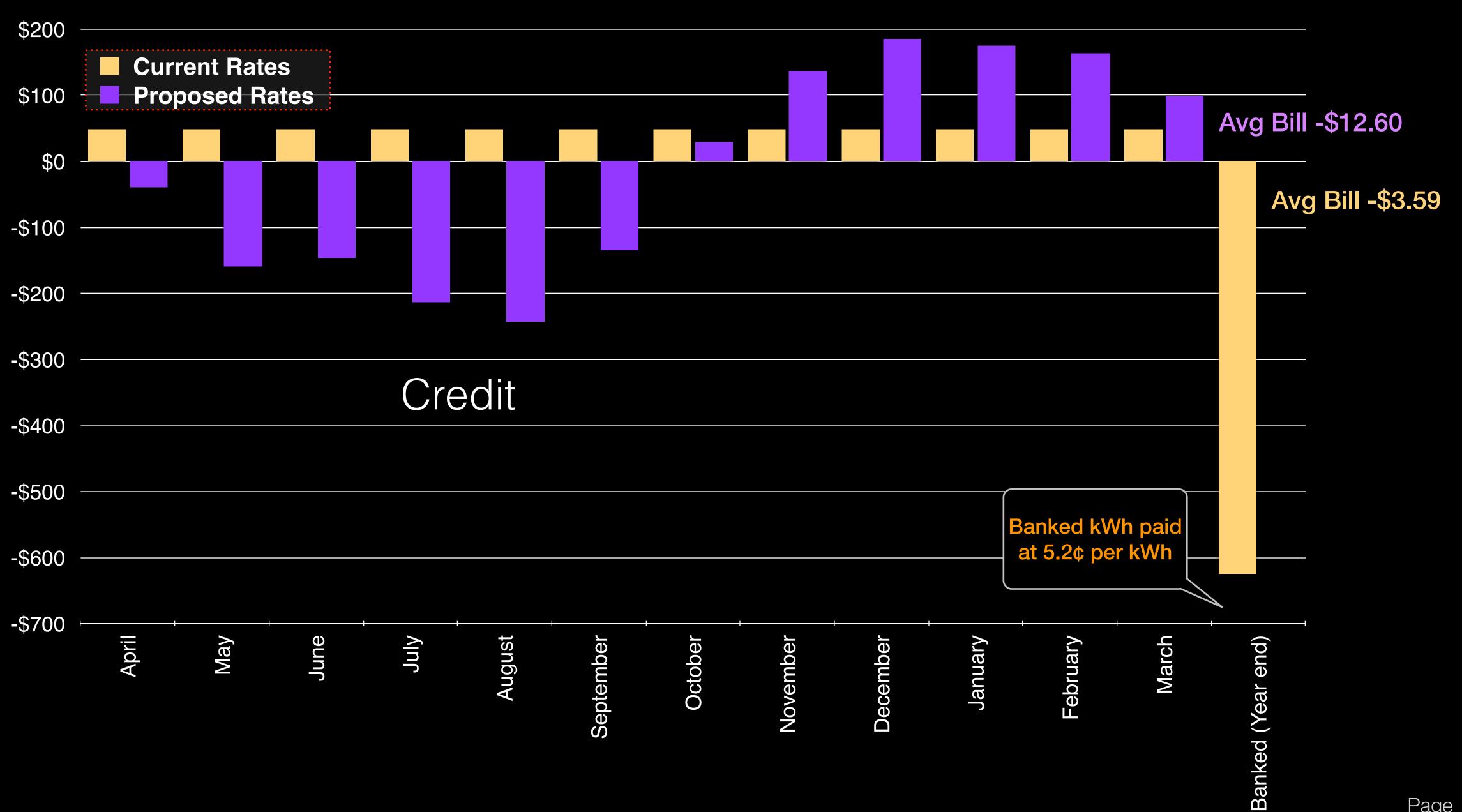
- + 4.7049¢ Purchased Power Out Credit
- 1.0297¢ Grid Access Out Cost
- + 4.8200¢ Grid Access Out Credit
- = 8.4952¢ Credit per kWh

	Load (kWh/yr)	Generation (kWh/yr)	Current Non-MG Bill	Proposed Non-MG Bill	Current Member Generator Bill	Proposed Member Generator Bill	MG Bill Variance	\$/kWh Load
Avg MG	14,534	4,918	\$180.31	\$180.31	\$135.68	\$145.49	\$9.81	\$0.010
	2,321	2,040	\$69.47	\$69.47	\$50.96	\$55.03	\$4.07	\$0.285
	12,000	12,000	\$157.31	\$157.31	\$48.41	\$72.36	\$23.95	\$0.073
	29,280	2,143	\$314.42	\$314.42	\$294.68	\$299.25	\$4.57	\$0.123
	28,060	14,993	\$303.18	\$303.18	\$166.99	\$197.04	\$30.05	\$0.085
	2,437	14,944	\$70.53	\$70.53	-\$6.00	-\$35.62	-\$29.62	-\$0.028

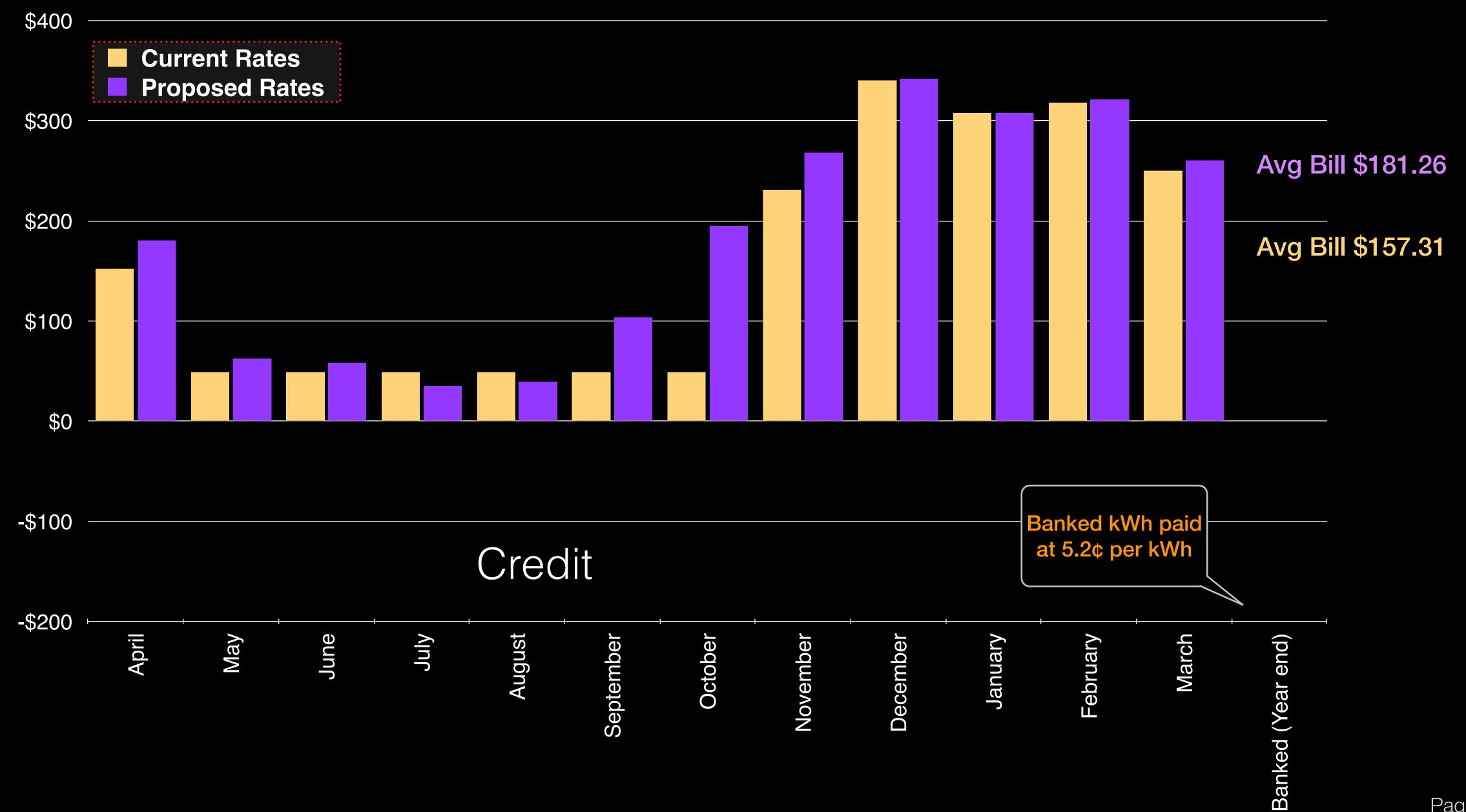
OPALCO MG Typical Monthly Billing: Avg 1,000 kWh Net-Zero MG



OPALCO MG Typical Monthly Billing: Avg 1,000 kWh Load, 2,000 kWh Gen



OPALCO MG Typical Monthly Billing: Avg 2,000 kWh Load, 1,000 kWh Gen



Discussion

Thank You!