

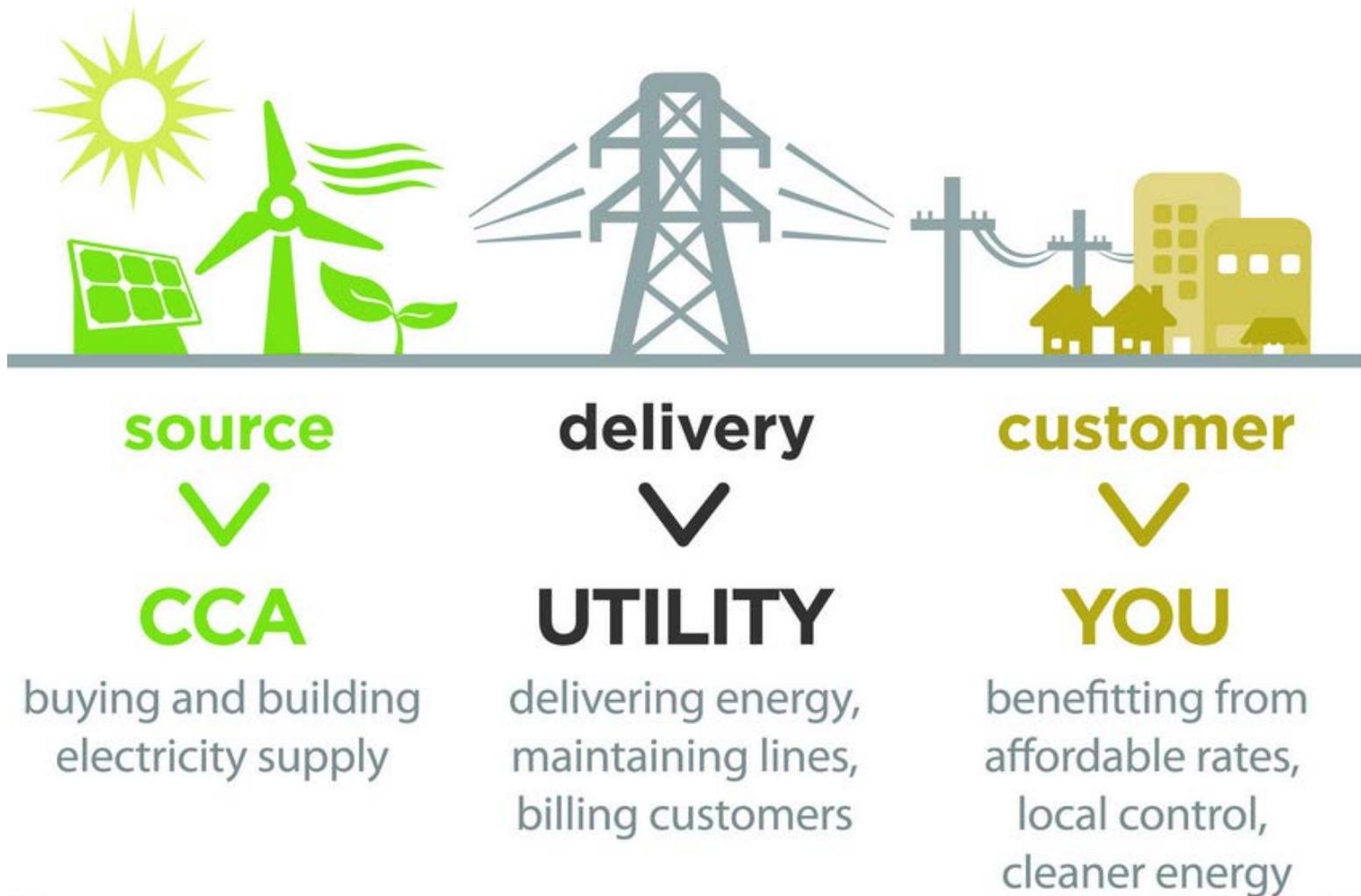
CLIMATE ACTION COMMISSION

Community Choice Aggregation Overview

July 19, 2017



How Local Energy Aggregation Works

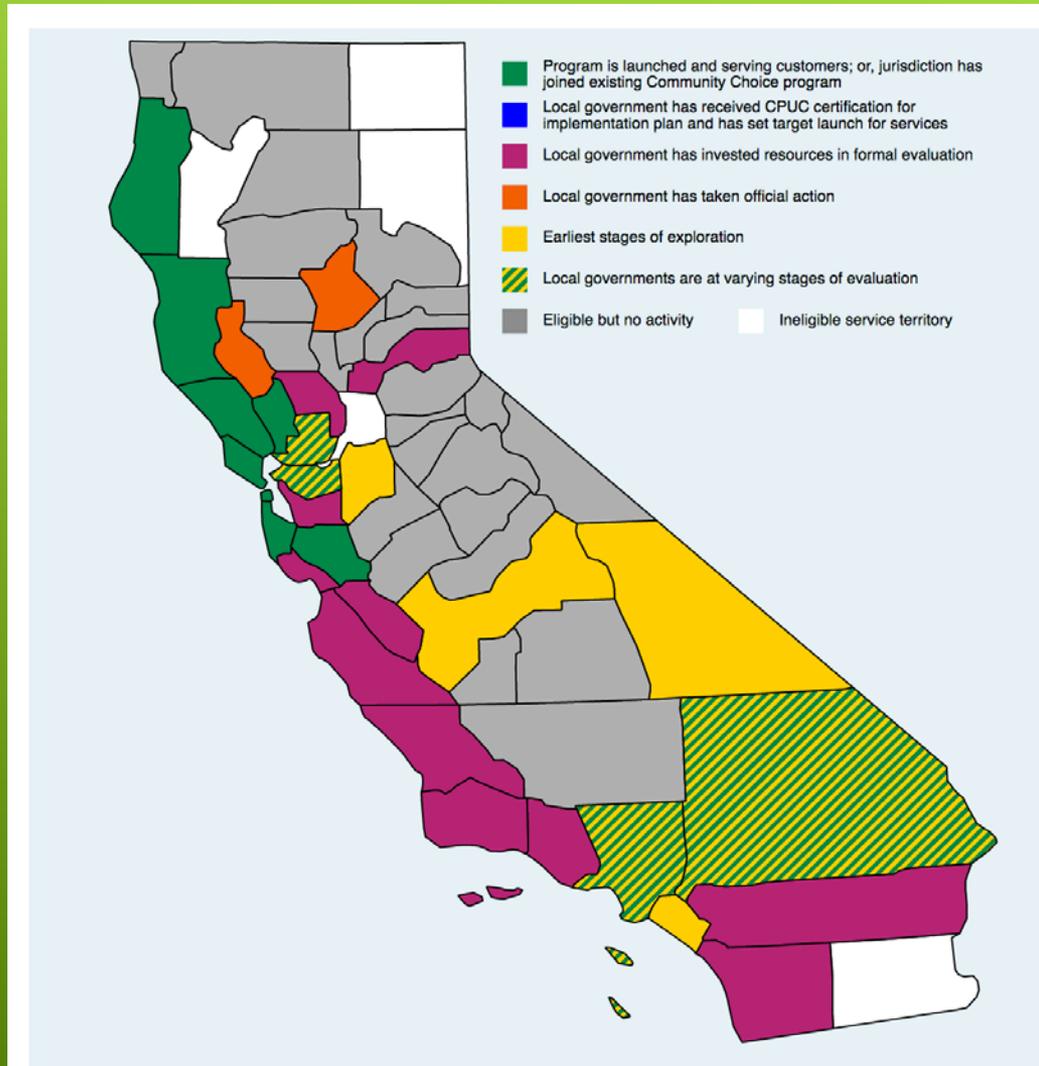


HISTORY OF CCA

- 2002 - AB 117
- 2012 – 1st CCA Launch
 - Marin Clean Energy (MCE)
- 8 CCAs currently in operation
- Many more in various stages of implementation



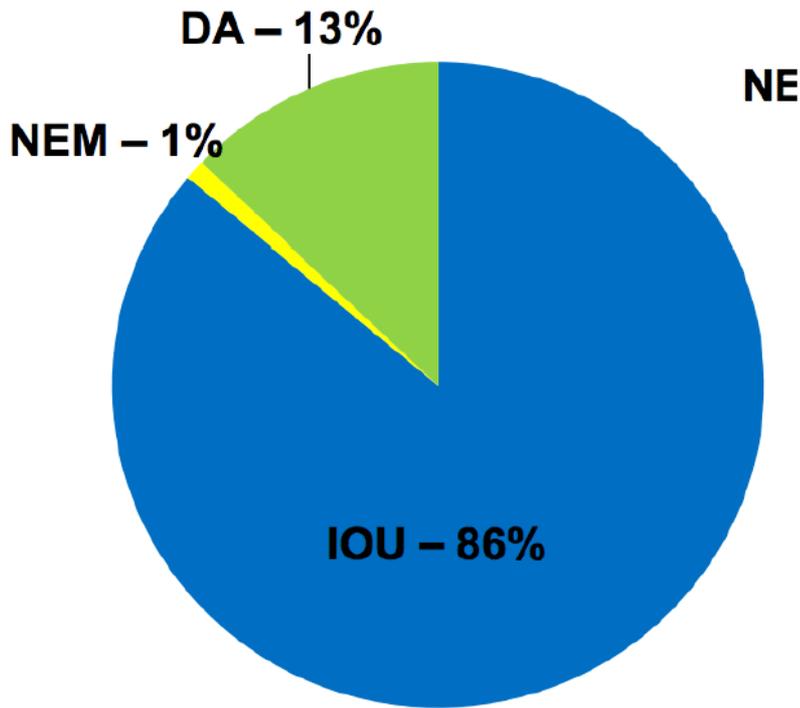
CCA ACTIVITY IN CALIFORNIA



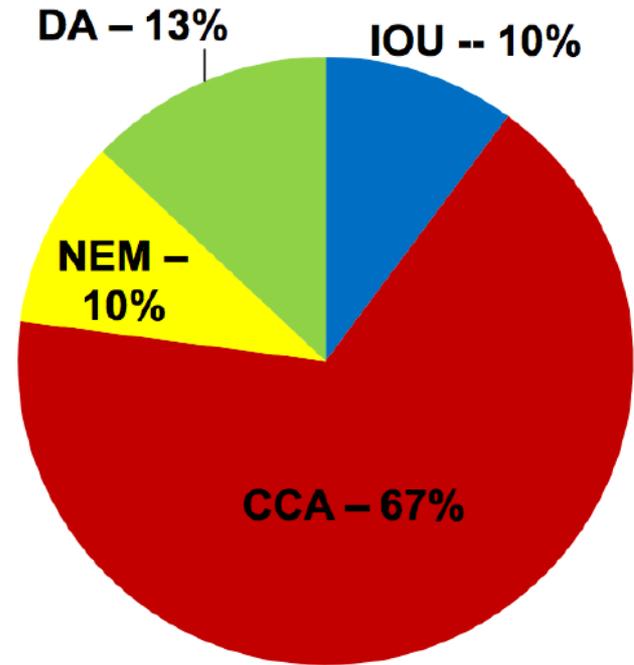
Source: WWW.CleanPowerExchange.org



IOUs WILL HAVE 10% OF THE MARKET IN 2020



2010: retail market



2020: future of retail market?

BENEFITS OF CCA

- Customer Choice
- Increase in Renewable Energy
- Local Control
 - Rate Setting
 - Energy Products
 - Programs
- New Revenue Stream
- Revenue Stays Local



RISKS

- ▶ Customer Participation
- ▶ Cost of Energy
- ▶ Regulatory Compliance
- ▶ Financial Exposure



CCA IMPLEMENTATION PROCESS



GOVERNANCE STRUCTURES

JPA Model

MCE

Sonoma Clean Power

Peninsula Clean Energy

Redwood Coast Energy

Silicon Valley Clean Energy

LA County CCE

Monterey Bay Community Power

Enterprise model

Solana Beach CCA

Apple Valley Choice Energy

CleanPowerSF

Hybrid JPA

Lancaster Choice Energy

PRIME (Pico Rivera)

San Jacinto Power

Many more emerging CCAs in various forms of evaluation/implementation across California



COMPARISON OF STRUCTURES

	JPA	Enterprise	Hybrid JPA
Rate Setting	1 Vote	Full Control	Full Control
Revenue Control	1 Vote	Full Control	Full Control
RPS Decisions	1 Vote	Full Control	Full Control
Operating Risk	None	Full Risk	Shared Risk
Program Control	1 Vote	Full Control	Full Control
Administrative Costs	None	Full Cost	Shared Cost



RENEWABLE ENERGY COMPARISON

CCA	Default Product		IOU	Default Product
MCE	52%		PG&E	30%
Lancaster Choice Energy	35%		SCE	25%
Sonoma Clean Power	36%		SDG&E	35%

Source: 2015 California Energy
Commission Power Content Labels



RESIDENTIAL RATE COMPARISONS

	SCE 25% Renewable	LCE Clear Choice (35% Renewable)	LCE Smart Choice (100% Renewable)
Lancaster Choice Energy	\$136.78	\$135.77	\$145.77

	PG&E 30% Renewable	MCE Light Green 50% Renewable	MCE Deep Green 100% Renewable
MCE (Marin Clean Energy)	\$105.52	\$107.03	\$111.48
Sonoma Clean Power	\$120.39	Clean Start 36% Renewable \$119.43	EverGreen 100% Renewable \$137.29

Source: CCA Websites



SOLANA BEACH CCA

- ▶ Where We Are
- ▶ Next Steps



▶ Questions/Discussion

