



# Community Choice Aggregation (CCA) Overview: Markets and Trends

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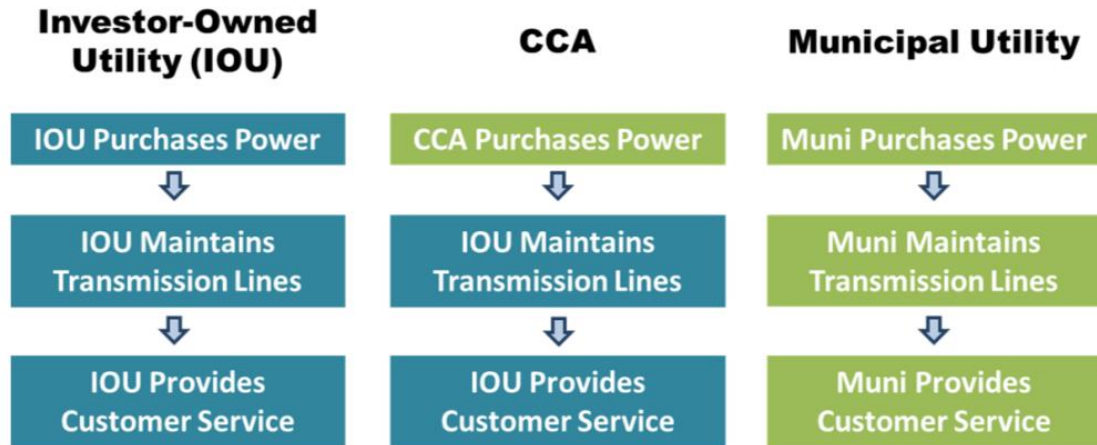
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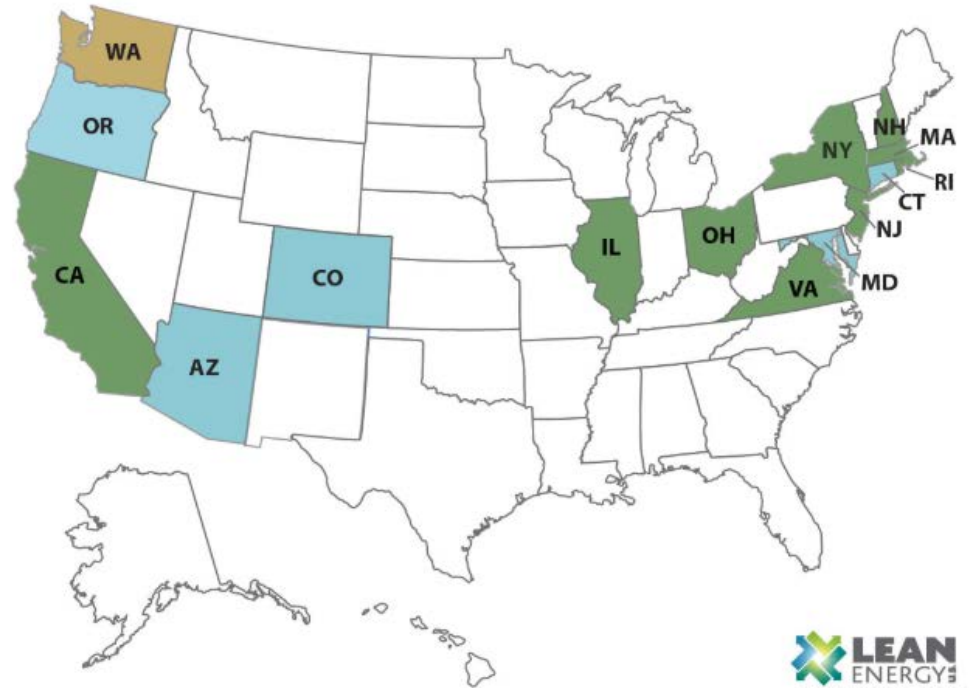
# What's the Difference between a CCA and Other Utility Types?

- CCAs are a hybrid between an IOU and a municipal utility
- Sometimes termed “muni-light”
- The CCA is in charge of purchasing power, while the existing IOU maintains transmission, distribution/customer service.

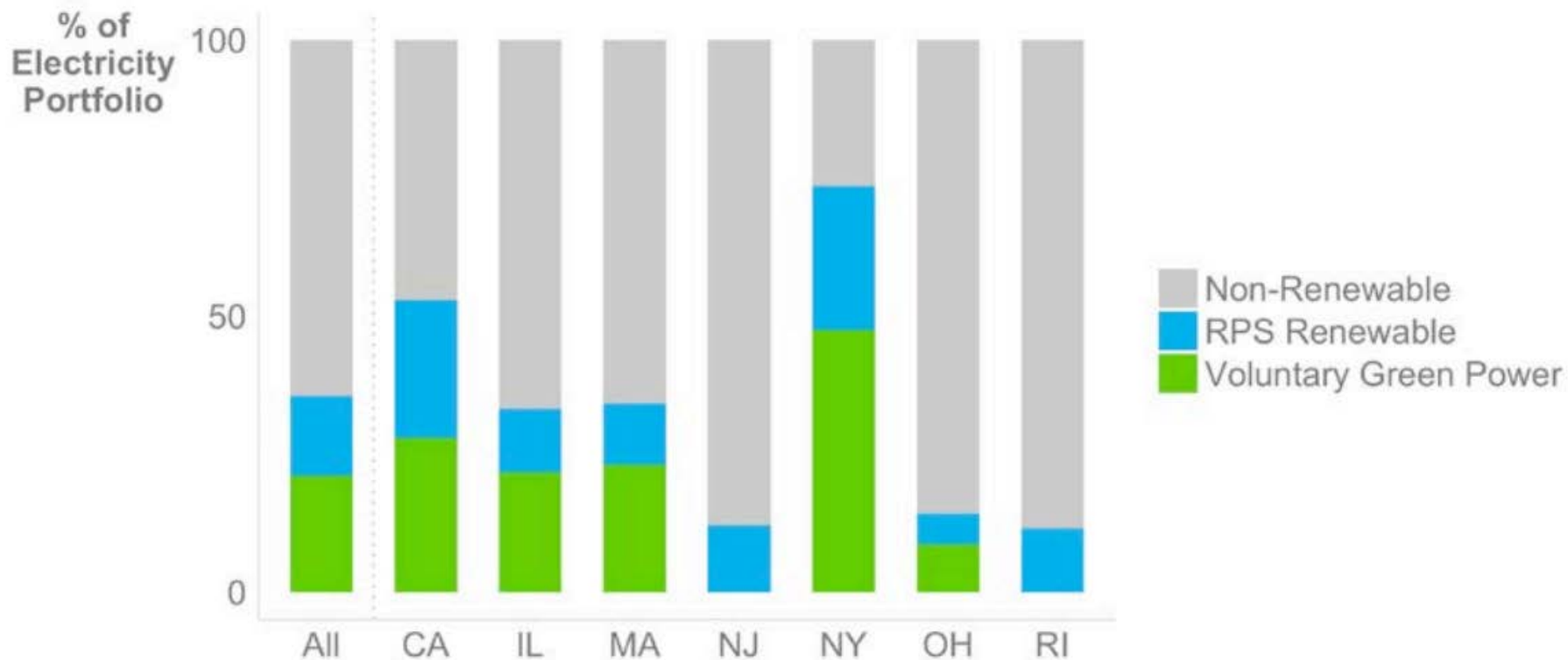


# 9 States Have Authorized CCAs

- Local governments need state authorization to adopt a CCA
- **Authorization** exists in California, Illinois, Ohio, New York, New Jersey, Massachusetts, Rhode Island
  - New Hampshire and Virginia have authorized CCAs but CCAs have not been implemented yet
- Additional states (including Colorado) have CCA under **consideration**.

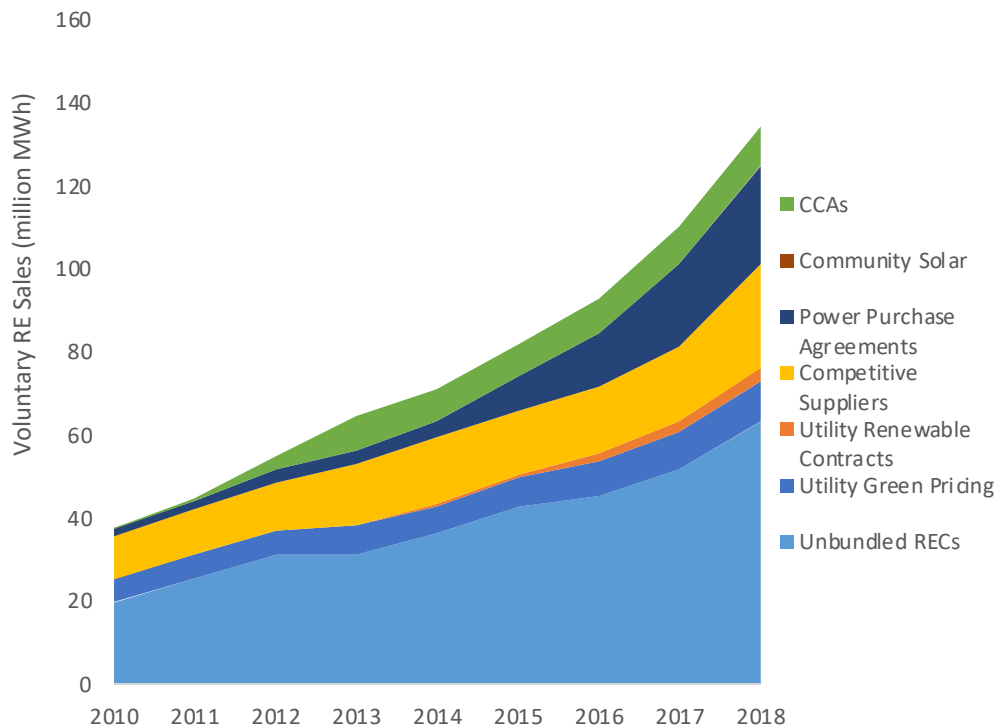
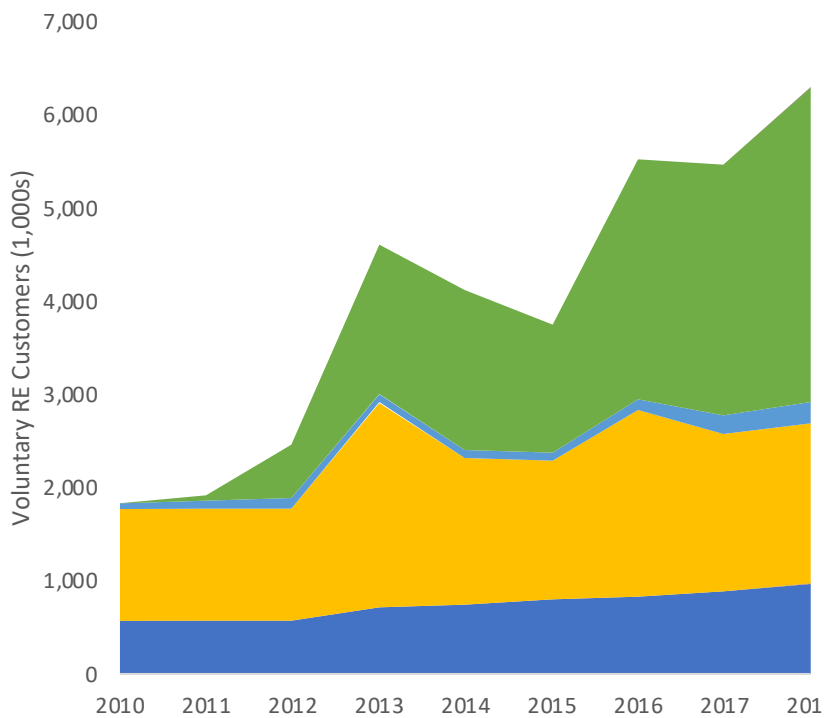


# CCAs are Supplying RPS-Renewables and Voluntary Green Power to Customers



# CCAs Dominate Green Power Customers; Are a Smaller Fraction of Sales

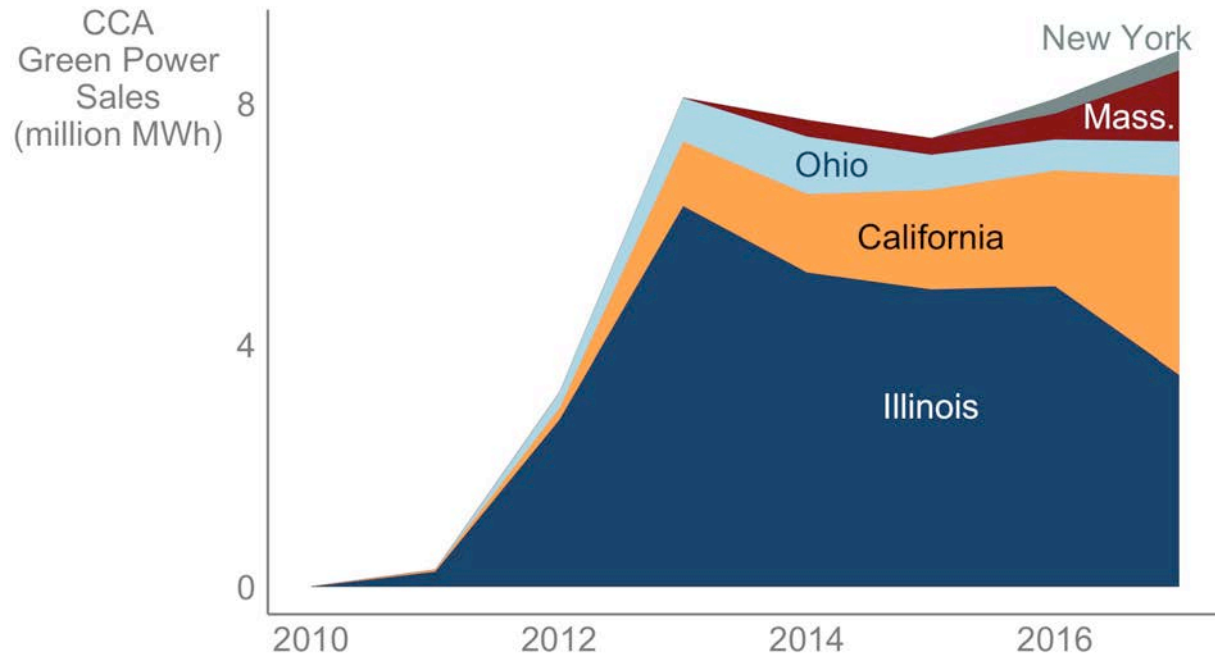
*In 2018, CCAs represented 53% of green power customers and 7% of sales. The disparity is a result of CCAs primarily serving residential customers.*



Source: Heeter et al. (2019)

# California CCAs are Growing Part of CCA Green Power Sales

*The continued increase in CCA green power sales is mostly driven by growth in California, Massachusetts, and New York. CCA green power sales continue to decline in Illinois.*



# 2018 CCA Sales by State

State	Green Power Sales (MWh)	Green Power Customers
California	4,374,000	2,229,000
Illinois	2,786,000	104,000
Massachusetts	1,222,000	877,000
Ohio	691,000	111,000
New York	396,000	61,000
<b>TOTAL</b>	<b>9,469,000</b>	<b>3,382,000</b>

# CCA Challenges

- Maintaining Cost Savings
- Supplying Local Renewable Energy
- Ensuring Customer Awareness
- Addressing Customer Opt-Out and Churn
- Legacy Cost Allocation



# NREL's CCA-Related Publications

Visit our webpage:

<https://www.nrel.gov/analysis/green-power.html>



## Community Choice Aggregation: Challenges, Opportunities, and Impacts on Renewable Energy Markets

Eric O'Shaughnessy,<sup>1</sup> Jenny Heeter,<sup>1</sup> Julien Gattaciecce,<sup>2</sup> Jenny Sauer,<sup>1</sup> Kelly Trumbull,<sup>2</sup> and Emily Chen<sup>1</sup>

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[Community Choice Aggregation: Challenges, Opportunities, and Impacts on Renewable Energy Markets](#)



## Status and Trends in the Voluntary Market (2018 data)

Jenny Heeter, NREL  
Eric O'Shaughnessy, Clean Kilowatts LLC

Presented at the Renewable Energy Markets Conference 2019  
San Diego, California  
4-6 September, 2019

[Status and Trends in the U.S. Voluntary Green Power Market \(2018 Data\)](#)



## Status and Trends in the U.S. Voluntary Green Power Market (2017 Data)

Eric O'Shaughnessy, Jenny Heeter, and Jenny Sauer

National Renewable Energy Laboratory

[Status and Trends in the U.S. Voluntary Green Power Market \(2017 Data\)](#)

# Thank you.

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[www.nrel.gov](http://www.nrel.gov)

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