

Evanston Climate Action Plan History and Electricity Aggregation Spring 2019



Citizens' Greener Evanston
Act Locally. Breathe Globally.

Our mission:

Citizens' Greener Evanston works to make Evanston a more environmentally just, sustainable, and resilient community.



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Evanston Climate Action History

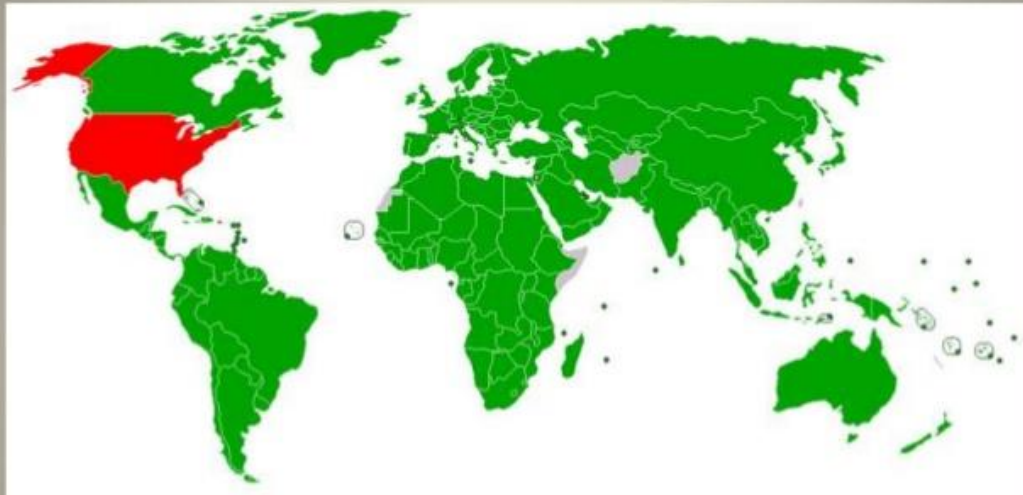
1997: Kyoto Protocol issued.

2005: Kyoto Protocol went into effect (without US participation).

2006: Evanston joined the U.S. Mayors Climate Protection Agreement.

2007: Network for Evanston's Future/City of Evanston develop ECAP.

Kyoto Protocol participation map



Green = Countries that have signed and ratified the treaty

Grey = Countries that have not yet decided

Red = No intention to ratify at this stage.

2008

Evanston Climate Action Plan

November 2008

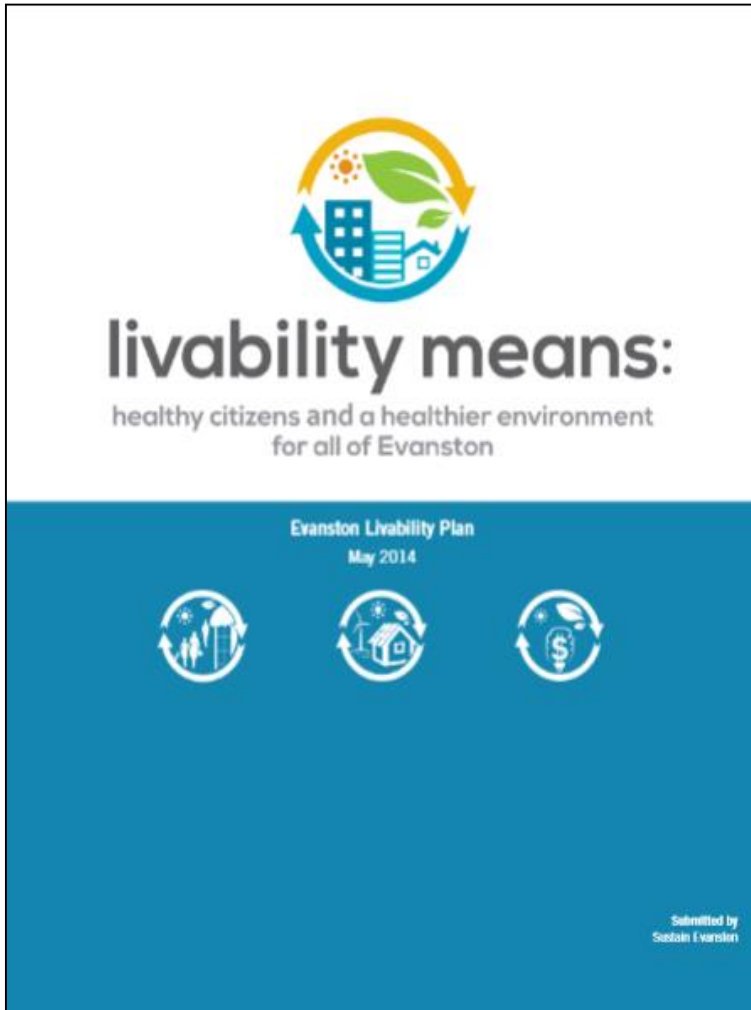


Goal: 13% CO₂ reduction by 2012

PASSED UNANIMOUSLY

ACHIEVED?

2014



Goal: 20% CO₂ reduction by 2016

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ACHIEVED!

Emissions Reduction Progress Report

Emissions Scope	Category	Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
		Units	MTCO ₂ e												
2	Building Energy Consumption	Residential Electricity (all classes)	154,524	149,040	150,400	147,120	135,831	149,812	147,949	153,490	140,299	139,642	121,408	114,335	111,096
2	Building Energy Consumption	Small Commercial Electricity	366,025	380,907	385,988	374,123	364,908	377,846	368,431	372,696	358,954	350,347	325,850	137,478	138,849
2	Building Energy Consumption	Large Commercial Electricity												151,289	149,842
2	Building Energy Consumption	Government non-City-owned	641	641	641	641	641	641	641	641	641	641	641	641	730
1	Building Energy Consumption	Residential Gas Consumption	114,674	116,791	119,144	127,295	118,762	114,717	120,070	120,070	122,458	114,322	118,433	106,071	109,489
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1	Building Energy Consumption	Commercial Gas Consumption							207,016	207,016	217,132	181,887	217,779	209,169	209,463
1	Building Energy Consumption	Fugitive Gas Emissions	1,017	1,016	1,062	1,119	1,012	940	994	994	1,032	901	1,020	956	967
1	Transportation and Mobility	VMT Community	121,736	121,736	121,736	121,736	121,736	118,084	118,084	118,084	118,084	118,084	118,556	122,148	142,925
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		Total Pre-Renewable Energy Credits	1,018,668	1,026,744	1,049,621	1,053,941	993,478	997,635	1,006,713	1,014,962	1,002,796	949,057	937,205	874,977	897,026
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Community Aggregation Update

What is Aggregation?

- Community Choice Electricity Aggregation is an opt-out program that allows local governments to bundle together, or aggregate, residential and small commercial electric accounts and seek proposals for a cleaner, and possibly cheaper, energy sources.
- By bundling residential and small commercial accounts, municipalities may be able to obtain savings by purchasing energy supply from the open market.
- Aggregation is enabled by a referendum.
- ComEd still delivers the electricity and remains responsible for customer service, billing and outage response.


Community electricity aggregation allows the city council to choose a supplier for all residential and small commercial customers in order to get a better deal. In Evanston, “better” means cheaper AND greener.


Community Aggregation in Evanston

- March 2012: **73%** of Evanston voters approved the aggregation referendum.
- April 2012: City Council **unanimously** approved 12-month contract, 100% renewable.
- April 2013: City Council **unanimously** approved 12-month contract, 100% renewable.
- April 2014: City Council **unanimously** approved 36-month contract, 100% renewable.
- June 2017: City Council **unanimously** approved 36-month contract, 100% renewable.



Aggregation on Your Electric Bill

	SUPPLY - Dynegy Energy Services	\$27.10
Energy Charge	380 kWh X 0.07132	\$27.10

	DELIVERY - ComEd	\$27.98
Customer Charge		\$10.84
Standard Metering Charge		\$4.63
Distribution Facilities Charge	380 kWh X 0.03171	\$12.05
IL Electricity Distribution Charge	380 kWh X 0.00120	\$0.46

TAXES & FEES **\$5.59**

Environmental Cost Recovery Adj	380 kWh X 0.00024	\$0.09
Renewable Portfolio Standard	380 kWh X 0.00142	\$0.54
Zero Emission Standard	380 kWh X 0.00190	\$0.72
Energy Efficiency Programs	380 kWh X 0.00015	\$0.06
Franchise Cost	\$27.39 X 2.21500%	\$0.61
State Tax		\$1.25
Municipal Tax		\$2.32

Service Period Total **\$60.67**

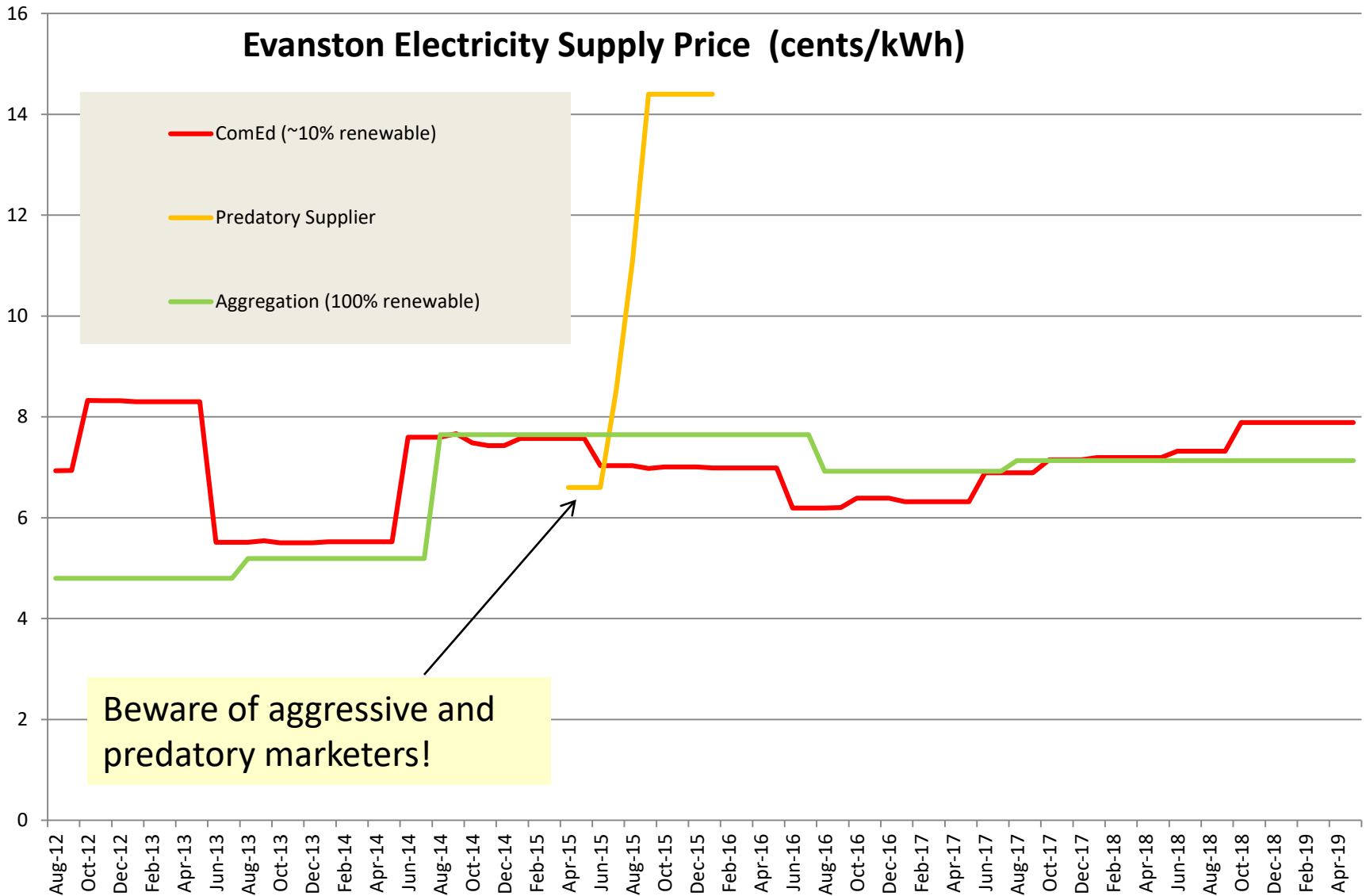
Thank you for your payment of \$56.64 on October 24, 2018

Total Amount Due \$60.67

Aggregation applies to the “supply” portion of the bill. Evanston customers are in aggregation if Dynegy Energy Services is listed as the supplier.

ComEd gets paid for delivery.

Aggregation vs Com Ed



How Much Extra for Renewable?

○ YEAR	Cost per kWh	x average usage = annual cost
○ 2012:	0.107 ¢/kWh	x 9000 kWh/year = \$9.63 per year
○ 2013:	0.080 ¢/kWh	x 9000 kWh/year = \$7.20 per year
○ 2014-2017:	0.098 ¢/kWh	x 9000 kWh/year = \$8.82 per year

A conservative estimate for a typical single family home.

Total cost to community assuming 30,000 households:

○ 2012:	\$288,900
○ 2013:	\$216,000
○ 2014-2017:	\$264,600

Going 100% renewable is cheap—less than a \$10 a year for the average Evanston household!

Aggregation Summary

KEY POINTS

- Aggregation with renewables has been essential to meeting our climate goals.
- Aggregation with renewables has saved us money over time.

ADDITIONAL BENEFITS

- Transparent, reliable pricing—rate is known for 1-3 years (unlike ComEd).
- Community pride as a nationally recognized climate leader.

ON THE OTHER HAND...

- Aggregation contracts have only been short term.
- Only residential customers are eligible.
- Indirect connection to renewable generation.

How can we secure long term, low cost renewable energy for the entire Evanston community?

Beyond Aggregation

Option 1: Stay the Course

- Continue with CCA as we have been
- RFP every 1-3 years
- request prices for both brown and green

Pros

- Path is clear and well trodden
- Flexibility

Cons

- It's a pain to switch ARES
- Not a long term solution
- Risk of backsliding on renewable energy commitment
- Excludes commercial customers

Beyond Aggregation

Option 2: Municipal Utility

- Quit ComEd and set up an Evanston Municipal Utility
- There are 32 in Illinois, including Winnetka, Naperville, and St. Charles
- Long term contracts directly with wind farms and other sources

Pros

- Complete control of electricity supply
- Includes commercial customers

Cons

- Major cost to set up (would have to buy infrastructure from ComEd)
- Major costs to maintain, outside of City's current core competency
- Politically challenging

Beyond Aggregation

Option 3: Community ARES

- Set up a non-profit ARES owned by the City
- Long term contract directly with wind farms and other sources
- Long term contracts can keep prices down
- Could expand to include other communities

Pros

- Complete control of electricity supply
- Includes commercial customers
- Prices potentially lower than standard ARES
- Lower set-up costs than muni utility
- No maintenance obligations

Cons

- Set up costs are still significant
- Additional operating costs
- Politically challenging

Community ARES Business Plan

- Prepared by graduate students at Loyola's Quinlan School of Business & Institute of Environmental Sustainability
- Preliminary

Initial Funding Requirements:

PJM Letter of Credit	\$1.5 million
Other Fees and Certifications	\$335 thousand
First 4 years of Losses	\$486 thousand
Cash on Hand	\$500 thousand
<hr/>	<hr/>
Total	\$2.8 million

Goal: match ComEd current price (6.3 cents/kWh), +0.5% annual escalator

Assumptions:

- start with initial usage (~2/3 of residents, 132 million kWh)
- 10% annual growth Y1-Y5, 3% thereafter
- Wind energy: 3.5 cents/kWh, +0.5%/yr
- Traditional energy: 2.8 cents/kWh. +0.5% /yr
- RECs: 0.25 cents/kWh, +0.5%/yr
- ~\$3 million annual operating costs

Community ARES Business Plan

Conclusions

- 50% of power sourced from wind farms
- 50% from traditional sources offset by RECs
- Break even Yr 14 (2031) with only Evanston residential volume (aggregation)
- *Performance improves significantly with more volume*

Beyond Aggregation

Option 4: Something Else ???

City of Evanston Sustainability

CGE Advocacy



- 2012: Aggregation referendum and contract
- 2013: Aggregation contract renewal
- 2014: Aggregation contract renewal
Livability Plan
- 2017: Aggregation contract renewal
Environmental Issues Forum for Mayoral Candidates
Environmental Issues Survey for all City Candidates
- 2018: CARP

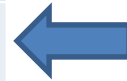


City Officials

Year	Mayor	City Manager	Carolyn Collopy	Catherine Hurley	Kumar Jensen
2007	Morton	Julia Carroll	Sustainable Programs Coordinator		
2008					
2009		Rolanda Russell			
2010	Tisdahl	Wally Bobkiewicz			
2011					
2012			Sustainable Programs Coordinator		
2013					
2014				Sustainability Fellow	
2015					
2016				Sustainability Manager	
2017	Hagerty			Environmental Project Coordinator	
2018				Sustainability Coordinator	
2019				Chief Sustainability and Resilience Officer	



Climate Action Plan (11/2008)



Livability Plan (5/2014)



Climate Action and Resilience Plan (12/2018)