



City of Urbana, Illinois Municipal Electric Aggregation Report 2014 Quarter 1



POWER IS MONEY.



City of Urbana 400 South Vine Street, Urbana, IL 61801 Public Works Department 706 South Glover Street, Urbana, IL 61802 http://urbanaillinois.us http//www.facebook.com/CityofUrbana The City of Urbana voters approved municipal electric aggregation in the March 20, 2012 primary. It is a way for the city to buy electricity in bulk for city residents and small businesses at a cheaper price.

The Municipal Electric Aggregation program includes the purchase of Renewable Energy Credits (REC) for all the electricity used by everyone opted into the aggregation group. The cost of the RECs is built into the \$0.04055 price per kilowatt hour paid by electricity users in the aggregation group. RECs offset the emissions generated by traditional power generation by laying claim to and accounting for the associated attributes of renewable energy generation.

The Plan of Operation and Governance that oversees the Municipal Aggregation Program calls for the winning bidder, Homefield Energy, to provide three reports to the City on a quarterly basis. Those reports are:

- **Power Mix Report.** A report showing that (1) the Supplier generated or purchased electricity with the claimed attributes in amounts sufficient to match actual consumption by customers; (2) the electricity was supplied to the interconnected grid serving the customers; and (3) the same generated electricity was not sold to more than one consumer. The report will show the source of the power and demonstrate that the power was provided in accordance with Renewable Portfolio Standards and federal Clean Air Act regulations and permits.
- **RECs Report.** A report providing competent and reliable evidence to support the fact that the Supplier purchased properly certified RECs in a sufficient quantity to offset the non-renewable energy provided in the mix.
- **Aggregation Report.** A report showing the number of customers in the Program and the total cost for energy provided to the Program as compared to the Ameren's default tariff service rates. In addition, the Supplier will report its customer education efforts.

In addition to the reporting required of the city's municipal electric aggregation vendor, city staff has also included information about electricity production in our subregion, the state, and utility company serving the region.

Homefield Energy's RECs are tracked in "M-RETs", a renewable energy credits tracking database. This tracking system is essentially a "bank account" for RECs. Renewable energy projects register with the system by providing basic information such as their size, location, owner name, and resource type (e.g. wind, solar, biomass).

As the projects operate, a qualified reporting entity reports the actual metered electric generation by the project to the tracking system. The tracking system then creates and issues RECs, each with a unique serial number, to the project's tracking system account. After the RECs are issued to buyers such as Homefield Energy, they can be transferred to a retirement account, meaning the RECs have been used for a purpose and can no longer be transferred or used for another purpose. This demonstrates compliance with renewable portfolio laws. Each REC in a tracking system has its own serial number generated by the system, allowing Homefield Energy to identify the exact RECs retired on our customers' behalf.

Power Mix Report	- Provided By	[,] Homefield	Energy
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4891	740-IA-12-2012-24757-1 to 4891	11/2008	11/2008	Renewable	Wind	Walnut Wind Farm II - Walnut Wind Farm II		M740	AMURBANA MA Vol RECs 2012 RFP	
23127	739-IA-12-2012-24756-1 to 23127	11/2008	11/2008	Renewable	Wind	Walnut Wind Farm I - Walnut Wind Farm I	Walnut W	M739	AMURBANA MA Vol RECs 2012 RFP	
Quantity	Certificate Serial Numbers	Generation Period	Certificate Vintage	Certificate Type	Fuel Type	Generating Facility		M- RETS ID	SubAccount	

Renewable Energy Credits (RECs) were retired for 92% of Urbana's total usage. Retiring RECs is the act of purchasing and recording a REC to ensure it is only used for carbon offset purposes once. As RECs are retired, new resources must be built to meet future renewable energy requirements. As an Illinois Alternative Retail Electric Supplier (ARES), Ameren Energy Marketing (doing businesses as "Homefield Energy") is required to submit an Renewable Portfolio Standard (RPS) compliance filing with the ICC each year based on total load served during the planning year of June 1 to May 31. State RPS law requires that power companies source 8% of their generation from renewable sources. Therefore, next August when Homefield Energy submits their RPS compliance filing, they will retire RECs in accordance with the RPS to account for the 8%.

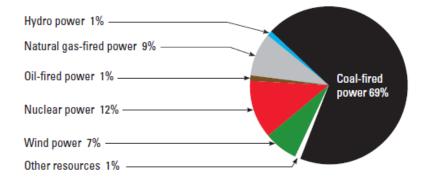
DEC for	Usage less RPS	IL RPS 8%	Total Usage	Urbana	Community
na	38 RPS	%	age		nity
28,018	28,018,289	2,436,373	30,454,662	Yes	100% Green
(each RE)	kwh	kwh	kWh	0.04055	Price / kwh
(each REC represent 1000 kWh of usage)				0.04055 10,958,807	Jan Billed kWh
000 kWh of u				10,049,991 9,445,864	Feb Billed kWh
1sage)				9,445,864	Mar Billed kWh
				30,454,662	Q1 2014 Billed kWh
				28,018	Q1 '14 Voluntary RECs

* Indicates number of accounts billed in the month. Due to bill cycles, some accounts may have billed twice in October and not in November

March	February	January	Bill Month
13,445	11,780	12,209	# of Accounts Billed
9,445,864	10,049,991	10,958,807	kWh
\$0.04055	\$0.04055	\$0.04055	Price per kwh
\$ 383,029.79	\$ 407,527.14	\$ 444,379.62	Customer Cost
0.04803	0.04803	0.04803	Price to Compare
\$ 453,684.85	\$ 482,701.07	\$ 526,351.50	Customer Cost if on Ameren Illinois supply
\$ 70,655.06	\$ 75,173.93	\$ 81,971.88	Customer Savings
\$227,800.87 0.00623 \$11,807.33			Total Savings
0.00623	0.00582	0.00532	PEA
\$11,807.33	\$16,682.99	\$23,671.02	PEA Savings
\$52,161.34			PEA Total Savings

Ameren Illinois

Sources of electricity supplied for the 12 months ending March 31, 2014 for Ameren Illinois



Sources of electricity supplied for the 12 months ending March 31, 2014	Percentage of total
Biomass power	0%
Coal-fired power	69%
Hydro power	1%
Natural gas-fired power	9%
Nuclear power	12%
Oil-fired power	1%
Solar power	0%
Wind power	7%
Other resources	1%
Unknown resources purchased from other companies	0%
TOTAL	100%

AVERAGE AMOUNT OF EMISSIONS and AMOUNTS OF NUCLEAR WASTE per 1000 kilowatt-hours (kWhs) PRODUCED from KNOWN sources for the 12 months ending March 31, 2014

Carbon Dioxide	1,634 lbs
Nitrogen Oxides	0.99 lbs
Sulfur Dioxide	2.04 lbs
High-Level Nuclear Waste	0.0007 lbs
Low-Level Nuclear Waste	0.0002 ft ³

Footnote – Additional information on companies selling electrical power in Illinois may be found at the Illinois Commerce Commission's website (www.icc.illinois.gov). The disclosure of this information is required under Section 16-127 of the Electric Service Customer Choice and Rate Relief Law of 1997 and the rules of the Illinois Commerce Commission, 83 Ill. Adm. Code 421.

Vear 2010 eGRID Subregion Emissions - Greenhouse Gases Total Comput emission Emissions rate Emissions rate Total
$\begin{array}{c} \text{He} \left(N_2 \right) \\ \text{He}$
Use Gases N_2O Carbon dioxide equivalent (CO_2e) Total utput Emission Total output emission rate (fons) rate (lb/MWh) //GWh) (fons) rate (lb/MWh) //GWh) (fons) rate (lb/MWh) 15.72 105,437,897.1 1,259.64 3.68 318,484.5 450.10 15.72 105,437,897.1 1,182.89 6.03 65,060,940.8 613.28 14.07 211,181,230.4 1,222.88 13.75 1,39,229,866.5 1,201.79 6.33 1,39,229,866.5 1,201.79 13.88 1,972,289.1 1,336.02 22.41 6,428,632.4 1,630.90 27.52 26,155,232.6 1,545.11 12.98 47,265,180.4 727.60 28.01 113,479,975.1 846.97 29.20 12,761,649.6 623.78 10.28 8,145,619.2 1,341.01 7.24 24,279,706.7 548.37 28.62

The highlighted row is the subregion which contains the City of Urbana.