



Municipal Electric Aggregation



City of Urbana, Illinois Municipal Electric Aggregation Report 2013 Quarter 3



MUNICIPAL ELECTRIC AGGREGATION

POWER IS MONEY.



City of Urbana 400 South Vine Street, Urbana, IL 61801
Public Works Department 706 South Glover Street, Urbana, IL 61802
<http://urbanaininois.us>
<http://www.facebook.com/CityofUrbana>

Background

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.

Power Mix Report – Provided By Homefield Energy

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

*6,705 RECs were retired in Q2

Action	SubAccount	M-RETS ID	Generating Facility	Fuel Type	Certificate Type	Certificate Vintage	Generation Period	Certificate Serial Numbers	Quantity	WI REC Adjusted Quantity
Transfer	AMURBANA MA Vol RECs 2012 RFP	M753	Victory Wind Farm - Victory Wind Farm	Wind	Renewable	04/2012	04/2012	753-IA-04-2012-21040-1 to 15704	15,704	0

Renewable Energy Credits Report – Provided By Homefield Energy

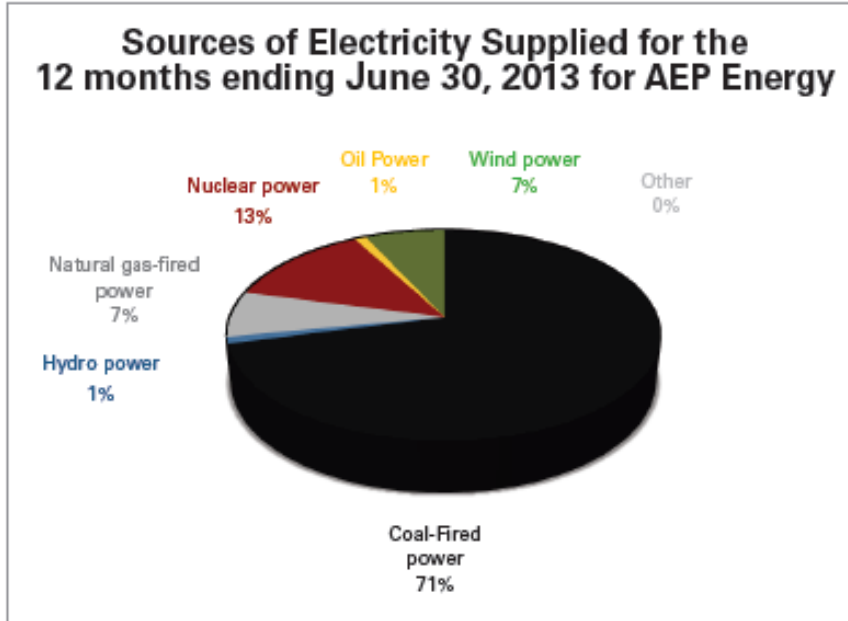
Renewable Energy Credits (RECs) were retired for 92% of Urbana’s total usage. Retiring RECs is the act of purchasing and recording a REC to ensure it is only used for carbon offset purposes once. As RECs are retired, new resources must be built to meet future renewable energy requirements. As an Illinois 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%.

Community	100% Green	Price / kwh	Jul Billed kwh	Aug Billed kwh	Sep Billed kwh	Q3 2013 Billed kwh	Q3 '13 Voluntary RECS
Urbana	Yes	0.04055	9,093,645	6,826,563	8,437,125	24,357,333	22,409
Total Usage			24,357,333 kwh				
IL RPS 8%			1,948,587 kwh				
Usage less RPS RECs for Urbana			22,408,746 kwh				
							22,409 (each REC represent 1000 kwh of usage)

Aggregation Report - Provided By Homefield Energy

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

Bill Month	# of Accounts Billed	kWh	Price per kWh	Customer Cost	Price to Compare	Cost if on		Customer Savings	Total Savings	PEA	PEA Savings	PEA Total Savings
						Ameren Illinois supply	Illinois supply					
July	13,494	9,093,645	\$0.04055	\$368,747.30	0.04680	\$425,582.59	\$56,835.28		0.00805	-\$16,368.56		
August	12,904	6,826,563	\$0.04055	\$276,817.13	0.04680	\$319,483.15	\$42,666.02		0.00990	-\$24,916.95		
September	11,483	8,437,125	\$0.04055	\$342,125.42	0.04680	\$394,857.45	\$52,732.03	\$152,233.33	0.01207	-\$49,104.07	-\$90,389.58	



Sources of Electricity Supplied for the 12 months ending June 30, 2013

MISO Residual Mix

The following distribution of energy resources was used to produce electricity in the MISO Region from the Residual Mix.

Biomass power	0%
Coal-fired power	71%
Hydro power	1%
Natural gas-fired power	7%
Nuclear power	13%
Oil-fired power	1%
Solar power	0%
Wind power	7%
Other resources	0%
Unknown resources purchased from other companies	0%
TOTAL	100%

The MISO System average emission levels are based on data for the system mix for the first quarter, 2013.

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

eGRID subregion acronym	eGRID subregion name	Nameplate capacity (MW)	Net Generation (MMWh)	Generation resource mix (percent)													Other unknown/purchased fuel	
				Coal	Oil	Gas	Other fossil	Biomass	Hydro	Nuclear	Wind	Solar	Geo-thermal					
AKGD	ASCC Alaska Grid	1,514.9	5,337,982.5	11.8133	13.6743	66.0333	0.0000	0.0000	0.4773	63.8578	8.4791	0.0000	0.0000	0.5151	0.0000	0.0000	0.0000	0.0000
AKMS	ASCC Miscellaneous	701.1	1,364,176.9	0.0000	31.2972	3.8526	0.0000	0.4773	63.8578	0.0000	0.5151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AZNM	WECC Southwest	48,647.5	186,138,763.9	38.5979	0.0598	35.6908	0.0013	0.3166	6.0901	16.4726	0.0000	0.5008	0.1012	0.0000	2.1789	0.0000	0.0000	0.0000
CAMX	WECC California	73,662.1	212,768,947.3	7.3294	1.3637	53.0498	0.2087	2.7167	12.7172	14.9288	2.7635	0.3003	0.3003	4.3676	0.2553	0.0000	0.0000	0.0000
ERCT	ERCOT All	101,910.6	337,031,899.7	32.9816	1.0518	47.8308	0.1257	0.1215	0.1539	12.3127	5.3314	0.0000	0.0000	0.0000	0.0906	0.0000	0.0000	0.0000
FRCC	FRCC All	65,716.1	208,123,783.6	23.6531	4.4222	54.8319	0.6348	1.7398	0.0099	13.9907	0.0000	0.0046	0.0000	0.7130	0.0000	0.0000	0.0000	0.0000
HIMS	HiCC Miscellaneous	881.5	3,019,123.5	1.9907	69.8707	0.0000	7.1345	3.3481	3.7312	0.0000	8.3278	0.0460	5.5510	0.0000	0.0000	0.0000	0.0000	0.0000
HIOA	HiCC Oahu	1,925.6	7,991,409.4	18.0201	77.6079	0.0000	2.2104	2.1615	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MROE	MRO East	8,881.2	29,587,725.5	68.9039	2.3652	4.9759	0.1206	3.2381	2.7096	15.2608	2.3228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1030
MROW	MRO West	53,894.9	190,640,178.1	69.0860	0.1515	2.3997	0.1600	1.1844	4.3578	13.9045	8.6647	0.0000	0.0000	0.0000	0.0914	0.0000	0.0000	0.0000
NEWE	NPCC New England	36,906.5	121,742,618.3	11.8606	1.5048	41.9731	1.6223	5.9158	7.0413	29.7801	0.3110	0.0000	0.0000	0.0000	0.0109	0.0000	0.0000	0.0000
NWPP	WECC Northwest	68,188.2	269,325,957.1	29.8340	0.3352	15.1503	0.1462	1.0927	46.5021	2.4632	3.8023	0.0000	0.5541	0.1199	0.0000	0.0000	0.0000	0.0000
NYCW	NPCC NYC/Westchester	13,914.0	40,501,288.1	0.0000	1.7869	55.8586	0.4808	0.5357	0.0185	40.8410	0.4784	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYLI	NPCC Long Island	6,002.5	9,431,561.8	0.0000	12.9840	77.3406	4.5546	5.1108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYUP	NPCC Upstate NY	24,408.3	88,081,534.5	14.4853	0.9024	18.9282	0.3570	1.5950	30.7898	30.5892	2.3530	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RFCE	RF-C East	73,537.6	261,151,661.8	35.3677	0.7271	17.1304	0.8437	1.3211	1.2358	42.9614	0.4050	0.0055	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000
RFCH	RF-C Michigan	29,501.5	88,251,703.2	71.9861	0.4093	9.5071	0.5982	1.8820	0.0000	15.2782	0.3391	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RFCH	RF-C West	146,174.7	561,623,124.7	69.8826	0.4022	3.5051	0.3533	0.5057	0.7949	23.5563	0.9355	0.0000	0.0000	0.0000	0.0644	0.0000	0.0000	0.0000
RMPA	WECC Rockies	17,516.6	62,070,098.9	67.7689	0.0435	22.5989	0.0000	0.0911	4.3045	0.0000	5.0659	0.0412	0.0000	0.0860	0.0000	0.0000	0.0000	0.0000
SPNO	SPP North	21,159.4	65,008,815.6	73.8392	0.2559	7.8088	0.0368	0.0289	0.1377	13.4882	4.4044	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SPSO	SPP South	43,413.8	140,443,029.2	55.2342	0.1667	33.8651	0.2189	1.2052	5.5274	0.0000	3.7798	0.0000	0.0000	0.0000	0.0027	0.0000	0.0000	0.0000
SRMV	SERC Mississippi Valley	50,443.7	165,358,644.7	22.7319	1.4534	45.0929	0.9805	1.9253	1.7270	25.9742	0.0000	0.0000	0.0000	0.2347	0.0000	0.0000	0.0000	0.0000
SRMW	SERC Midwest	27,319.6	112,061,747.1	79.7879	0.0884	1.0399	0.0122	0.1270	1.7552	17.0754	0.1140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SRSO	SERC South	70,962.7	252,713,687.3	52.1843	0.3489	22.3083	0.0748	2.9228	4.0925	18.0684	0.0000	0.0000	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000
SRTV	SERC Tennessee Valley	67,069.4	238,173,939.7	58.8034	0.9387	8.6065	0.0087	0.7817	8.5808	22.1286	0.1516	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SRVC	SERC Virginia/Carolina	80,187.5	293,154,419.6	45.1039	0.6421	8.9501	0.1921	2.0466	1.6491	41.3467	0.0000	0.0016	0.0000	0.0678	0.0000	0.0000	0.0000	0.0000
U.S.		1,134,441.5	3,961,097,802.2	44.4675	1.1174	23.3119	0.3414	1.3779	6.8033	20.2185	1.8614	0.0223	0.3799	0.0964	0.0000	0.0000	0.0000	0.0000

Year 2009 eGRID Subregion Resource Mix