

RCx Economic Summary to Date, Jul 2016
Variable Cost Utility Rates

Building	Time Period of RCx Visit	RCx Follow Up Complete	Annual Cost Avoidance Time Period	Building Area (GSF)	% Energy Avoided	Actual Energy Avoided (MMBTU)	Projected Avoided Utility Cost Per Year	Current Avoided Utility Cost	Cumulative Avoided Utility Cost since RCx	
									Energy (MMBTU)	Cost Avoidance
Krannert Center for Performing Arts	Oct-07 -		Nov-07 -Oct-08	499,644	35.80 %	30,647	\$375,000	\$168,224	254,884	\$1,957,678
Newmark Civil Engineering Building	Jan-08 -		Feb-08 -Jan-09	208,959	23.20 %	13,616	\$150,000	\$61,767	92,525	\$517,147
Turner Hall	Mar-08 -		Apr-08 -Mar-09	180,003	5.53 %	3,025	\$200,000	\$-11,058	97,086	\$871,742
ACES Library, Info. & Alumni Center	May-08 -		Jun-08 -May-09	82,742	41.55 %	13,561	\$75,000	\$101,151	92,772	\$887,807
FY 2008 Totals				971,349		60,849	\$800,000	\$320,083		
Music Building	Jul-08 -		Aug-08 -Jul-09	105,343	25.86 %	7,916	\$95,000	\$73,391	67,775	\$742,436
Mechanical Engineering Laboratory	Sep-08 -		Oct-08 -Sep-09	151,860	35.95 %	16,482	\$150,000	\$136,188	172,537	\$1,524,363
Animal Sciences Laboratory	Nov-08 -		Dec-08 -Nov-09	149,211	25.69 %	8,192	\$100,000	\$74,781	59,372	\$735,191
Chemical & Life Sciences Laboratory	Feb-09 -		Mar-09 -Feb-10	231,316	21.79 %	23,129	\$350,000	\$304,068	48,122	\$2,439,168
Madigan Laboratory, Edward R	Feb-09 -		Mar-09 -Feb-10	171,007	28.33 %	26,960	\$300,000	\$248,560	180,550	\$2,217,656
Wohlens Hall	Apr-09 -		May-09 -Apr-10	99,551	44.65 %	16,272	\$175,000	\$132,926	130,964	\$1,225,114
Loomis Laboratory of Physics	May-09 -		Jun-09 -May-10	175,513	20.20 %	11,095	\$175,000	\$119,362	87,103	\$1,096,883
FY 2009 Totals				1,083,801		110,046	\$1,345,000	\$1,089,276		

RCx Economic Summary to Date, Jul 2016
Variable Cost Utility Rates

Building	Time Period of RCx Visit	RCx Follow Up Complete	Annual Cost Avoidance Time Period	Building Area (GSF)	% Energy Avoided	Actual Energy Avoided (MMBTU)	Projected Avoided Utility Cost Per Year	Current Avoided Utility Cost	Cumulative Avoided Utility Cost since RCx	
									Energy (MMBTU)	Cost Avoidance
Psychology Laboratory	Aug-09 -		Sep-09 -Aug-10	154,523	23.81 %	13,460	\$200,000	\$111,125	122,125	\$1,168,521
Siebel Center for Computer Science	Aug-09 -		Sep-09 -Aug-10	266,825	40.88 %	32,837	\$300,000	\$375,656	224,948	\$2,746,848
Bevier Hall	Nov-09 -		Dec-09 -Nov-10	156,771	17.61 %	7,265	\$140,000	\$61,551	55,532	\$701,522
Coordinated Science Laboratory	Jan-10 -		Feb-10 -Jan-11	124,008	35.43 %	18,944	\$150,000	\$181,718	141,149	\$1,484,171
Illini Union Bookstore	Mar-10 -		Apr-10 -Mar-11	96,407	25.85 %	4,631	\$110,000	\$63,913	41,249	\$655,044
Nat Center for Supercomp Appl	Apr-10 -		May-10 -Apr-11	141,708	29.57 %	10,132	\$150,000	\$69,136	50,435	\$439,519
Undergraduate Library	May-10 -		Jun-10 -May-11	95,906	26.43 %	6,983	\$110,000	\$64,903	46,899	\$491,075
FY 2010 Totals				1,036,149		94,252	\$1,160,000	\$928,002		
Foellinger Auditorium	Jun-10 -		Jul-10 -Jun-11	51,765	7.56 %	536	\$25,000	\$4,388	13,080	\$142,834
Henry Administration Building	Jun-10 -		Jul-10 -Jun-11	160,497	16.61 %	5,748	\$115,000	\$51,370	67,412	\$820,112
Foreign Languages Building	Aug-10 -		Sep-10 -Aug-11	117,715	31.84 %	10,311	\$55,000	\$87,398	62,729	\$676,287
Physical Plant Service Building	Aug-10 -		Sep-10 -Aug-11	162,883	24.84 %	5,732	\$100,000	\$71,212	16,993	\$387,441
Digital Computer Laboratory	Jan-11 -		Feb-11 -Jan-12	194,280	39.21 %	32,315	\$270,000	\$273,546	223,476	\$2,105,389
Agricultural Engr Sciences Bldg	Feb-11 -		Mar-11 -Feb-12	106,019	18.96 %	3,200	\$60,000	\$29,577	8,418	\$171,819
Armory	Mar-11 -		Apr-11 -Mar-12	258,510	34.61 %	7,372	\$75,000	\$70,918	33,290	\$417,827
Grainger Engineering Library	Mar-11 -		Apr-11 -Mar-12	126,838	13.56 %	7,643	\$200,000	\$85,246	157,038	\$1,619,769
FY 2011 Totals				1,178,508		72,857	\$900,000	\$673,655		

RCx Economic Summary to Date, Jul 2016
Variable Cost Utility Rates

Building	Time Period of RCx Visit	RCx Follow Up Complete	Annual Cost Avoidance Time Period	Building Area (GSF)	% Energy Avoided	Actual Energy Avoided (MMBTU)	Projected Avoided Utility Cost Per Year	Current Avoided Utility Cost	Cumulative Avoided Utility Cost since RCx	
									Energy (MMBTU)	Cost Avoidance
Alice Campbell Alumni Center	Jun-11 -		Jul-11 -Jun-12	68,859	26.89 %	3,286	\$50,000	\$30,920	17,527	\$210,899
Campbell Hall	Jun-11 -		Jul-11 -Jun-12	40,731	40.62 %	7,163	\$96,000	\$39,520	37,034	\$270,140
Library	Jul-11 -		Aug-11 -Jul-12	562,532	37.94 %	35,649	\$310,000	\$301,944	232,173	\$2,211,424
Illinois Sustainable Technology Center	Sep-11 -		Oct-11 -Sep-12	52,887	28.84 %	4,917	\$40,000	\$33,452	18,871	\$279,635
Spurlock Museum	Dec-11 -		Jan-12 -Dec-12	53,922	49.33 %	9,359	\$80,000	\$81,984	48,687	\$465,953
Beckman Institute	Jan-12 -		Feb-12 -Jan-13	357,600	24.18 %	29,348	\$300,000	\$244,432	131,048	\$1,469,034
Children's Research Center	Feb-12 -		Mar-12 -Feb-13	46,806	28.31 %	1,642	\$20,000	\$15,611	6,067	\$119,113
FY 2012 Totals				1,183,337		91,363	\$896,000	\$747,864		
Water Survey Research Center Grounds	Jul-12 -		Aug-12 -Jul-13	10,923	16.50 %	3,294	\$50,000	\$47,945	12,737	\$196,597
Engineering Hall	Jul-12 -		Aug-12 -Jul-13	93,189	22.66 %	3,369	\$55,000	\$49,619	6,486	\$179,931
Medical Sciences Building	Jul-12 -		Aug-12 -Jul-13	114,784	30.13 %	11,904	\$145,000	\$123,069	46,991	\$552,557
Huff Hall	Jul-12 -		Aug-12 -Jul-13	182,536	21.04 %	3,943	\$65,000	\$53,088	11,120	\$209,467
Printing & Photographic Serv Bldg	Mar-13 -		Apr-13 -Mar-14	59,376	8.80 %	767	\$35,500	\$16,057	3,978	\$77,100
Freer Hall	Apr-13 -		May-13 -Apr-14	93,890	32.18 %	7,234	\$65,000	\$62,862	30,078	\$261,781
Art and Design Building	May-13 -		Jun-13 -May-14	75,077	-1.12 %	-167	\$50,000	\$14,563	200	\$66,867
FY 2013 Totals				629,776		30,342	\$465,500	\$367,204		

RCx Economic Summary to Date, Jul 2016
Variable Cost Utility Rates

Building	Time Period of RCx Visit	RCx Follow Up Complete	Annual Cost Avoidance Time Period	Building Area (GSF)	% Energy Avoided	Actual Energy Avoided (MMBTU)	Projected Avoided Utility Cost Per Year	Current Avoided Utility Cost	Cumulative Avoided Utility Cost since RCx	
									Energy (MMBTU)	Cost Avoidance
Business Instructional Facility	Jun-13 -		Jul-13 -Jun-14	162,251	33.21 %	8,221	\$100,000	\$83,387	29,401	\$294,622
Temple Hoyne Buell Hall	Aug-13 -		Sep-13 -Aug-14	94,195	4.63 %	637	\$44,000	\$15,095	8,245	\$92,068
Gregory Hall	Sep-13 -		Oct-13 -Sep-14	110,044	22.49 %	3,097	\$40,000	\$34,153	10,821	\$112,973
Admissions and Records Building	Oct-13 -		Nov-13 -Oct-14	32,930	64.02 %	7,348	\$39,000	\$61,861	22,222	\$185,457
Fred Turner Student Services Bldg	Oct-13 -		Nov-13 -Oct-14	41,265	38.26 %	3,303	\$33,720	\$27,059	10,486	\$86,675
School of Labor and Employment Relations	Nov-13 -		Dec-13 -Nov-14	25,258	35.28 %	2,496	\$24,425	\$24,030	5,678	\$61,237
Lincoln Hall	Jan-14 -		Feb-14 -Jan-15	175,836	57.02 %	21,707		\$161,869	54,623	\$412,637
David Kinley Hall	Feb-14 -		Mar-14 -Feb-15	80,590	42.47 %	7,768	\$50,000	\$59,395	20,175	\$153,786
Materials Science and Eng Bldg	Feb-14 -		Mar-14 -Feb-15	101,803	18.57 %	3,768	\$67,000	\$36,178	11,715	\$110,167
FY 2014 Totals				824,170		58,344	\$398,145	\$503,027		

RCx Economic Summary to Date, Jul 2016
Variable Cost Utility Rates

Building	Time Period of RCx Visit	RCx Follow Up Complete	Annual Cost Avoidance Time Period	Building Area (GSF)	% Energy Avoided	Actual Energy Avoided (MMBTU)	Projected Avoided Utility Cost Per Year	Current Avoided Utility Cost	Cumulative Avoided Utility Cost since RCx	
									Energy (MMBTU)	Cost Avoidance
Plant Sciences Laboratory	Jun-14 -		Jul-14 -Jun-15	100,848	2.83 %	891	\$112,000	\$11,741	5,824	\$57,850
Smith Memorial Hall	Jul-14 -		Aug-14 -Jul-15	76,307	14.19 %	2,789	\$60,000	\$27,596	7,257	\$70,926
Early Child Development Lab	Jul-14 -		Aug-14 -Jul-15	23,182	13.43 %	671	\$20,000	\$9,710	1,845	\$21,652
Mumford Hall	Aug-14 -		Sep-14 -Aug-15	100,151	-3.26 %	-268	\$28,400	\$695	660	\$11,176
International Studies Building	Sep-14 -		Oct-14 -Sep-15	24,473	18.37 %	1,425	\$26,600	\$10,871	3,236	\$23,882
Law Building	Nov-14 -		Dec-14 -Nov-15	189,730	25.26 %	7,778	\$131,480	\$65,765	14,848	\$127,627
Talbot Laboratory	Nov-14 -		Dec-14 -Nov-15	110,529	28.47 %	4,911	\$64,000	\$33,717	8,343	\$60,357
Campus Recreation Center - East	Dec-14 -		Jan-15 -Dec-15	104,575	40.39 %	14,772	\$120,000	\$111,992	25,221	\$193,088
Ceramics Building	Jan-15 -		Feb-15 -Jan-16	54,017	9.63 %	774	\$24,000	\$7,795	1,835	\$16,921
Davenport Hall	Jan-15 -		Feb-15 -Jan-16	110,943	39.08 %	10,934	\$107,000	\$83,408	18,671	\$137,222
Transportation Building	Mar-15 -		Apr-15 -Mar-16	51,445	31.08 %	3,928	\$43,000	\$26,284	5,465	\$38,862
Ceramics Kiln House	Mar-15 -		Apr-15 -Mar-16	15,697	36.86 %	435	\$5,600	\$4,802	661	\$7,432
Activities & Recreation Center	Apr-15 -		May-15 -Apr-16	442,235	35.69 %	33,372	\$300,000	\$238,565	44,459	\$330,268
Rehabilitation Education Center	May-15 -		Jun-15 -May-16	42,080	25.37 %	1,798	\$25,000	\$14,782	2,259	\$19,132
FY 2015 Totals				1,446,211		84,210	\$1,067,080	\$647,725		
Swanlund Administration Building	Sep-15 -		Oct-15 -Sep-16	33,805	31.84 %	1,006	\$14,000	\$6,197	1,308	\$8,587
FY 2016 Totals				33,805		1,006	\$14,000	\$6,197		
Grand Total				8,387,106		603,269	\$7,045,725	\$5,283,034	3,466,716	\$37,448,462
Average					26.98 %					

RCx Economic Summary to Date, Jul 2016

Variable Cost Utility Rates

Variable Cost Utility Rates

Chilled Water-Variable

MBTU

Start Date	End Date	Rate
07/30/15		9.0657
07/28/14	07/29/15	7.9332
07/30/13	07/27/14	8.6300
07/30/12	07/29/13	9.8900
07/01/10	07/29/12	6.9302
07/01/09	06/30/10	6.3600
07/01/08	06/30/09	6.0850
07/01/07	06/30/08	7.0900
07/01/06	06/30/07	5.6700
07/01/05	06/30/06	5.8600

Electric-Variable

KWH

Start Date	End Date	Rate
07/30/15		0.0429
07/28/14	07/29/15	0.0400
07/30/13	07/27/14	0.0409
07/30/12	07/29/13	0.0412
07/01/10	07/29/12	0.0497
07/01/09	06/30/10	0.0478
07/01/08	06/30/09	0.0684
07/01/07	06/30/08	0.0392
07/01/06	06/30/07	0.0328
07/01/05	06/30/06	0.0433

Gas-Variable

THERM

Start Date	End Date	Rate
07/28/14		0.0507
07/30/13	07/27/14	0.5070
07/30/12	07/29/13	0.5450
07/01/11	07/29/12	0.7744
07/01/10	06/30/11	0.6593
07/01/09	06/30/10	0.7220
07/01/08	06/30/09	0.9091
07/01/07	06/30/08	0.8289

**RCx Economic Summary to Date, Jul 2016
Variable Cost Utility Rates**

Payable Electric Variable	KWH	Start Date	End Date	Rate
		07/30/15		0.0429
		07/30/13	07/29/15	0.0409
		10/03/10	07/29/13	0.0746
Payable Gas Variable	THERM	Start Date	End Date	Rate
		07/30/13		0.5250
		10/03/10	07/29/13	0.5600
Steam-Variable	1000 LBS	Start Date	End Date	Rate
		07/30/15		6.5531
		07/28/14	07/29/15	7.2659
		07/30/13	07/27/14	7.4372
		07/30/12	07/29/13	8.2898
		07/01/10	07/29/12	10.4730
		07/01/09	06/30/10	11.1900
		07/01/08	06/30/09	9.3500
		07/01/07	06/30/08	12.4400
		07/01/06	06/30/07	9.7100
07/01/05	06/30/06	10.7100		

RCx efforts typically result in a payback of 2 years or less.

Energy savings are calculated by comparing the annual cost savings time period after the RCx visit with previous year period month for month.

Cumulative savings are calculated by comparing additional months after a year with the same base year (2007, FY08/09) for the first year savings.

These values are calculated from the metered data and could also reflect lighting retrofits and other energy savings projects at a specific site or general campus infrastructure.