

OCC Set 5

Case No. 10-176-EL-ATA
Ohio Edison Company, The Cleveland Electric Illuminating Company and The Toledo Edison Company for Approval of a New Rider and Revision of an Existing Rider

RESPONSES TO REQUEST**OCC
Set 5-57**

With respect to each FirstEnergy EDU's (CEI, TE, and OE) Load Research data, for each sample customer with valid data that was sampled, what is the five years of the most recent data available for the following: (as noted in the instructions, please provide the information in an electronic format):

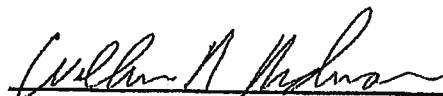
- a. Customer identification number?
- b. Customer rate schedule?
- c. Strata to which it belongs and weighting factors of each strata?
- d. Raw hourly usage data (i.e., unadjusted, simply the data originally gathered for each sample)?
- e. Raw hourly usage data modified to reflect losses?
- f. On an hourly basis, any additional calibrations that are applied to the Load Research data?
- g. Copies of the formulas (and data) used to expand the Load Research data up to the population as a whole as used in any class cost of service study? (This information should include number of customers in the population of each class/schedule)
- h. The hourly load for each rate schedule and/or special contract customers that is measured or calculated on a census basis as opposed to using load research data?

Response: Objection. The request is overly broad, unduly burdensome, vague and seeks information that is irrelevant and not calculated to lead to the discovery of admissible evidence, and would require the disclosure of confidential customer information. Subject to and without waiving the objections, Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company do not have the requested information.

VERIFICATION

STATE OF OHIO)
) SS:
COUNTY OF SUMMIT)

William R. Ridmann, being first duly sworn, deposes and states that he is a duly authorized representative of Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company, that the foregoing responses, other than objections, to Office of Consumers' Counsel interrogatories, request for admission, and requests for production of documents, Set 5, are true to the best of his knowledge and belief based upon information made available to him, and, therefore, the foregoing responses are certified on behalf of Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company in the litigation captioned *In the Matter of the Application of Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company for Approval of a New Rider and Revision of an Existing Rider*, PUCO No. 10-176-EL-ATA.



William R. Ridmann
Vice President
Rates and Regulatory Affairs

SWORN TO before me and subscribed in my presence, this 20th day of July,
2010.



Notary Public

Michela A. Buchtel
Resident Summit County
Notary Public, State of Ohio
My Commission Expires: 08/28/11

HEATING FUEL COMPARISON CALCULATOR

Version: HEAT-CALC-V01-D-1-09-06

This calculator can be used to compare residential heating fuel prices and costs. To use this calculator, enter information into the yellow-colored cells as necessary. The information in the green cells is calculated for you. Scroll down and right to see all information on this page. Detailed instructions are provided in the instructions (click on tab at bottom of your screen). Contact local suppliers for most accurate prices. This calculator will not provide an estimate of the cost to heat your home.

Fuel Type	Fuel Unit	Fuel Price Per Unit (Dollars)	Fuel Cost Per Unit (Dollars)	Efficiency Rating (%)	Adjusted Efficiency Rating (%)	Adjusted Fuel Cost Per Unit (Dollars)	Notes
Fuel Oil (#2)	Gallon	\$2.65	\$2.65	80.0	78.0	\$2.65	Used U.S. average for October 2009 to March 2010.
Electricity	kWh	\$0.061	\$0.061	98.0	98.0	\$0.061	Used U.S. average for October 2009 to March 2010.
Natural Gas	Therm	\$1.11	\$1.11	90.0	80.0	\$1.11	Used U.S. average for October 2009 to March 2010.
Propane	Gallon	\$2.11	\$2.11	80.0	78.0	\$2.11	Used U.S. average for October 2009 to March 2010.
Wood	Cord	\$200.00	\$200.00	65.0	55.0	\$200.00	Used U.S. average for October 2009 to March 2010.
Pellets	Ton	\$250.00	\$250.00	65.0	55.0	\$250.00	Used U.S. average for October 2009 to March 2010.
Corn (kernel)	Ton	\$200.00	\$200.00	65.0	55.0	\$200.00	Used U.S. average for October 2009 to March 2010.
Kerosene	Gallon	\$3.20	\$3.20	80.0	80.0	\$3.20	Used U.S. average for October 2009 to March 2010.
Coal (Anthracite)	Ton	\$200.00	\$200.00	75.0	75.0	\$200.00	Used U.S. average for October 2009 to March 2010.

NOTES:

- Natural gas is typically sold to residential customers in units of "therms," but may be sold in units of hundreds of cubic feet (ccf).
- One therm = 100,000 Btu, and is equivalent to about 97.18 cubic feet (or 0.972 ccf), when there are 1,029 Btu/ccf. To convert prices in \$/Mcf (1,000 cubic feet) to \$/therm, divide the \$/Mcf price by 10.29.
- The heat content value for a cord of wood varies by tree species and is greatly affected by moisture content; 20 million Btu per cord is a rough approximation.
- For definitions of Efficiency Ratings and referrals to where they can be obtained, click on the EFFICIENCY INFO tab below.
- Some types of heaters do not have efficiency ratings; the ratings in the yellow cells are comparable estimates for new appliances with basic features. The default values are the minimum efficiency standards set by the U.S. Department of Energy. Estimated "ratings" are provided for heating equipment for which there are no DOE standards.
- Air-Source Heat Pump Ratings: The actual heating efficiency and seasonal performance of a "conventional" air-source heat pump may vary significantly from its rated heating season performance factor (HSPF). Below is a procedure for determining an adjusted HSPF for your location for an air-source heat pump that uses only electric resistance heating as the auxiliary heat source. There are so-called "dual-fuel" or "hybrid" heat pump systems that are basically a heat pump integrated with a forced-air combustion appliance that uses natural gas, fuel oil or propane. In general, these systems use the heat pump for heating until outside temperatures reach the low 40's/high 30's (°F), then switch to the combustion appliance for heating. The adjustment below does not apply to those types of hybrid heat pump/combustion appliance heating systems. See the Technical Note for Air Source Heat Pumps in the EFFICIENCY INFO tab below for details on how the adjusted HSPF is calculated.

State	City	Latitude	Longitude	Adjusted HSPF	Adjusted Fuel Cost
AL	Huntsville	34.7	-86.5	8.4	20
	Mobile	30.7	-88.1	9.8	30
	Montgomery	32.3	-86.3	9.4	27
	Cleveland and Columbus	39.8	-83.0	6.7	6

Support for using 2006 for heat pump annual efficiency
www.eia.doe.gov/vec/experts/heatcalc.xls

D.O.E. tool to calculate annual efficiency by area
 Also, manufacturers have been telling FE: 2006 for years.

Residential All Electric Winter Month Credits (Sept - May)									
CEI	Sheet No.	Description	Residential Distribution Credit (RDC) Cents/kWh > 500 kWh	Non-Standard Generation Credit Provision - Res, EDR(a) Cents/kWh > 500 kWh	Residential Generation Credit (RGC) Cents/ all kWh	Total Wires Customers*	Non-Heating Customers*	Heating Customers*	
	10	Standard	0.00	0.00	0.00				
	10	Optional Load Management	1.70	1.90	4.20	2,300	1,900	400	
	11	Add-On Heat Pump	1.70	1.90	4.20	3,700	3,000	700	
	12	Water Heating	1.70	0.50	0.00				
	13	Space Heating	1.70	1.90	4.20	3,500	800	2,700	
	14	Water & Space Heating	1.70	1.90	4.20	27,900	4,100	23,800	
	15	Optional Electrically Heated Apt	1.70	1.90	4.20	2,700	700	2,000	
		TOTAL ELECTRIC HEATING CUSTOMERS				40,100	10,500	29,600	
OE	Sheet No.	Description	Cents/kWh > 500 kWh	Cents/kWh > 500 kWh	Cents/kWh > 1250kWh	Total Wires Customers*	Non-Heating Customers*	Heating Customers*	
	10	Standard	0.00	0.00	0.00				
	11	Space Heating	1.77	1.90	3.90	73,700	13,400	60,300	
	12	Optional Time-of-Day	1.77	1.90	3.90	300	100	200	
	14	Optional Controlled Heating	1.77	1.90	3.90	22,600	15,000	7,600	
	17	Load Management	1.77	1.90	3.90	144,200	107,500	36,700	
	18	Water Heating	1.77	0.00	0.00				
	19	Optional Electrically Heated Apt	1.77	1.90	3.90	2,800	800	2,000	
		TOTAL ELECTRIC HEATING CUSTOMERS				243,600	136,800	106,800	
TE	SheetNo.		Cents/kWh > 500 kWh	Cents/kWh > 500 kWh	Cents/kWh < 2000 kWh, Cents/kWh > 2000 kWh	Total Wires Customers*	Non-Heating Customers*	Heating Customers*	
	10	Standard	0.00	0.00	0.00, 0.00				
	11	Add-On Heat Pump R-02	1.76	1.90	0.00, 1.80	100	100	-	
	13	Space & Water Heating R-06	1.76	1.90	0.00, 1.80	300	100	200	
	14	Space & Water Heating R-06a	1.76	1.90	0.00, 1.80	-	-	-	
	15	Water Heating R-04	1.76	0.50	0.00, 0.00				
	16	Water Heating R-04a	1.76	0.50	0.00, 0.00				
	17	Space Heating R-07	1.76	1.90	0.00, 1.80	30,300	10,200	20,100	
	18	Space Heating R-07a	1.76	1.90	0.00, 1.80	1,700	600	1,100	
	19	Apartment R-09	1.76	1.90	3.10, 0.00	1,500	400	1,100	
	20	Apartment R-09a	1.76	1.90	3.10, 0.00	100	-	100	
		TOTAL ELECTRIC HEATING CUSTOMERS				34,000	11,400	22,600	
						317,700	158,700	159,000	

*Based on August 2010 customer numbers, rounded to the nearest 100.

SUMMARY OF PROPOSED RGC CREDITS**CEI RGC PROPOSED CREDITS**

	Block 1 (kWh)	Rate (\$/kWh)	Block 2 (kWh)	Rate (\$/kWh)
Winter 2010/11*	First 500	-0.0420	Over 500	-0.0420
Winter 2011/12	First 500	-0.0297	Over 500	-0.0278
Winter 2012/13	First 500	-0.0175	Over 500	-0.0207
Winter 2013/14	First 500	-0.0049	Over 500	-0.0139

OE RGC PROPOSED CREDITS

	Block 1 (kWh)	Rate (\$/kWh)	Block 2 (kWh)	Rate (\$/kWh)
Winter 2010/11*	N/A		Over 1250	-0.0390
Winter 2011/12	1500-2000	-0.0004	Over 2000	-0.0261
Winter 2012/13	2000-3500	-0.0036	Over 3500	-0.0190
Winter 2013/14	N/A		Over 5500	-0.0116

TE RGC PROPOSED CREDITS

	Non-Apartment		Apartment	
	Block 1 (kWh)	Rate (\$/kWh)	Block 1 (kWh)	Rate (\$/kWh)
Winter 2010/11*	Over 2000	-0.0180	First 2000	-0.0310
Winter 2011/12	Over 2000	-0.0105	First 2000	-0.0255
Winter 2012/13	N/A	0.0000	First 2000	-0.0153
Winter 2013/14	N/A	0.0000	First 2000	-0.0067

*Actual RGC credit effective as of March 2010.