PECO Default Service Program - RFP Data Room Data Series Overview: General Descriptions and Assumptions March 27, 2009

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I. DESCRIPTION OF SUPPLY TO BE PROCURED IN PECO RFP

Default Service Load, also known as Provider of Last Resort (POLR) Load, is the load associated with PECO's retail customers who have not elected to receive service from an Electric Generation Supplier ("EGS") in PECO's territory. A PECO customer who elects <u>not</u> to procure retail electric supply from an EGS is a default service customer. The PECO Default Service load is calculated by subtracting the load served by EGSs from the retail load served within the PECO zone. PECO currently does not have "wholesale customers" such as municipal or cooperative electric utilities serving load within the PECO service territory. The only other Load Serving Entities within the PECO service territory at present are EGSs.

Prospective Suppliers will have the opportunity to serve PECO Default Service Load by bidding in the Full Requirements RFP.

All data in the Data Room is provided for informational purposes only. PECO has compiled the data in good faith from sources believed by PECO to be reliable but does not warrant the accuracy of the data.

It is the responsibility of prospective suppliers as well as all other parties that use the posted data to determine whether and how to apply the data. Prospective suppliers as well as all other parties assume all risk associated with utilizing the data.

PECO is only able to provide Default Service Load data to which it has access.

The data items posted to the Data Room and referenced in this document were assembled in conjunction with and consistent with the PECO Default Service Program and Rate Mitigation Plan filing (Pennsylvania Public Utility Commission Docket No. P-2008-2062739).

II. GENERAL INFORMATION

A. REPORT FORMATS AND PERIOD COVERED

PECO aims to post a minimum of three years of history for time series data, except for hourly PJM Deration Factors and PJM RPM Daily Zonal Scaling Factors, which do not have a three year history (see report details for more information). PECO will update most files on a monthly basis.

Please note that all energy (system load) reported represents energy including PECO's 60-day 'energy reconciliation service' settlement with PJM, and therefore PECO will post all energy reports with a two-month lag.

Hourly reports align with Eastern Prevailing Time. For instance, Hour 1 pertains to the hour between 12:00 a.m. EPT and 1:00 a.m. EPT. Daylight Savings Time (DST) is treated as follows:

- Hourly reports spanning the Fall DST period contain 25 consecutive hours.
- Hourly reports spanning the Spring DST period contain 23 consecutive hours.

Data files will be posted to the Data Room as zip, Excel spreadsheet and comma-delimited Excel file formats.

B. CUSTOMER LOAD PROFILE ASSUMPTIONS

PECO currently applies static load profiles (kW vs. weather response functions, that are fixed) to monthly-metered customers. Customer load profiles do not apply to customers with interval or recorder meters. These load profiles are used to develop hourly load responsibilities related to customers served by EGSs and default service customers for the purpose of performing unaccounted-for energy calculations.

PECO is currently conducting a load study that will be used to develop new static load profiles for monthly-metered customers. PECO will use these new load profiles beginning on January 1, 2011. PECO plans to release information on the new load profiles when it becomes available, at the earliest in the fourth quarter of 2009. PECO has developed and will develop hourly load data by customer group for monthly metered customers for the historic periods of 2006 through 2010 using the current static load profiles. PECO will not be able to retrofit new load profiles to the historic hourly load data that is provided.

C. CUSTOMER PROCUREMENT CLASSES

A "Procurement Class" or "Class" is a grouping of customers on PECO's existing rate schedules. There are four Procurement Classes: Residential ("R"), Small Commercial ("SC"), Medium Commercial ("MC"), and Large Commercial and Industrial ("LC&I"). The specific rate schedules for each Procurement Class are shown in Table 1 with a brief description of the customers included within each Class. PECO will group all customers in this manner, regardless of whether they are default service customers or customers served by an EGS.

Table 1. Rate Schedule and Procurement Class Descriptions

Class	Customers Included	Rate Schedule	Description	
Residential	All residential customers	R	Residence Service	
		RH	Residential Heating Service	
		OP	Off-Peak Service	
Small Non-residential customers in GS General Service		General Service		
Commercial	rate schedules GS, HT, and PD	HT	High-Tension Power	
	with Peak Load Contribution	PD	Primary -Distribution Power	
	< 100kW and customers	AL	Alley Lighting	
	in rate schedules	TL	Traffic Lighting Service	
	AL, TL, POL, SLE, SLS	POL	Private Outdoor Lighting	
	and SLP	SLE	Street Lighting Customer-Owned Facilities	
		SLS	Street Lighting-Suburban Counties	
		SLP	Street Lighting in City of Philadelphia	
Medium	Non-residential customers	GS	General Service	
Commercial with Peak Load Contribution HT		HT	High-Tension Power	
	Between 100kW and 500 kW	PD	Primary -Distribution Power	
Large	Non-residential customers	GS	General Service	
Commercial	with Peak Load Contribution	HT	High-Tension Power	
& Industrial	> 500kW	PD	Primary -Distribution Power	
		EP	Electric Propulsion	

PECO does not currently aggregate customer data based upon the above Classes. To ensure that existing commercial and industrial customer load is assigned to the proper Class for the purposes of the RFP, PECO has aggregated and will aggregate the data provided for periods from January 2006 through December 2010 in order to map commercial and industrial loads to the appropriate Classes.

D. STRATA DESCRIPTIONS

PECO defines a "strata" as a load profile existing within a particular rate schedule. Table 2 shows PECO's current strata, the rate schedules to which each strata maps, and a brief description of each strata. These strata will remain in use through December 31, 2010. As of January 1, 2011, in parallel with implementing new load profiles mentioned above, PECO plans to update and potentially streamline these strata criteria.

Table 2. Strata / Rate Schedule Mapping and Descriptions

Strata	Rate Schedule	Strata Description		
001	GS	With peak demands between 0-7.0KW		
002	GS	With peak demands between 7.1-10.0KW		
003	GS	With peak demands between 10.1-15.0KW		
004	GS	With peak demands between 15.1-25.0KW		
005	GS	With peak demands between 25.1-40.0KW		
006	GS	With peak demands greater than 40.0KW		
007	GS	W/o demand measurement - annualized avg monthly usage between 0-300KWH		
008	GS	W/o demand measurement - annualized avg monthly usage between 301-600KWH		
009	GS	W/o demand measurement - annualized avg monthly usage greater than 600KWH		
010	OP	Cycle 1 Restricted and Unrestricted (5-day radio, 7-day mechanical)		
011	R	Annualized average monthly usage between 0KWH and 300KWH		
012	R	Annualized average monthly usage between 301KWH and 450KWH		
013	R	Annualized average monthly usage between 451KWH and 600KWH		
014	R	Annualized average monthly usage between 601KWH and 800KWH		
015	R	Annualized average monthly usage between 801KWH and 1000KWH		
016	R	Annualized average monthly usage greater than 1000 KWH		
041	RH	Heat Pumps with Electric Resistance Back-up As of January 1, 2008, PECO eliminated strata 042 and strata 043 (below) and consolidated both within this strata (041).		
042	RH	Electric Resistance This strata existed until January 1, 2008, at which time it was eliminated and consolidated with Strata 041.		
043	RH	Heat pumps with Fossil Fuel Back-up This strata existed until January 1, 2008, at which time it was eliminated and consolidated with Strata 041.		
051	HT	Philadelphia Industrial Customers with Peak Demand Over 2000KWH Annually		
052	HT	Philadelphia Commercial Customers with Peak Demand Over 2000KWH Annually		
053	HT	Suburban Industrial Customers with Peak Demand Over 2000KWH Annually		
054	HT	Suburban Commercial Customers with Peak Demand Over 2000KWH Annually		
055	HT	Industrial Customers with Peak Demand Under 2000KWH Annually		
056	HT	Commercial Customers with Peak Demand Under 2000KWH Annually		
057	PD	Commercial Customers With High Load Factor		
058	PD	Commercial Customers With Low Load Factor		
059	PD	Industrial Customers With High Load Factor		
060	PD	Industrial Customers With Low Load Factors		
061	EP	Electric Propulsion / Railroads		
070	SLE	Street Lighting		
071	SLS	Street Lighting		
072	SLP	Street Lighting		
073	POL	Private Outdoor Lighting		
075	TL	Traffic Lighting		

E. MAPPING OF PROCUREMENT CLASSES TO CURRENT STRATA

The PECO system for using load profiles and developing data for PJM settlements does not associate monthly energy settlement data by strata and rate schedule with Classes as there is no need to do so under the current supply arrangements. To provide load data by customer supply group (Class) for periods prior to December 2010, PECO developed Class Factors for each strata and rate schedule to allocate each rate schedule/strata combination to the four Classes. For example, historic energy associated with Schedule GS/Strata 004 is .9900 (99.0%) allocated to the SC Class; .0060 (0.6%) allocated to LC&I; and .0040 (0.4%) allocated to MC. This mapping is the basis for all data provided in PECO's energy (system load) reports within the Data Room. Table 3 below displays the results of this mapping and the associated factors.

Table 3. Rate Schedule / Strata Mapping to Procurement Classes and Factors

Rate	Ctroto	Class	Class Factor
Schedule Strata			
GS	001	Small Commercial	1.0000
GS	002	Small Commercial	1.0000
GS	003	Small Commercial	1.0000
GS	004	Small Commercial	0.9900
GS	004	Large Commercial and Industrial	0.0060
GS	004	Medium Commercial	0.0040
GS	005	Small Commercial	1.0000
GS	006	Small Commercial	0.3320
GS	006	Medium Commercial	0.5650
GS	006	Large Commercial and Industrial	0.1030
GS	007	Small Commercial	1.0000
GS	800	Small Commercial	0.9990
GS	800	Medium Commercial	0.0010
GS	009	Small Commercial	1.0000
OP	010	Residential	1.0000
R	011	Residential	1.0000
R	012	Residential	1.0000
R	013	Residential	1.0000
R	014	Residential	1.0000
R	015	Residential	1.0000
R	016	Residential	1.0000
RH	041	Residential	1.0000
RH	042	Residential	1.0000
RH	043	Residential	1.0000
OP	044	Residential	1.0000
HT	051	Large Commercial and Industrial	1.0000
HT	052	Large Commercial and Industrial	1.0000
HT	053	Large Commercial and Industrial	1.0000
HT	054	Large Commercial and Industrial	1.0000
HT	055	Small Commercial	0.0140
HT	055	Large Commercial and Industrial	0.6650

Rate Schedule	Strata	Class	Class Factor
HT	055	Medium Commercial	0.3210
HT	056	Large Commercial and Industrial	0.5000
HT	056	Small Commercial	0.0100
HT	056	Medium Commercial	0.4900
PD	057	Large Commercial and Industrial	0.0970
PD	057	Small Commercial	0.0590
PD	057	Medium Commercial	0.8440
PD	058	Large Commercial and Industrial	0.2270
PD	058	Small Commercial	0.0260
PD	058	Medium Commercial	0.7470
PD	059	Small Commercial	0.0130
PD	059	Large Commercial and Industrial	0.2690
PD	059	Medium Commercial	0.7180
PD	060	Medium Commercial	0.8670
PD	060	Small Commercial	0.0340
PD	060	Large Commercial and Industrial	0.0990
EP	061	Large Commercial and Industrial	1.0000
SLE	070	Small Commercial	1.0000
SLS	071	Small Commercial	1.0000
SLP	072	Small Commercial	1.0000
POL	073	Small Commercial	1.0000
SL	074	Small Commercial	1.0000
TL	075	Small Commercial	1.0000
AL	076	Small Commercial	1.0000

III. DESCRIPTIONS OF DATA SERIES

A. HOURLY ENERGY

Description

PECO zonal hourly energy (i.e. system load) associated with all PECO customers, total zonal hourly energy for default service customers and total zonal hourly energy for customers being served by EGSs. These same data are also provided for each Procurement Class.

Please note that all energy (system load) reported by PECO is energy following PECO's 60-day settlement (energy reconciliation service) with PJM. Therefore PECO provides all energy reports on a two-month lag.

2. Available Reports

- a. Hourly Energy for PECO Zone (includes aggregated totals for all four of PECO's Classes and contains totals for aggregate zone load, default service load, and EGS-supplied load)
- b. Hourly Energy for the R Class (contains totals for Class load, Class default service load, and Class EGS-supplied load)
- c. Hourly Energy for the SC Class (contains totals for Class load, Class default service load, and Class EGS-supplied load)
- d. Hourly Energy for the MC Class (contains totals for Class load, Class default service load, and Class EGS-supplied load)

3. Assumptions

All values are "fully loaded," meaning they include applicable distribution and transmission system losses. These hourly load values, post marginal loss implementation are not equivalent to PJM settlement volumes as, post marginal loss implementation, these values will be de-rated by PJM for marginal losses prior to energy settlement. PECO is also supplying hourly marginal loss deration factors.

PECO allocates UFE to all Load Serving Entities in the PECO zone (i.e., to EGS and default service Load Serving Entities) each month based on load-ratio share. Note that PECO only allocates UFE to monthly-metered customers and does <u>not</u> allocate UFE to hourly / interval metered customers. Hence to the extent that the load values provided in the above energy reports are developed from monthly meter readings and load profiles they include UFE. Hourly energy values developed from interval or recorder meters do not include UFE. Post 2010, PECO plans to continue allocating UFE only to monthly-metered customers.

PECO has adjusted all aggregate zone load values to account for PJM meter corrections.

PECO will provide additional data for the LC&I Class at a later date.

B. PEAK LOAD SHARE (CAPACITY)

1. Description

Daily Capacity Peak Load Contributions ("PLCs") for the total retail load, including load for default service customers as well as customers being served by an EGS, for default service

customers and for customers served by EGSs.

2. Available Reports

- a. Daily PECO PLC (for PECO zone includes aggregated totals for all Classes and contains totals for aggregate zone load, default service load, and EGS-supplied load)
- b. Daily PECO PLC for the R Class (contains totals for all customers, default service customers, and EGS-supplied customers)
- c. Daily PECO PLC for the SC Class (contains totals for all customers, default service customers, and EGS-supplied customers)
- d. Daily PECO PLC for the MC Class (contains totals for all customers, default service customers, and EGS-supplied customers)

3. Assumptions

PECO calculates PLCs by first assigning each account an individual PLC and then totaling all account PLCs for a given day to produce aggregate PLC results; this is also known as a "bottom-up" calculation.

Prior to January 1, 2008, PLCs were submitted by Electric Distribution Companies (EDCs) to PJM effective from January 1 through December 31st of a calendar year. Beginning in 2008, PJM made a change for PLCs to be effective for June 1 through May 31, coincident with the PJM planning year.

PECO will provide additional data for the LC&I Class at a later date.

C. PJM RELIABILITY PRICING MODEL (RPM) DAILY ZONAL SCALING FACTORS

In order to calculate PECO's daily Unforced Capacity (UCAP) obligation on a daily basis, PJM adjusts the daily PLCs submitted by PECO to a zonal RPM load target by calculating and applying a daily scaling factor. This report provides a list of these scaling factors by day.

PJM implemented RPM in June 2007. As such, PECO is able to provide PJM RPM scaling factor data as far back as June 1st, 2007.

Please note that PLCs are also adjusted by other scaling factors. Those scaling factors can be found at: http://pjm.com/markets-and-operations/rpm/rpm-auction-user-info.aspx.

D. PEAK LOAD SHARE (TRANSMISSION)

1. Description

Daily Network Transmission Service Peak Loads ("NSPLs") for the total retail load, including load for default service customers as well as customers being served by an EGS.

2. Available Reports

- a. Daily PECO Zone NSPL (for PECO zone includes aggregated totals for all Customer Supply Groups and contains totals for aggregate zone load, default service load, and EGS-supplied load)
- b. Daily PECO NSPL for the R Class (contains totals for all customers, default service customers, and EGS-supplied customers)
- c. Daily PECO NSPL for the SC Class (contains totals for all customers, default service customers, and EGS-supplied customers)
- d. Daily PECO Network Service Peak Load (NSPL) for the MC Class (contains totals for all customers, default service customers, and EGS-supplied customers)

3. Assumptions

PECO calculates NSPLs by first assigning each account an individual NSPL and then totaling all account NSPLs for a given day to produce aggregate NSPL results; this is also known as a "bottom-up" calculation.

All EDCs within PJM are required to update annual NSPL data by January 1, with those NSPLs effective from January 1 through December 31 of a calendar year.

PECO will provide additional data for the LC&I Class at a later date.

E. HOURLY PECO ZONE UNACCOUNTED FOR ENERGY (UFE)

The hourly MW variance between PECO's total retail hourly energy (system load) and the sum of (a) the estimated hourly customer loads (both interval metered and profiled) and (ii) electrical losses. The report contains totals for aggregate zone load, default service load, and EGS-supplied load.

F. CUSTOMER COUNTS

1. Description

Total number of PECO customers in a particular Class by rate schedule and strata combination as of the last calendar day of the previous month, including counts for default service customers and customers served by EGSs. Each report contains several records per day based on the number of rate schedules and strata that map to each Class. Each report also contains totals for aggregate zone load, default service load, and EGS-supplied load.

Prospective suppliers can use this as a source of switching data, or data indicating the number of customers that have switched to or from retail EGSs.

2. Available Reports

- a. Monthly Counts for the R Class
- b. Monthly Counts for the SC Class
- c. Monthly Counts for the MC Class

3. Assumptions

PECO will provide additional data for the LC&I Class at a later date.

G. HOURLY PJM DERATION FACTORS FOR PECO ZONE

Hourly state-estimated factors applied to the PECO zone by PJM to adjust fully loaded energy schedules for those marginal losses that are already accounted for in PJM's Locational Marginal Prices (LMPs). Deration factors are applied to the energy (system load) in the above energy reports as follows, using fully loaded aggregate zone load as an example:

Derated aggregate PECO zone load =

Fully loaded aggregate zone load * [1/(1 - Deration Factor)]

PJM began applying marginal loss deration factors in June 2007 with its implementation of "Marginal Losses". Therefore, PECO does not have deration factor data prior to that date.

H. PJM BILLING INFORMATION

1. Available Reports and Descriptions

- a. Historical PJM Billing Data for PECO. Selected historical monthly PJM billing data for PECO default load, including inadvertent energy and ancillary services. This report includes the PJM billing line item description, the total dollars charged or credited to PECO for the associated line item in a given month, and the associated default load (in megawatt hours) for the month associated with the monthly dollar amounts. Data for this report is available as of June of 2007, coincident with PJM's implementation of its Reliability Pricing Model (RPM). PECO will provide data for periods from June 2007 up to and including December 2010.
- b. PJM Billing Statement Line Items. This report lists all PJM billing line items that currently appear on PECO's monthly PJM billing statement. For each charge and credit, the report includes the PJM line item ID number and description as well as a notation assigning responsibility for the charge either PECO or the Default Supplier. Items allocated to a Default Supplier will appear either on that supplier's PJM monthly billing statement or on the supplier's monthly default service invoice from PECO, dependent upon the ability of PJM to allocate each particular item on PECO's behalf. This report will be updated approximately two months prior to each procurement, rather than on a monthly basis like the above report.

2. Assumptions

As mentioned previously, PECO only has access to its own data and does not have access to any other data from other entities like EGSs, which means it can only provide PJM Billing data associated with its own Default Service Load.

PECO expects that PJM billing line item descriptions will change over time, as has been the case historically. As a result, the line items appearing in all of the above reports reflect current PJM billing line items as of report publication and do not necessarily correspond to the line items referenced in the sample PJM invoice constituting Exhibit D of PECO's Default Service Supply Master Agreement within the PECO Default Service Program and Rate Mitigation Plan filing (PUC Docket No. P-2008-2062739).

IV. USE OF DATA

These data items are provided by PECO for informational purposes only. PECO has compiled the data in good faith from sources believed by PECO to be reliable but does not warrant the accuracy of the data. Further, there is no representation that this data is indicative of future outcomes.

By use of these data, prospective suppliers as well as other parties agree to assume all risks associated therewith. Without limitation of the foregoing, prospective bidders and other parties should carefully assess the uncertainty associated with future load obligations, including variations in customer usage and migration to Electric Generation Suppliers.