

Part I - Table 1. Summary of Existing EDC Demand Side Response (DSR) Programs: Large C&I

EDC	Program	Description; Participation Levels (#Customers; MWh Enrolled); Event Responses (Participation Trends-Last Yr.)	Eligible Participants	Special Requirements	Tariff (Y/N)
2007 - FIRST ENERGY Met-Ed & Penelec	-- Voluntary Load Reduction Program	-- Customers voluntarily commit to reduce specified level of hourly load in response to day-ahead or day-of price offer from FirstEnergy. Offers may be made 12 months of the year according to market energy rates. Program parameters are consistent with and can compliment PJM's programs, where appropriate.	-- C & I	-- Interval Meter; Internet access	-- No
	-- Seasonal Savings Program	-- Customers contract to reduce specified level of hourly load in response to two-hour to day-ahead "call". Program provides fixed monthly incentives. Customers are also paid fixed rate (\$/kWh) for actual load reductions.	-- C & I	-- Interval Meter; Internet access	-- No
	-- Rider 18	-- Existing Tariff provisions allowing mandatory/semi-mandatory load reductions. Proposed to be eliminated in pending Met-Ed/Penelec transition plan.	-- C & I	-- Existing full service customers served under these provisions as of 1998	-- Yes
	-- Distributed Generation	-- The Companies will explore the use of distributed generation on an individualized basis.	-- C & I	-- On-site Generation	-- No
	-- Time of Use	-- See description under residential/small commercial	-- R, C&I	-- Available to customers with time of day metering	-- Yes
Penn Power	-- Hourly Pricing Service	-- Customers at 500 kW or greater may participate in program and respond to real time LMP as specified by the Midwest ISO. Prices are made publicly available by Midwest ISO. There are 10 participants.	-- C & I	-- Interval meter, internet access	-- Yes
	-- Off-peak demand	-- Customers' measured demand is greater of the on-peak demand or ¼ of the off-peak demand. Approximately 450 C&I customers take advantage of off-peak demand. Rate schedules are GS, GM and GP.	-- C&I	--Grandfathered to existing customers as of Jan1, 2007. Appropriate demand meter.	-- Yes
2007	2007 Added info on TOU & Off-peak demand programs	2007	2007	2007	2007

Part I - Table 2. Summary of Existing EDC Demand Side Response (DSR) Programs: Small Commercial/Residential

EDC	Program	Description; Participation Levels (#Customers; MWh Enrolled); Event Responses (Participation Trends-Last Yr.)	Eligible Participants	Special Requirements	Tariff (Y/N)
2004 - FIRST ENERGY Met-Ed & Penelec	-- Time of Use Pilot	-- Residential customers can reduce their summer bills by shifting usage from high-cost weekday period. Interested customers can call 800-823-6462. Registration Ends May 31, 2003. Limit - 200 per company. Tariff Rider expired on December 31, 2004. Only 6 customers participated all in Met-Ed's service territory.	-- Residential	-- Existing RS full service Customer with at least 1000 kWh use in summer	-- Yes
	-- Direct Load Control / Other (Residential / Small C&I)	-- FirstEnergy continues to explore the potential to offer cost-effective load response programs to residential and small C&I customers.	-- Residential & Small C&I	-- Ongoing Development	-- No
	-- Time of Use	-- Residential time of use have approximately 55,000 customers at Met-Ed and 23,000 customers at Penelec. C& I time of use rates at Met-Ed have approximately 3,300 customers and at Penelec have approximately 1,800 customers. -- Rate RT(Residential): Met-Ed- Off-peak hours are from 8 am to 8 pm; Customer Charge: \$9.73/month; Distribution Charge-6.371 cents/kWh on-peak; .822 cents/kWh off-peak; Generation (Rider B-Rate RT): 4.606 cents/kWh on-peak; 4.606 cents/kWh off-peak; --Rate RT: Penelec- Off-peak hours from 8 am to 8 pm; Customer charge: \$9.84/month; Distribution charge: 5.811 cents/kWh on-peak; 1.040 cents/kWh off-peak; Generation charge (Rider B-Rate RT): 4.643 cents/kWh on-peak; 4.643 cents/kWh off-peak	-- R, C&I	-- Available to customers with time of day metering	-- Yes
PennPower	-- None	-- None			
2007 – FIRST ENERGY Met-Ed & Penelec	-- Direct Load Control/Other (Residential/Small C&I)	-- FirstEnergy continues to explore the potential to offer cost-effective load response programs to residential and small C&I customers.	-- Residential & Small C&I	-- Existing RS full service Customer with at least 1000 kWh use in summer	-- Yes
	-- Added info on TOU -- Energy Calculator	-- Customers can create a profile of current household energy use, calculate energy used by a variety of appliances & identify ways to reduce consumption & improve efficiency. Also provides info on energy topics.	-- R	-- internet	--No

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Part I - Table 3. Summary of FirstEnergy DSR Program Evaluations: Current & Past Programs

Program	Summary of Evaluations: Current & Past Programs	Reports Available for Review? Yes/No																																										
Met-Ed/Penelec Voluntary Load Reduction Program	<p>Initiated 4 Events – 3 of the 4 impacted System Capacity Obligation</p> <table border="1"> <thead> <tr> <th data-bbox="541 415 688 440">Event Date</th> <th data-bbox="772 415 856 464">Pledged kW</th> <th data-bbox="919 415 1003 464">Average kW</th> <th data-bbox="1087 415 1171 464">Actual kWh</th> <th data-bbox="1234 415 1318 464">Total Payment</th> <th data-bbox="1381 415 1465 464">Average \$ / MWH</th> </tr> </thead> <tbody> <tr> <td data-bbox="541 496 688 553">Tuesday, July 18, 2006</td> <td data-bbox="772 529 856 553">3,025</td> <td data-bbox="919 529 1003 553">2,690</td> <td data-bbox="1087 529 1171 553">13,152</td> <td data-bbox="1234 529 1318 553">\$2,573</td> <td data-bbox="1381 529 1465 553">\$196</td> </tr> <tr> <td data-bbox="541 561 688 618"><i>Tuesday, August 01, 2006</i></td> <td data-bbox="772 594 856 618">6,600</td> <td data-bbox="919 594 1003 618">9,137</td> <td data-bbox="1087 594 1171 618">54,478</td> <td data-bbox="1234 594 1318 618">\$25,143</td> <td data-bbox="1381 594 1465 618">\$462</td> </tr> <tr> <td data-bbox="541 626 688 683"><i>Wednesday, August 02, 2006</i></td> <td data-bbox="772 659 856 683">4,425</td> <td data-bbox="919 659 1003 683">4,609</td> <td data-bbox="1087 659 1171 683">36,210</td> <td data-bbox="1234 659 1318 683">\$9,594</td> <td data-bbox="1381 659 1465 683">\$265</td> </tr> <tr> <td data-bbox="541 691 688 748"><i>Thursday, August 03, 2006</i></td> <td data-bbox="772 724 856 748">7,425</td> <td data-bbox="919 724 1003 748">8,611</td> <td data-bbox="1087 724 1171 748">51,666</td> <td data-bbox="1234 724 1318 748">\$9,672</td> <td data-bbox="1381 724 1465 748">\$187</td> </tr> <tr> <td data-bbox="541 773 625 797">Total</td> <td data-bbox="772 773 856 797">21,475</td> <td data-bbox="919 773 1003 797">25,047</td> <td data-bbox="1087 773 1171 797">155,506</td> <td data-bbox="1234 773 1318 797">\$46,983</td> <td data-bbox="1381 773 1465 797">\$302</td> </tr> <tr> <td></td> <td></td> <td data-bbox="919 870 1003 919">Avg kW 6,262</td> <td></td> <td data-bbox="1234 870 1318 919">Energy \$8,291</td> <td data-bbox="1381 837 1465 919">Capacity Value \$8,851.42</td> </tr> </tbody> </table>	Event Date	Pledged kW	Average kW	Actual kWh	Total Payment	Average \$ / MWH	Tuesday, July 18, 2006	3,025	2,690	13,152	\$2,573	\$196	<i>Tuesday, August 01, 2006</i>	6,600	9,137	54,478	\$25,143	\$462	<i>Wednesday, August 02, 2006</i>	4,425	4,609	36,210	\$9,594	\$265	<i>Thursday, August 03, 2006</i>	7,425	8,611	51,666	\$9,672	\$187	Total	21,475	25,047	155,506	\$46,983	\$302			Avg kW 6,262		Energy \$8,291	Capacity Value \$8,851.42	
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Met-Ed/Penelec Rider E and Rule 20	<p>Total savings of approximately \$94,000, \$94,000 is not net of costs. Proposed to be eliminated in pending Met-Ed/Penelec transition plan.</p>	<p>YES</p>																																										

Part I - Table 4. Summary of Meter Steps Needed to Make Hourly Pricing Available to FirstEnergy Its Customers

Current Status: Availability/Capabilities of Advanced Metering System Infrastructure	Overview of Infrastructure Requirements (Include every aspect from operations center, software to customer location) to Permit All Customers the Ability to Use Hourly Pricing	Costs Associated with Giving All Customers the Ability to Access Hourly Pricing	Future Plans: Approximate Deployment Timeframe
<p>-- 2004 - Interval Meters</p>	<p>-- Without a better understanding of potential cost recovery and/or rate making mechanisms, the Companies are unable to postulate any deployment strategies at this time. Description and estimates will be provided following clarification through discussion and improved definition of concept. Suggest addressing DSR product concepts by customer class, and functionality (e.g. RTP, TOU, direct control, or combinations of the above).</p> <p>Cost estimate investigation should specifically include:</p> <ul style="list-style-type: none"> - Billing System Enhancements - Marketing - Hardware/software - Installation (including any permitting and other process management...) - Communications - Maintenance and Attrition - Reporting - Customer contribution 		
<p>2007 - AMI</p> <p>At present, interval metering is installed on most industrial and large commercial customers at Met-Ed, Penelec and Penn Power</p> <p>Met-Ed currently has 1,045 interval meters Penelec currently has 1,100 interval meters Penn Power currently has 233 interval meters</p>	<p>-- Without a better understanding of potential cost recovery and/or rate making mechanisms, the Companies are unable to postulate any deployment strategies at this time. Description and estimates will be provided following clarification through discussion and improved definition of concept. Suggest addressing DSR through retail or wholesale suppliers (e.g. RTP, TOU, direct control, or combinations of the above).</p> <p>Cost estimate investigation includes:</p> <ul style="list-style-type: none"> - Billing System Enhancements - Marketing - Hardware/software - Installation (including any permitting and other process management...) - Communications - Maintenance and Attrition - Reporting - Customer contribution 	<p>-- Approximately \$300 million</p>	<p>-- At present, FirstEnergy is focusing capital dollars on high priority reliability projects</p>

Metropolitan Edison Company/Pennsylvania Electric Company/Pennsylvania Power Company

Response to PA PUC Part II – New DSR Programs Under Consideration By EDCs

DR: The second part of the data request provides the opportunity for each EDC to provide descriptions for new programs that they are seriously considering for implementation. Commission staff plans on compiling the information on these programs and sharing it with the working group. We are requesting that the programs under consideration be described in detail. Please forward the following information:

A. Residential/Small Commercial Programs

1. Conservation/Energy Efficiency

- describe how the program works
- what is needed to implement it
 - infrastructure
 - education
 - other
- anticipated quantifiable costs and benefits

2. Demand Side Response Programs

- describe how the program works
- what is needed to implement it
 - infrastructure

-education

-other

-anticipated quantifiable costs and benefits

B. Large Commercial/Industrial Programs -describe any voluntary or non-voluntary large commercial or industrial programs that are in your company's future plans. Please note whether these programs would be operated by your company or part of a broader PJM program. Include any potential savings. Any questions regarding Part II information should be directed to Mr. Cal Birge at 717-783-1555 or cbirge@state.pa.us.

Response: See attached Table I.

Part II - Table 1. Summary of FirstEnergy New Programs Under Consideration

Program	Overview	Eligibility Participants	Special Requirements	Tariff (Y / N)
<p>-- Power Factor Correction (looking at proposed JCPL program for possible PA pilot)</p>	<p>-- Effort to increase power factors for primary and certain level secondary commercial and industrial customers. Increase Company's equipment utilization and efficiency of the electric system by increasing customer power factors by</p> <ul style="list-style-type: none"> -Continuing the enforcement of the current power factor provisions in tariffs -Raising the minimum level of the power factor acceptable in tariff -Making the minimum allowed power factor and VAR charge applicable to a greater number of customers -Increasing the charge for using reactive power -Educating customers about the importance and benefits of maintaining a proper power factor. Perhaps providing funding for independent firms to assess the economic viability of improving power factor for customers (similar to a residential home energy audit). 	<p>-- C & I</p>	<p>-- Research ongoing</p>	<p>-- Yes</p>
<p>-- Thermostat/Appliance Price Response Post Generation Rate Caps (looking at proposed JCPL program for possible PA pilot)</p>	<p>-- Load management / advanced metering pilot for larger residential and small commercial customers. Price signals would be sent out to thermostats and potentially other large appliances to be able to respond to LMP pricing if so desired. For those in the foot print of the pilot, the pilot would be mandatory and not a voluntary program. Outcomes would be:</p> <ul style="list-style-type: none"> - To determine differences in customers' electricity usage patterns using LMP pricing signals compared to usage patterns of similarly-situated customers with standard pricing - To determine functionality of equipment - To determine potential demand impacts of mandatory LMP pricing on Company's distribution infrastructure - To determine amount of energy shifted off of critical or on-peak periods and amount of energy conserved - Customer acceptance of interactive communication devices - Operational issues such as the cost of installation, type of labor needed for installation and maintenance, and improvements to customer service 	<p>-- Res & Sm Comm</p>	<p>-- Research ongoing</p>	<p>-- Yes</p>