



**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)
Duquesne 2004	-- Direct Load Control Pilot Program (Effective June – September)	- In 2002, Duquesne initiated a <u>pilot</u> direct load control program open to residential and small commercial customer having central air conditioning. Enrollment was limited to 100 customers. Ultimate participation was 83. (No commercial customers participated.) Participants chose one of two options: Option 1 - In return for a \$10 monthly bill credit (for the four months of the program) a customer was subject to having air conditioning load eliminated for up to four hours during an event; Option 2 – In return for a \$5 monthly bill credit, air conditioning load would be cycled 45 minutes off and 15 minutes on for a period of up to four hours during an event. Events were limited to on-peak weekday hours. Number of events was not to exceed eight over the program application period. Events were triggered by temperatures of 85 degrees or above. Eight events occurred the period. --Sixty-three customers participated in the program during the summer of 2003. Due to constraints involving installations and the overall lack of hot weather, no events were called during the application period. --This program will be offered again for the summer of 2004, with enrollment of 200 customers. Enrollment activities will commence in early March.	-- Residential/ Small Commercial	-- Direct Load Control Device— Not Smart Thermostat	-- No
	Time of Day Tariff Rider 5	Provides a reduction to tariff demand charges. On peak is 10:00 AM to 9:00 PM, Mon-Thu and 10:00 AM to 5:00 PM Friday. All other hours are off peak. The tariff demand charge is applied to the greater of the on peak demand or 1/3 the off peak demand. Charge varies by rate schedule GM and GMH. Approximately 1550 small C&I customers on this rider.	-- Small C&I	-- Company provides metering for a monthly fee of \$24.00 defined in the tariff	-- Yes
2007	2007 Change: -- Direct Load Control Pilot Program is no longer considered a pilot	2007 Changes -- This program, no longer considered a pilot program, was once again offered in 2005 & 2006. In 2005 & 2006 there were a total of 165 participants, 151 in Option 1 & 14 in Option 2.  May consider including SmartStats, along with load control devices, to increase participation/interest in the program.  -- Added information on Time of Day Tariff Rider No 5. No changes are planned for Time of Day Rider 5 in 2007	2007 No Change	2007 No Changes	2007 No Changes

**Table 3. Summary of Duquesne DSR Program Evaluations: Current & Past Programs**

Program	Summary of Evaluations: Current & Past Programs	Reports Available for Review? Yes/No
<p><b>Duquesne</b>  <b>-- 2005 &amp; 2006 Voluntary Load Reduction Program</b></p> <p><b>2005 &amp; 2006 Direct Load Control Program</b></p> <p>Time of Day Rider 5</p>	<p>-- Low participation levels. Typical strike prices (\$400 - \$600/MWH) are higher than the market typically sees except in extremely dire circumstances. Fuel costs and permitting issues to run back-up generation drive the strike prices and the willingness to participate.</p> <p>-- This program has been successful to the extent it has been implemented. If this program is to have an impact, it needs to be expanded beyond the initial offering of up to 200 customers.</p> <p>-- This tariff rider has been in place for over 30 years. The structure was created prior to restructuring and remains in the same format. Many customers are on this rider because their load profile is a natural fit (e.g. churches). The Company has not conducted evaluations to determine changes customers have made to their operations to benefit from this rider.</p>	<p>-- No</p>

**Table 4. Summary of Duquesne Meter Steps Needed to Make Hourly Pricing Available to ALL 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>-- <b>Interval Meters</b> 2004</p> <hr/> <p>2007 Changes Currently, 99% of DLC meters are read through some form of automated meter reading.</p> <p>Residential meters are electro-mechanical and read via an RF fixed network or mobile system. The communications link is one way and is currently not conducive to hourly pricing.</p> <p>Most C&amp;I meters are electronic meters and have the capability to provide hourly data. The communications link is via public carrier, and is two-way. However interval reads are not provided to all C&amp;I customers.</p> <p>Those meters that do not communicate during a billing cycle are read manually.</p>	<p>-- Installation of 608,258 Interval Meters and all associated infrastructure and operating requirements</p> <hr/> <p>2007 Changes Infrastructure Requirements for Hourly Pricing to all Customers (Population: 609,000 meters):</p> <p>End point technology. All customers with electro-mechanical meters would require having those meters replaced with electronic meters.</p> <p>Data Back-haul. A two-way communications network would need to be established. Some potential options could be copper wire, fiber optic cable, cellular, RF, BPL, or Wi-Fi.</p> <p>Data Translation. System changes or replacement would be required to expand to hourly pricing for residential customers.</p>	<p>-- Capital \$327.2M O&amp;M \$ 6.3M</p> <hr/> <p>2007 Changes Cost estimates remain the same.</p>	<p>-- 3 To 5 Years</p> <hr/> <p>2007 No Changes</p>