

Landscape for Dynamic Pricing in PPL Electric Utilities

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PPL Electric has in place all of the elements necessary for a robust dynamic pricing environment.

- Interval metering installed for all customers.
 - Started in 2002.
 - 1.4 million end-points in place since 2004.
- Meter data management capable of storing, summarizing, and analyzing interval data.
 - Implemented in 2006. 3 years of storage.
 - Implementing a data warehouse. 6 years of storage.
- Capability to bill dynamic pricing rates or to provide that information to EGSs for billing.
 - PA EDI exchange being supplemented by data portal.
- Settlement systems that perform hourly settlement for multiple suppliers and allow wholesale costs to be directly reflected in retail prices.
- Data and analytical tools available to customers via secure website and Green Button.
- Supports net metering.



Participation of PPL Electric customers in dynamic pricing programs.

- 2002 2009: Generation rate caps in place
 - Virtually no shopping
 - On-peak/off-peak residential TOU pilot programs
 - Summertime-only transitioned to year-round
 - 25 customers ramping up to 600 customers
- 2010 present: Post rate caps
 - Robust shopping: 75% of all load/42% of all customers
 - On-peak/off-peak TOU offered to Residential and Small C&I default service customers (20,000 at its peak)
 - RTP is default for Large I&C (i.e., < 500kW)
 - EGSs increasingly offering dynamic pricing







- Data warehouse
 - To permit data access and analytics outside of the production environment
- Supplier Portal
 - To accommodate increasing requests for interval data
- Market reflective default service
 - Post-5/2015 default service will reflect either RTP (large customers) or 90-day contracts (small customers)
 - Eliminate obligation for DSP to provide TOU
- Net metering reforms
 - No netting of distribution charges
 - Same cashout provisions for default and competitive supply
 - 2-meter net metering



Supplier portal

- Secure web environment that permits EGSs to "pull" data as required.
- EDI remains in place and billing transactions that "push" data are still triggered by meter reads.
- Rules regarding access to and availability of customer data are those established by the PA PUC and the same for the portal and EDI.
- Data available via portal:
 - Bill image (only available to EGS currently serving)
 - Monthly usage
 - ICAP and NITS (available to registered EGSs with valid PPL account #)
 - Interval usage
 - Eligible Customer List
 - EGS administrative functionality



- Over 100 residential thermal storage customers in the Stroudsburg area.
- Sophisticated controls on storage systems permit charging to optimize:
 - Charging cost,
 - Participation in ancillary services market, and
 - Comfort.
- VCharge serves as EGS (to serve energy at RTP) and CSP (to access ancillary services market).
- PPL Electric metering and settlement facilitate RTP billing.