Dynamic Pricing in Competitive Retail Markets

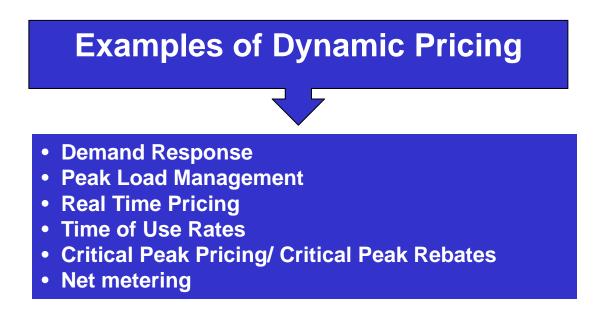
Key Operational Requirements for Retail Suppliers

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What is Dynamic Pricing?

• Dynamic Pricing is often defined as any retail pricing structure that recognizes the inherent fluctuations and uncertainty in wholesale energy pricing.





- For dynamic pricing to be successful, retail and wholesale processes must be seamlessly integrated
- Many dynamic pricing options require monetization of retail customer behavior at the wholesale level
- Retail suppliers must be able to accurately capture retail customer consumption and demand patterns via wholesale settlement reporting





Customer Identification & Prospecting

- Suppliers must be able to identify customers' metering capabilities
 - EDC should post meter population info, such as number of interval meters by rate schedule
 - Smart meter deployment schedules
 - Meter type ID should be included on customer lists, via HU transaction and on enrollment confirmation
 - Net metering indicator
- Suppliers need complete and detailed historical usage data in order to accurately price new customers
 - Interval data available via EDI and secure web portal
 - Current and future PLC values (NITS and capacity)
 - Large data repositories can also help retail suppliers refine pricing assumptions and conduct analysis to support new product offerings



Retail Meter Data & Billing

- Retail meter data
 - Monthly interval data available via EDI and/or secure web portal
 - Real time access to smart meter data
 - EDI updates for NITS and PLC values
 - If provided, on/off peak usage buckets should match ISO definitions
 - Accurate net metering information for both summary and interval metered customers
- Suppliers also require flexible billing options to enable dynamic pricing and other innovative pricing structures
 - Bill ready, EDC consolidated billing
 - Multiple line items on bill, with option of separate billing page
 - The creation of an economically viable EGS consolidated billing option will also enable more innovative products



ISO Settlement

- ISO settlement reporting must recognize customer's actual consumption
 - EDC meter data management and settlement reporting systems must capture hourly data
 - With the deployment of smart meters, these processes must also be expanded into residential and mass market segments
 - Settle to actual hourly consumption instead of using load profiles
 - For net metered customers, net excess generation (i.e., negative consumption) must be accounted for properly
- Example of current challenges:
 - EDC data management infrastructure is lagging behind smart meter deployment
 - Current protocols in some EDCs do not accurately account for net metered consumption



- Net Metering Example:
 - PJM scheduling system does not accept negative values (similar issue in ISO NE)
 - For net metered customers, some EDCs revert negative consumption values to "zero" for ISO settlement reporting
 - Suppliers are either:
 - Unable to offer full net metering credit to customers, or
 - Face financial losses at wholesale level
- Solution:
 - Negative consumption should be netted against positive values for the supplier's other accounts, OR
 - Utilize PJM meter data correction and resettlement process to adjust the load submitted during initial settlement



Regulatory Considerations

- Utility smart meter deployment plans should include enhancements to meter data management and wholesale settlement systems
- State policies to implement dynamic pricing (TOU rates, critical peak pricing plans, etc.) should look to the competitive retail market for solutions:
 - Open RFP to solicit wide range of program designs
 - Competitive solicitation to select program supplier
- Cost recovery policies should recognize the societal benefits of systems enhancements that enable dynamic pricing and other innovative pricing structures



Conclusion

- Dynamic and innovative pricing requires well designed retail and wholesale data management processes:
 - 1. Retail suppliers must be able to easily identify customer metering capabilities.
 - 2. Suppliers need complete, accurate and timely retail meter data.
 - 3. Wholesale settlement reporting must accurately capture customers' retail consumption.

