TRANSACTIVE ENERGY

Transparent energy prices enable customers of all sizes to join traditional providers in producing, buying, and selling electricity — using automated control — to drive a reliable and cost-efficient electricity system.

WHY IT’S IMPORTANT:

- **Customers can choose to produce, buy, and sell**
  - energy while using dynamic prices and contracts to decide when to sell, when to buy, and when to adjust energy use for the most benefit
- **Clean energy resources are here to stay**
  - on both small-scale customer sites and in large-scale production
- **Customers can prioritize what matters to them**
  - be it cost, reliability, profitability, or sustainability — using automated energy interactions
- **Resilient microgrids speed recovery from outages**
  - in an increasingly complex and dynamic electric power system

HOW IT WORKS:

- **New customer choices**
  - Customers can choose to:
    - Participate in responsive demand to reduce overall energy costs
    - Produce and sell excess energy and services
    - Buy energy from multiple sources based on cost and value
    - Take advantage of new energy services
- **Resilient electric networks**
  - Advanced automation and control — from substaions and wires to homes, buildings, cars, and appliances — allow flexible microgrids that enhance local and regional resilience
- **Expanded services**
  - New and wider data exchange unlocks opportunities for new services to customers
- **Improved regional integration**
  - Increased interoperability between regional and local markets coordinates energy resource use to improve efficiency and reliability

THE BENEFIT:

- **Reliability**
  - Integrates smart control and automation to manage renewables and balance local energy requirements without disruption
- **Affordability**
  - Customers can choose to buy and sell energy using price information to best manage cost and priorities
- **Sustainability**
  - Permits incremental grid modernization with secure, interoperable technologies while integrating renewable resources
- **Efficiency**
  - Economic signals for conventional and distributed energy encourage the most reliable, energy-efficient production and delivery of electricity

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