Distributed Energy Regulatory Education and Outreach

Anne-Marie Borbely-Bartis (Battelle at)

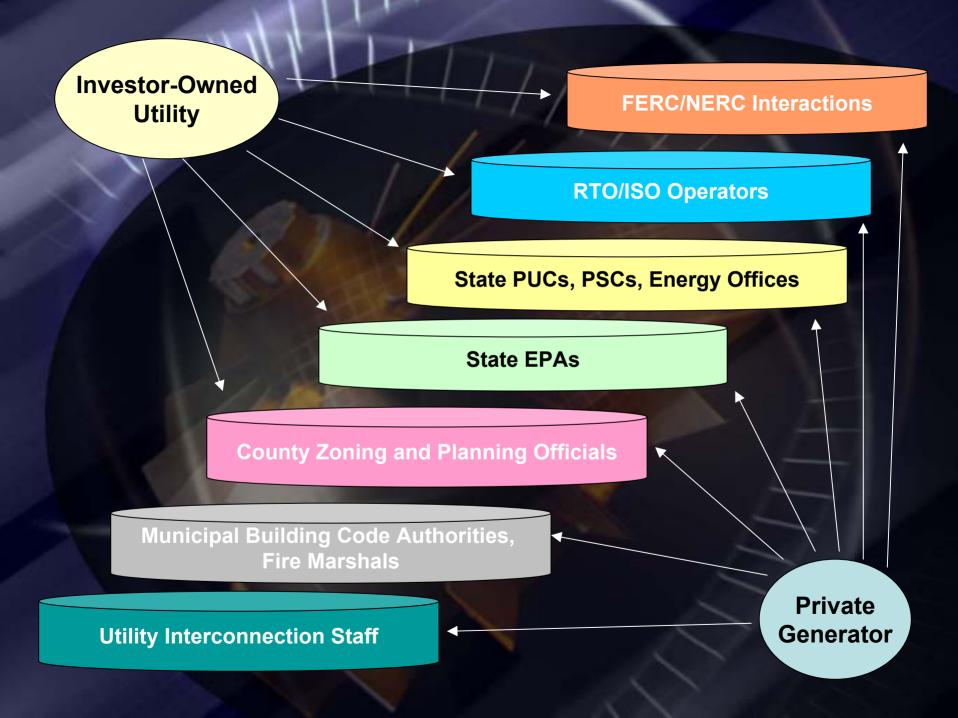
U.S. Department of Energy

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Office of Distributed Energy & Electric Reliability

- Microturbines, reciprocating engine generator sets, fuel cells, thermally-activated technologies
- Materials, energy storage, power electronics
- Equipment, bldg. and electrical interconnect stds.
- Communications and control
- Combined heat and power (CHP), "power parks



U.S. DOE Program Support

- Fuel Cells/Hydrogen, Neil Rossmeissel, Tel: 202-586-8668 neil.rossmeissel@ee.doe.gov
- Microturbines, Debbie Haught, Tel: 202-586-2211
- debbie.haught@ee.doe.gov
- BCHP, Ronald Fiskum, Tel: 202-586-9154,
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- Electrical Interconnection, Richard DeBlasio (NREL), 303-275-4333, deblasid@tcplink.nrel.gov
- State & Local Education/Outreach, Anne-Marie Borbely-Bartis (Battelle), Tel: 202-586-5196, annemarie.borbely-bartis@ee.doe.gov

U.S. Standards and Codes Overview



Actual fuel cell permitting experience "Am I on camera?.... Is this one of those hidden camera shows?" Can this blow up? Heat Fire safety inspector What is it? What's hydrogen?

September 11, 2001

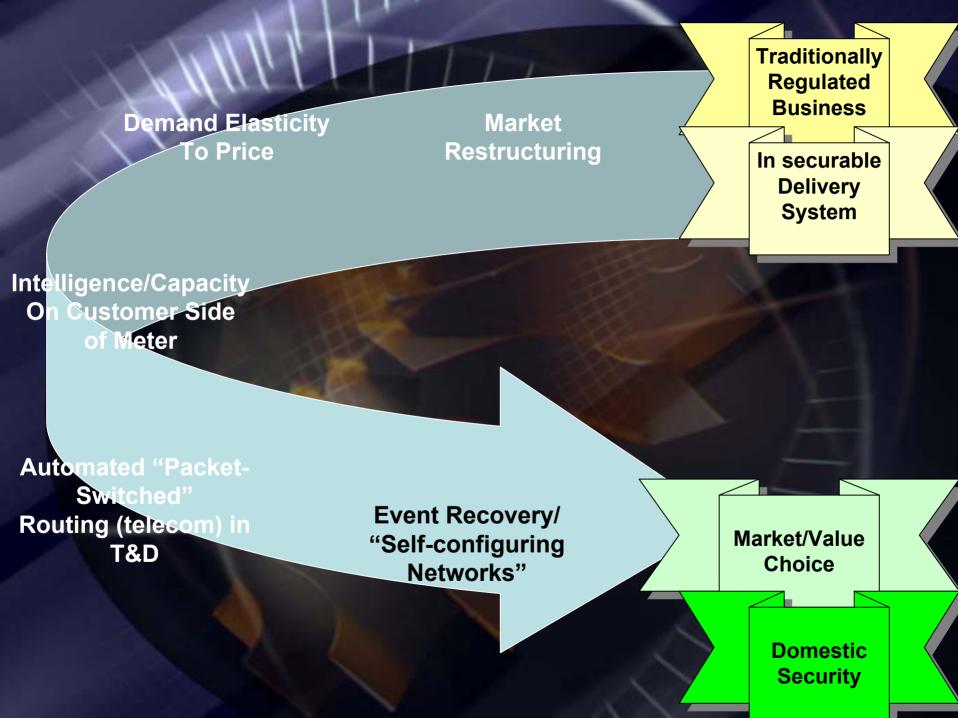
- 12 million sq. ft. office space
- 200 MW (peak) electrical demand
- 2 distribution substations

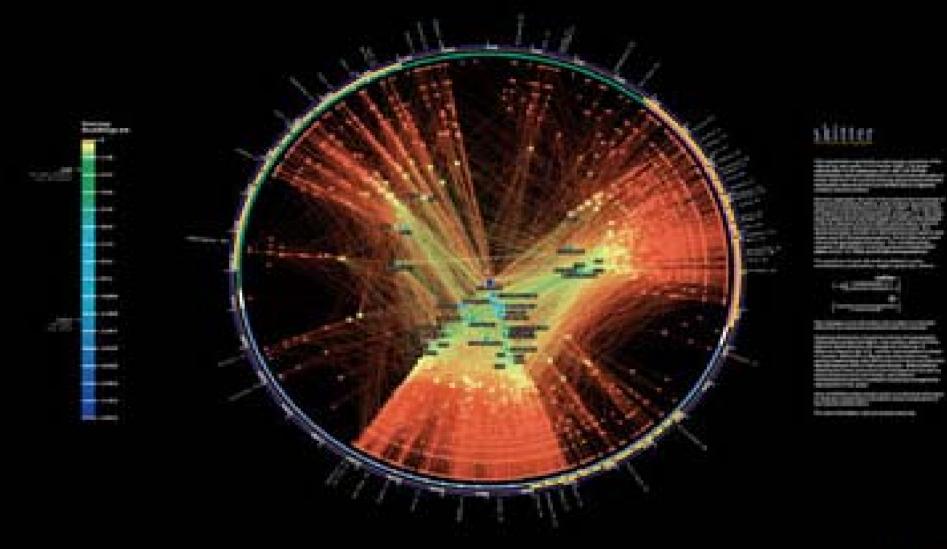
energy infrastructure "reconfigured" weeks/months

September 11, 2001

- \$10 billion telecom equipment
- 50% NY City cellular traffic
- Majority of mid-Atlantic web content

IT network self-configured in 30 seconds





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