
PPL Energy Services



Powering A Cleaner Future ~ Today

Presented by
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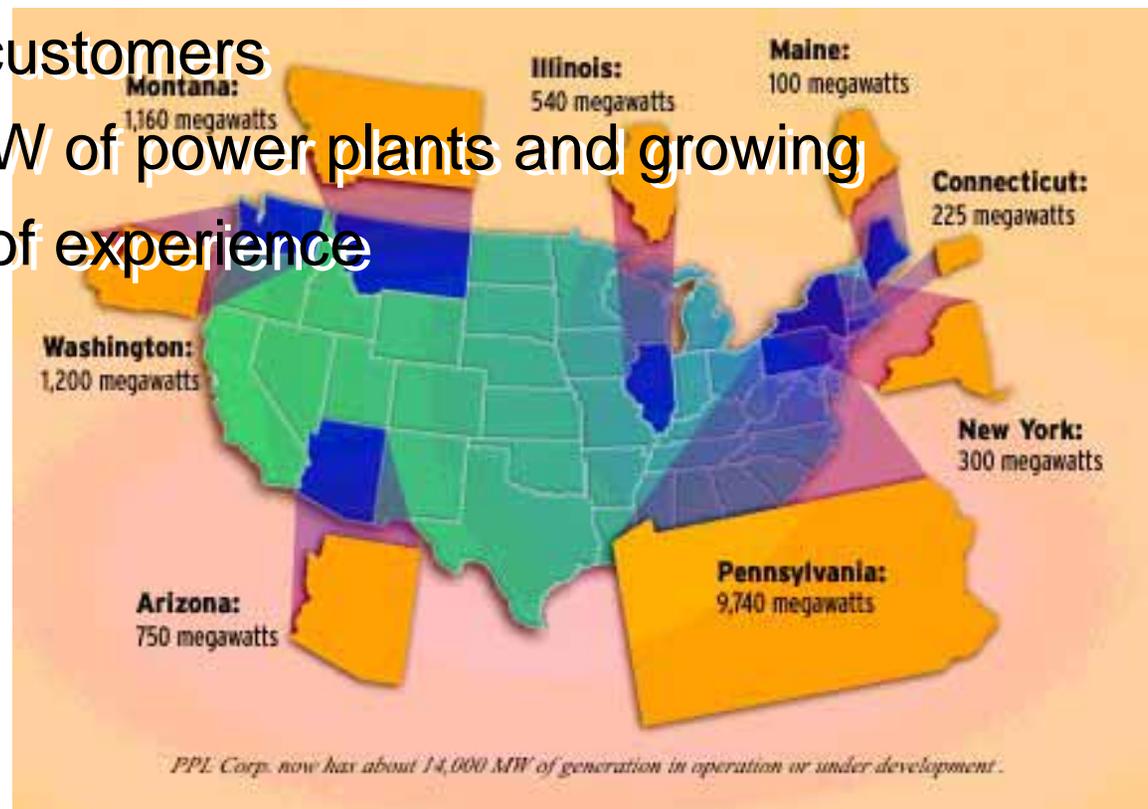


PPL - EPA Energy Ally of the Year for 2000

PPL Corporation

PPL Corporation

- A Fortune 500 Energy Company
- \$6 billion annual sales
- \$12 billion assets
- 6 million customers
- 14,000 MW of power plants and growing
- 85 years of experience



A Power Marketer's Point of View

- PPL is a generation company
 - ▶ We can build and operate generation
 - 14,000 MW of large and small generation
 - 30 kW to 300 MW
 - ▶ We can manage energy
 - buying and selling energy in 42 states and Canada
 - ▶ We have a diverse mix
 - Hydro, natural gas, biomass, nuclear, oil, coal
- PPL is an innovative company
 - ▶ New markets and new opportunities
 - ▶ Commitment to the environment



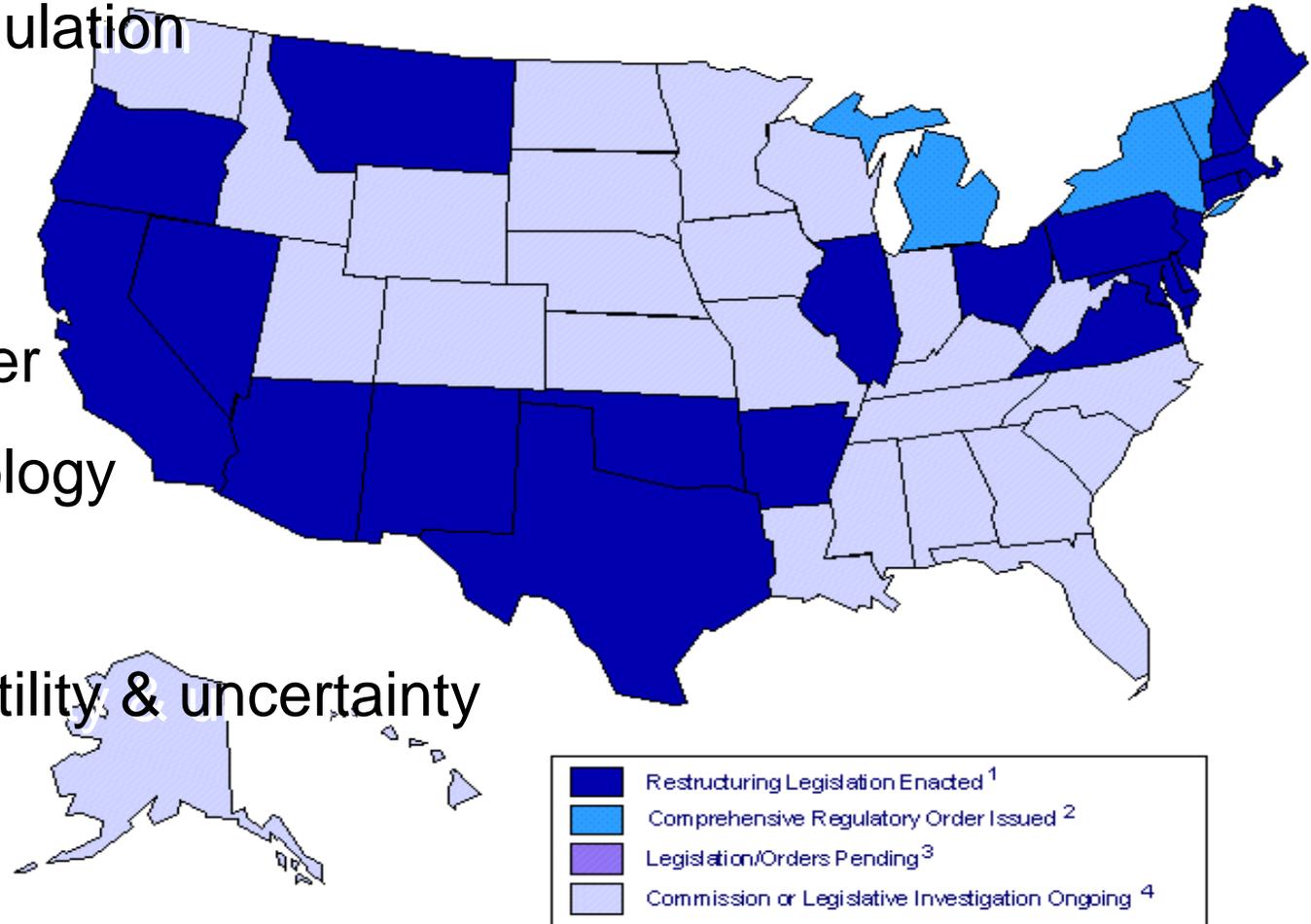
Is There a Future for Landfill Generation?

YES

Understand new marketplace
to find your treasure

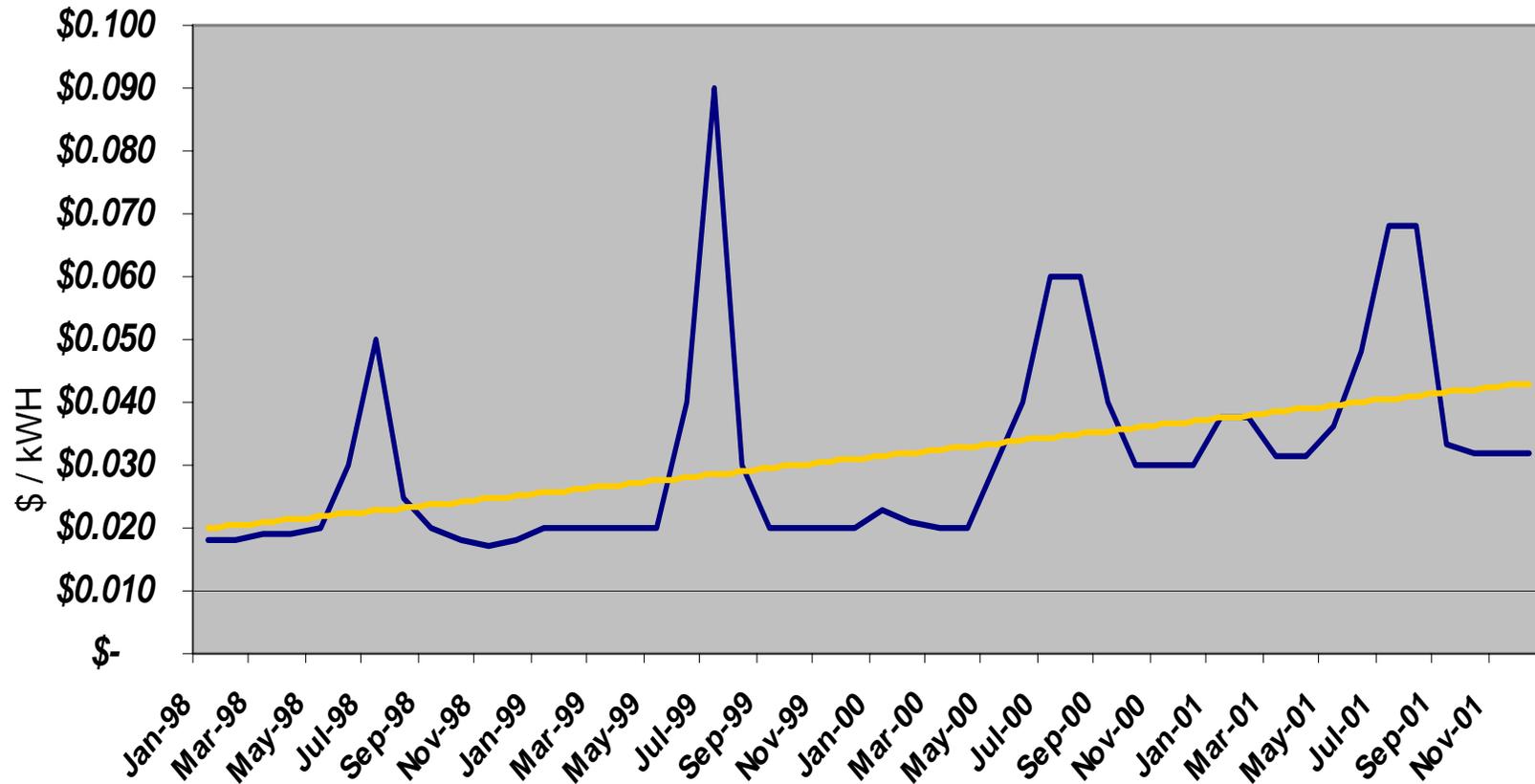
Drivers for Generation

- Utility deregulation
- Economics
- Reliability
- Green Power
- New technology
- Incentives
- Market volatility & uncertainty



Market Volatility & Uncertainty

Wholesale Electric Prices



Prices are wholesale energy only and do not include transportation costs



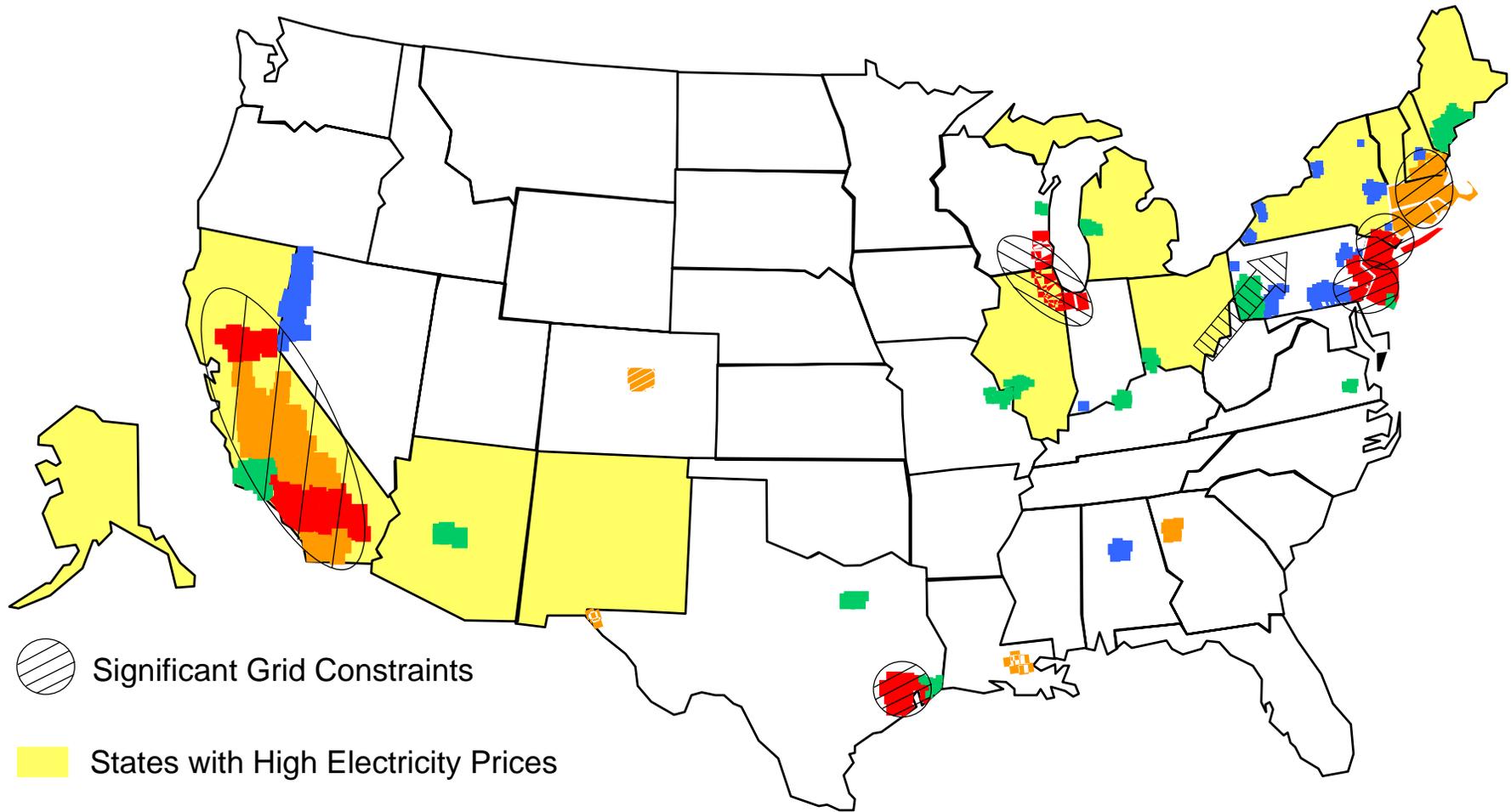
Electric Regions for the U.S.



Green Power and Emission Credits

- New markets
- Selling attributes
- Green tags, green power, green mix
- NOx offset credits available, not yet for CO₂
- Regional in nature
 - ▶ Renewable portfolio standards in various states
 - ▶ NY pilot for utility constraints
 - ▶ Customer choice
 - ▶ Transmission constraints
 - ▶ New England governors sign Climate Change Action Plan

Convergence of Energy and Environmental Concerns



Ozone Non-Attainment Classifications

- | | |
|------------|-------------------------|
| ■ Marginal | ■ Serious |
| ■ Moderate | ■ Extreme (LA) & Severe |

Source: Energy Information Administration

PPL's GenSelectsm Distributed Generation Program

PPL offers comprehensive solutions

- Integrated approach
- Fuel Cells, Microturbines, Engines, Turbines
- Renewable energy solutions
- Project development, design and installation
- Plant financing, ownership and operation
- Power/Gas purchase and sale expertise
- Established technology



Northern Tier Landfill - Trash-to-Treasure

Market priced energy*

Green power*

Emission Credits*

*more prominent since electric deregulation



Heat for boiler

Tax credits

Best Technology*

Gas to pipeline

Bottled gas

Northern Tier Landfill - Trash-to-Treasure

**Treasure = Choosing the best path
from Start to Finish**

- Market Priced Energy
- Reclaiming heat for boiler
- Tax credits
- Green Power
- Emissions Credits
- Best Technology
- Funding Opportunities
- Partnership

How To Find Your Treasure

- Choose a good partner
- Know the latest market changes
 - ▶ energy market
 - ▶ green market
 - ▶ emissions market
 - ▶ technologies
 - ▶ tax credits
- Be innovative and willing to search and dig for your treasure

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