Serving the consumer interest by seeking to improve the quality and effectiveness of public utility regulation in America.

Challenges of Regulation of the Electric Industry in the United States

ACERCA/NARUC Meeting

June 4, 2009 Managua, Nicaragua

Jess Totten, Public Utility Commission of Texas



- Electric Industry Long-term Trends
- Economic Regulation
- Prices
- Recent Challenges
 - Regional Transmission Organizations
 - Renewable Energy
- NARUC Role



- Technological development
 - Increased generation efficiency
 - Fuel diversification
 - Transmission, distribution devices
 - Communications and information
- Changes in infrastructure
 - Interconnection of transmission systems
 - Interconnection of new generation facilities



Long-term Trends

- Role of electricity in the economy
 - Electricity has become more important in meeting needs of business and domestic consumers

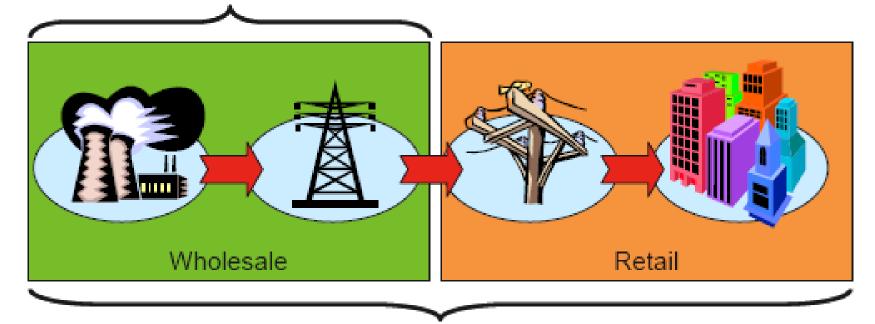
Air emissions

- Reducing emissions from electric generation has been important in meeting acid-rain and ozone standards
- Electric generation is a key industry in meeting future global warming rules



Economic Regulation

Federal Jurisdiction

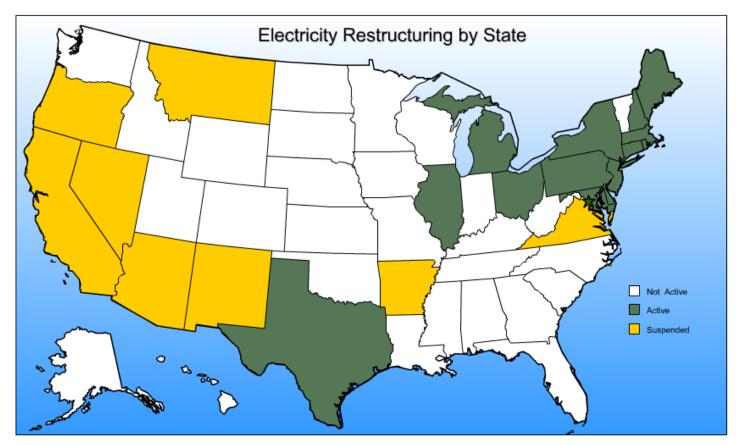


State Jurisdiction – Facility Siting, Distribution, Retail Rates

Industry regulation in the US is shared between federal and state government

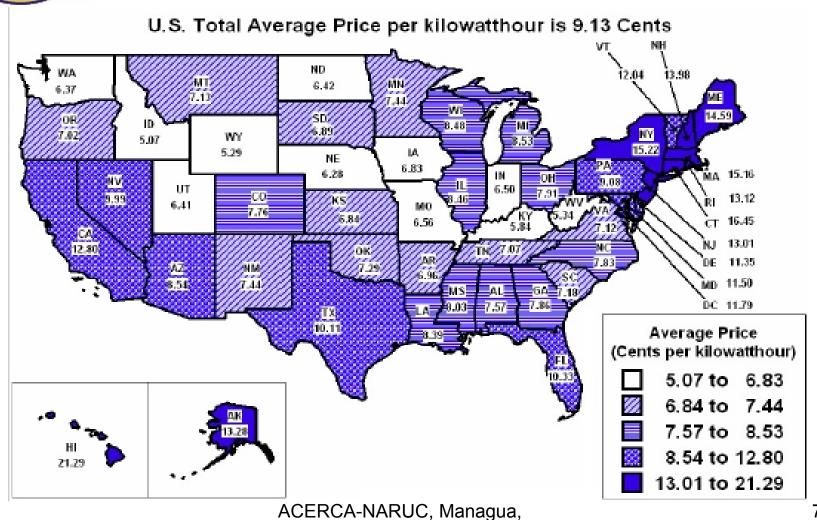


Pricing policies differ





Prices differ



Nicaragua

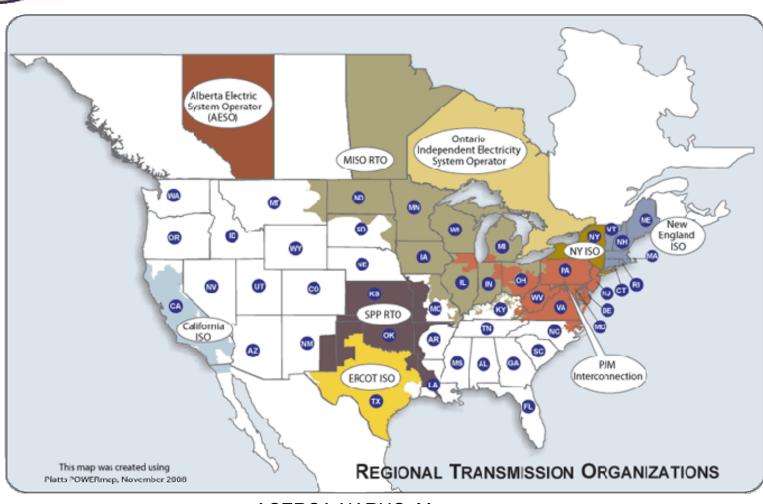


Regional Transmission Organizations

- Adopted to foster competition
 - Operate energy markets
 - Maintain reliable interconnected electric systems
- Most RTOs are regulated by federal government
- States have an interest in success of market operations and level of reliability



Regional Transmission Organizations





Regional Transmission Organizations

- Federal regulation, approval of tariffs
 - Private sector owners of electric facilities participate in management, usually through advisory committees
 - State government may also participate in management through advisory committee
- Key issues
 - Transmission operations, market operations, reliability, interconnection of new resources, incentive for new generation facilities

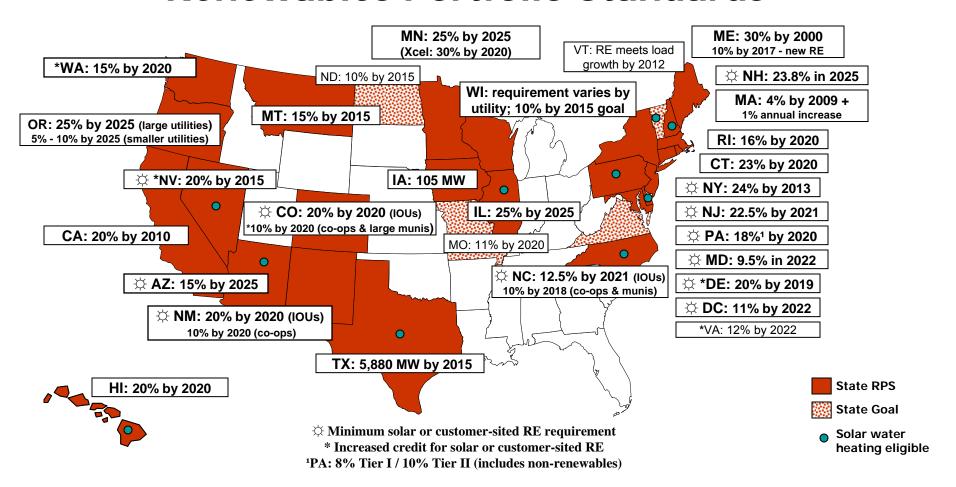


- Texas has implemented successful renewable energy program
 - Over 6,000 mw of wind energy installed in 9 years
- Policies supporting renewable energy
 - Renewable portfolio standard and credit trading program
 - Supportive transmission policies

North Carolina Solar Center

DSIRE: www.dsireusa.org March 2008

Renewables Portfolio Standards





NARUC supports good regulation

- Coordination among state and federal regulators
- Education
- Information on industry developments
- Source of information for Congress from state regulators