

LARGE SCALE RENEWABLE DEVELOPMENT AND PAYING FOR RELATED TRANSMISSION IN NEW ENGLAND

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Grid History

- Small vertically integrated utilities
 - Choosing between new generation or new transmission or combination of two.
 - Minimal interconnection and coordination
- Development of 345 kV Transmission System
 - Large thermal units with joint ownership
 - 1968 Blackout
 - Jointly owned Nuclear Power Plants

Grid History

- NEPOOL
 - Voluntary agreement among IOUs
 - Joint planning and coordination
 - Central dispatch
 - Beginnings of economic dispatch
 - “License Plate” transmission rates, combined with “Yankee” rates, combined with “Economy Energy”

New Developments

- 1992 Energy Policy Act
 - Exempt Wholesale Generators (EWG)
- Open Access Transmission Tariff (OATT)
- Development of “Postage Stamp” rates
- Restructuring of Electric Utility Industry
- Development of Independent System Operators

OATT

- Regional Reliability Benefit Upgrade
 - E.g. BHE NRI and CMP MPRP
- Local Benefit Upgrade
 - Multiple examples
- Elective Transmission Upgrades
 - Generator interconnections, Merchant proposals
- Market Efficiency Transmission Upgrades
 - Maine Power Connector

Other Approaches

- Portfolio Approach
- Merchant Sponsor
- JCSP response