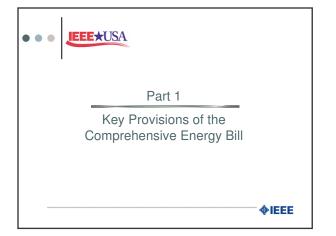


•••	JEEE & USA	
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		IEEE

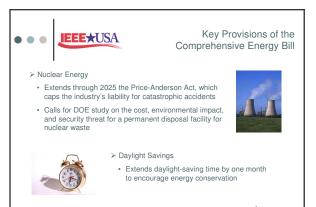


• • • IEEE★USA

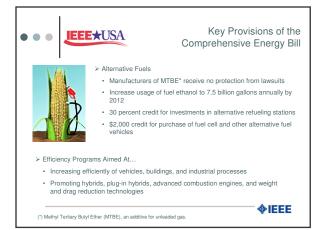
Key Provisions of the Comprehensive Energy Bill

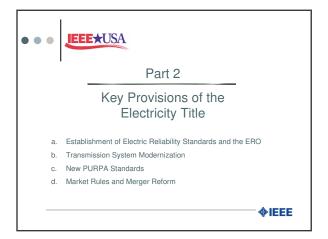
- > Benefits for Traditional and Alternative Fuel Sources
 - \$14.6 billion in tax credits for nuclear, oil, gas, coal, and renewable industries
 - Of that, \$9 billion for energy infrastructure
 - Calls for DOE inventory study on renewable energy resources focusing on surrounding terrain, population and load centers, nearby infrastructure, and barriers to providing adequate transmission

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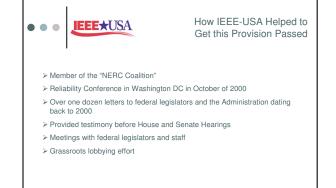




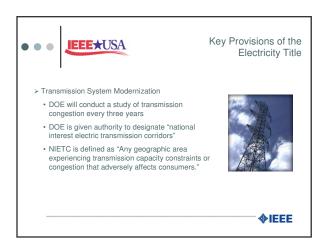


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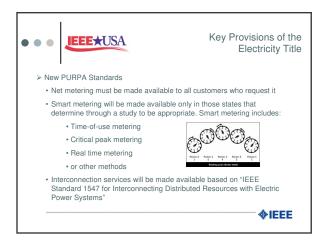
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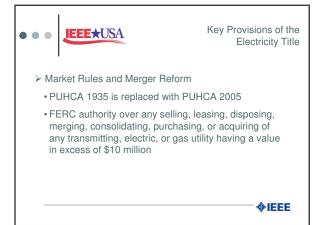


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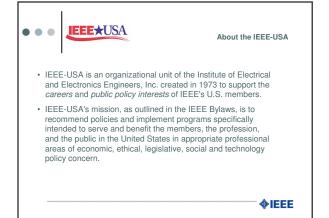




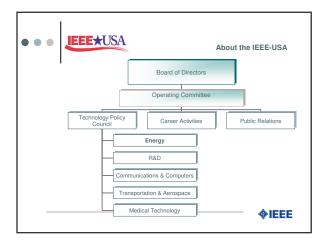




















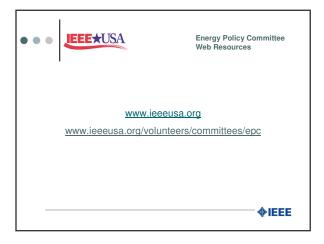




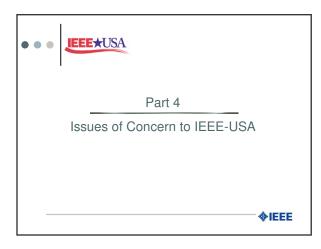
· Standards for Interconnection of Distributed Energy Resources

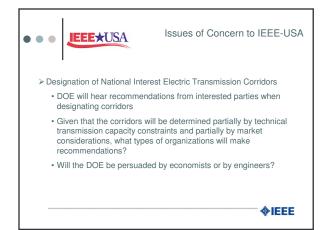
Solar and Other Renewable Energy Technologies

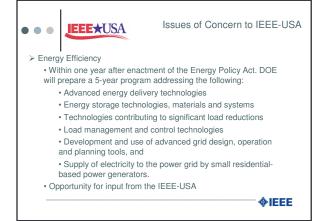
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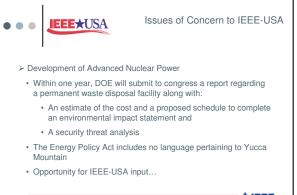








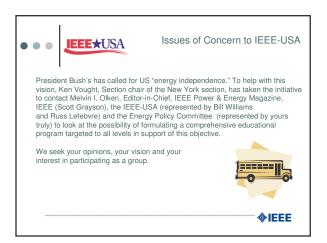


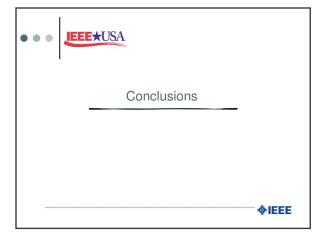


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12

The role of IEEE-USA in **IEEE★USA** • • • early deregulation efforts • From the beginning, when deregulation entered the picture, many in EPC would have argued against it, but the EPC took the position that we were not experts in this area and should neither oppose it nor support it. o IEEE-USA limited itself to warning Congress and others about pitfalls. • The outcome was a sentence in the '91-'92 legislation which allows FERC to place a 'hold' on anything they conclude threatens reliability

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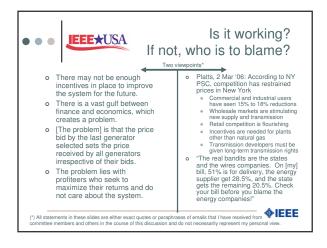
The 7 IEEE-USA principles **IEEE★**USA ••• for a deregulated industry Reliability criteria of a single North American reliability organization should be the minimum applied by all systems Prices of all market products must be established in a manner that provides 2.

- proper incentives for reliable behavior
- [I]ncentives for the effective planning, construction, operation and maintenance З. of [the] infrastructure should be incorporated into all market structures. 4
- Long-term resource adequacy, as reflected by installed reserve margins, are necessary to assure that sufficient supply resources are developed.
- The extent of reliance on organized forward markets, may [vary].
- Information about forward commitments must be made available to operators. Reactive power supply adequacy is fundamental.
- 5.
- Compatibility must exist between the regulatory and institutional framework and technical fundamentals.
- Policymakers should establish a clear and stable framework for coordination among state and federal regulators. 6
- Design of state administered retail rules should facilitate demand response

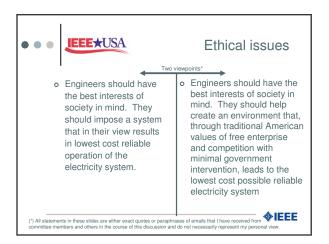
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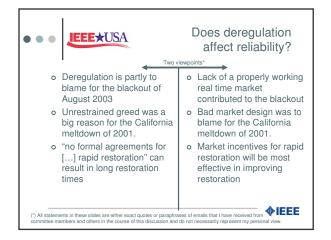






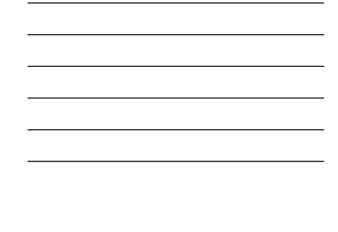


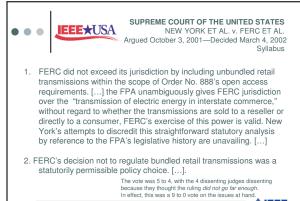












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Why can't we

••• **JEEE★USA** communicate better? o Economists underestimate the externalities that result from poor market design and the complexity of doing things correctly o Political figures underestimate difficulties of

- technology change, the impact of regulatory uncertainty and often wrongly assume that prices can be simply mandated
- o Engineers fail to understand items as basic as the impact of "pay as bid" and assume that they can "impose optimality" on society

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