Approved: <u>3-25-08</u>

Date

MINUTES OF THE JOINT MEETING OF THE SENATE UTILITIES COMMITTEE AND THE HOUSE ENERGY AND UTILITIES COMMITTEE

The meeting was called to order by Chairman Jay Emler at 9:30 A.M. on March 18, 2008 in Room 313-S of the Capitol.

Committee members absent:

Committee staff present: Raney Gilliland, Kansas Legislative Research Department

Cindy Lash, Kansas Legislative Research Department

Mike Corrigan, Revisor of Statutes Ann McMorris, Committee Secretary

Conferees appearing before the committee:

David Owens, EVP of Business Operations, Edison Electric Institute Caren Byrd, Executive Director - Investment Banking Division, Morgan Stanley (Biographicals - Attachment 1)

Others in attendance: See attached list

Chair Emler introduced the speakers who spoke to the group on the following:

Current National Issues Affecting the Electric Utility Industry

David Owens, EVP of Business Operations, Edison Electric Institute, stated we are confronted with some daunting challenges and concerned with our environment. He noted this is not a local, statewide or national but a global challenge. Core drivers to be balanced - (1) enormous capital expenditures; (2) rising costs and prices; (3) climate change; and (4) energy efficiency. He discussed demand projections; causes for rising energy demands; tomorrow's demands; transmission congestion; aging transmission infrastructure; electric capital investment requirements; natural gas investments; raw materials price indexes; equipment price increases; fuel costs; increasing reliance on natural gas; aging workforce; worldwide electricity demand; China's CO2 emissions; and national commitment to energy efficiency. (Attachment 2)

The Investor Outlook for the Electric Utility Industry

Caren Byrd, Executive Director - Investment Banking Division, Morgan Stanley, discussed electric industry challenges. She explained capital requirements for the next 15 years involving conservation and efficiency; environmental retrofits; transmission; distribution; and generation. Other areas of information were on rate pressures; environmental concerns, technology opportunity and collaboration. (Attachment 3)

Members of both the House and Senate Committees asked many questions of the conferees.

Adjournment.

Respectfully submitted,

Ann McMorris, Secretary

Attachments - 3

JOINT MEETING OF SENATE UTILITIES COMMITTEE AND HOUSE ENERGY & UTILITIES COMMITTEE

GUEST LIST DATE: MARCH 18, 2008

Name	Representing	Name	Representing	
- Dave	0 Epnings	Carb		
Ster N		Sunton	Ma	
Lindsey Douglas		Hein La	Hein Law Firm	
Mar	"I Haskett	Œ	P	
Tom Thomp son			sierra Club	
<u>Carol</u>	Carol Mc Doulell		Tally Vass Ranchers	
Lrz F	Brosius	KSE	ragy Council	
	Lawrence	Capito	1 Consulting Gra	
Dong Smith		Priego, Su	Priego, Sun 1-1 & Associates	
Ster	e Johnsm	CNECK	Inc.	
Rick	Grettwo	LAbor	CERS LOCA/129	

JOINT MEETING OF SENATE UTILITIES COMMITTEE AND HOUSE ENERGY & UTILITIES COMMITTEE

GUEST LIST DATE: MARCH 18, 2008

			
Name	Representing	Name	Representing
ToeDu	le KCBPU		
Ves As	Loton Aguila		
TOMD	1/2		
70 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Brelie KDHE		
Mick	UBan KGS		
Starest	Harden CURB	-	
	LUACES KEPLO		
Lindsey	Douglas Heinlawfin		
Dan !	Holehaus KEC		
Kiml		KMU	
John ((3attenby Western		
taul	Johnson Ks Cark C	ort	
-			

Joint Meeting of the House Energy and Utilities Committee and Senate Utilities Committee

March 18, 2008

David Owens

David K. Owens is Executive Vice President, Business Operations, at the Edison Electric Institute (EEI). Owens has responsibility over the strategic areas of energy supply and the environment, energy delivery, energy services and international affairs. Prior to joining EEI, Owens served as Chief Engineer of the Division of Corporate Regulation of the Securities and Exchange Commission. Owens also was an engineer in the Division of Rates and Corporate Regulation at the former Federal Power Commission and worked as a design and test engineer for General Electric and Philadelphia Electric Companies, respectively.

Owens has over 35 years of energy-related experience. He is a recognized authority on utility issues frequently appearing in proceedings before Congress and the states. He frequently appears on television and radio forums addressing energy issues. Owens holds a BS and Masters Degree from Howard University and a Masters in Engineering Administration from George Washington University. He is on the Board of AABE.

Caren Byrd

Caren Byrd is an Executive Director in Morgan Stanley's Global Power and Utility Group. She joined the Investment Banking Division of the firm in 1972, and has focused all her career on the electric utility industry. She is an expert on the requirements of investors in the equity and debt securities of this industry. Over the years, she has been involved in the firm's utility activities for the electric utility industry including financing, advisory services, restructuring and mergers and acquisitions.

She currently serves on the Advisory Council of the Institute of Nuclear Power Operations (INPO), having previously served in this capacity for seven years (1986 – 1993). She has also recently been named to the Advisory Council of the Electric Power Research Institute (EPRI). Additionally, she had been involved with the Nuclear Energy Institute's outreach program to the New York financial community. Byrd is a chartered financial analyst, a member of the CFA Institute, the Wall Street Utility Group, and the New York Society of Security Analysts. She received a Bachelor's Degree from Smith College and an MBA degree from the Wharton School of Finance, University of Pennsylvania.



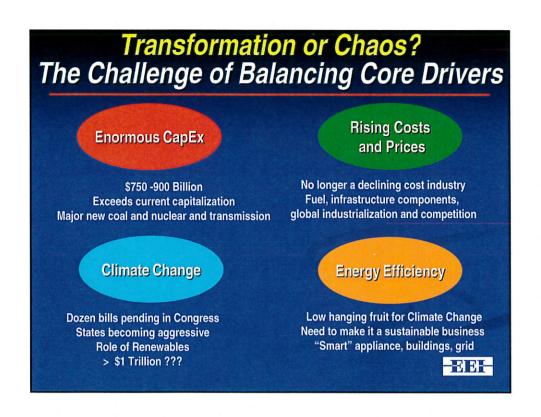
EDISON ELECTRIC INSTITUTE

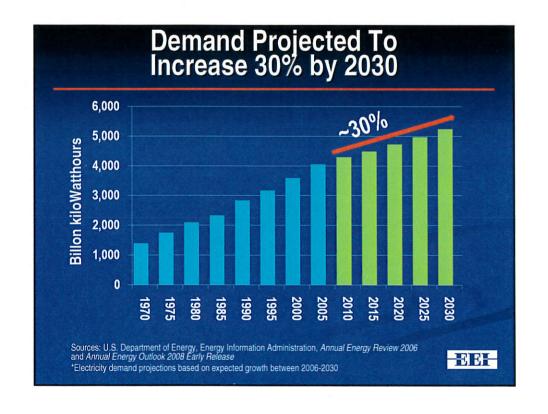
Key Electricity Issues

David K. Owens

Executive Vice President Edison Electric Institute

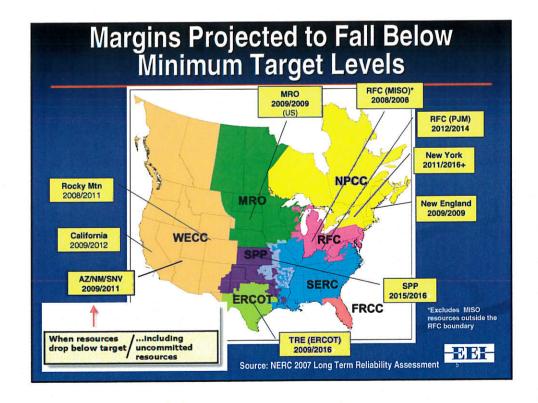
Kansas State Legislature
March 2008

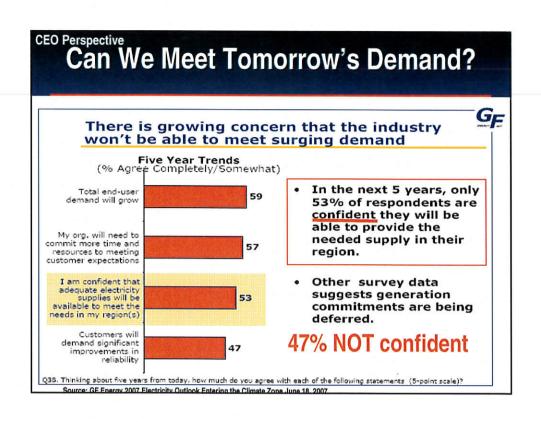


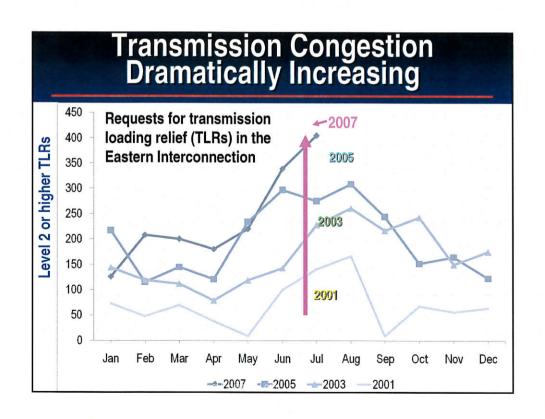


Causes for Rising Demand

- Increasing population 11.18% in 10 years
- Increased economic growth 50.1% in 8 years
- Increased number of homes with central A/C 49% in 9 years
- Plasma TVs up 50% 1st Qtr 05 from 1st Qtr 04
- MP3 players up >17 million in one year
- Average US household owns 26 consumer electronics products
- Increased number of homes 47.85% in 8 years
- Increased number of larger homes 72% in 9 years (over 2400 sq. ft.)







Aging Transmission Infrastructure

- "Rising Utility Construction Costs: Sources and Impacts"
 - Edison Foundation/Brattle Group Report
- 70 % of transmission lines are 25 years or older
- 70 % of power transformers are 25 years or older
- 60 % of circuit breakers are more than 30 years old

http://www.globalenvironmentfund.com/GEF%20white%20paper_Electric%20Power%20Grid.pdf

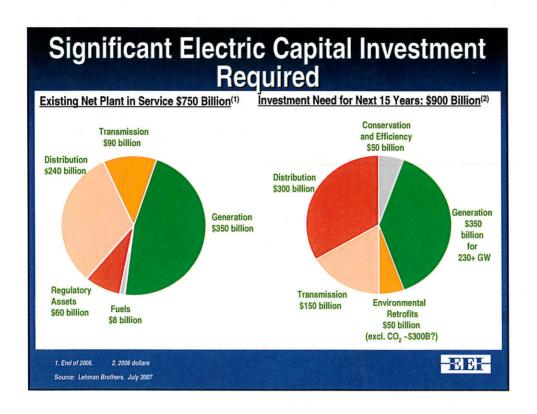
EEH

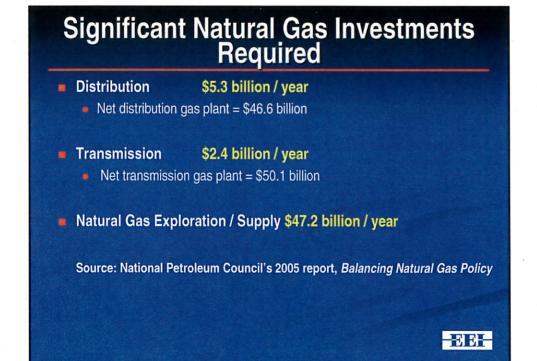
Infrastructure Affects Reliability

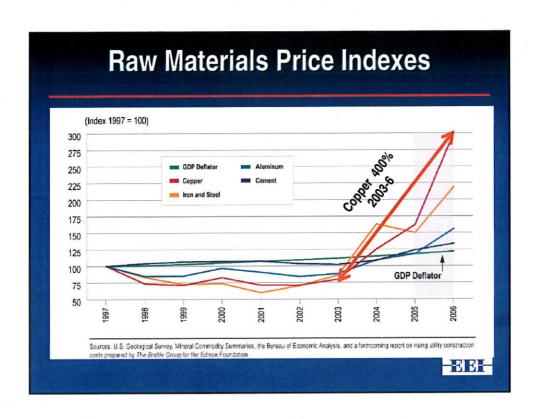
Number one challenge facing reliability today
(NERC's 2007 Survey of Reliability Issues)

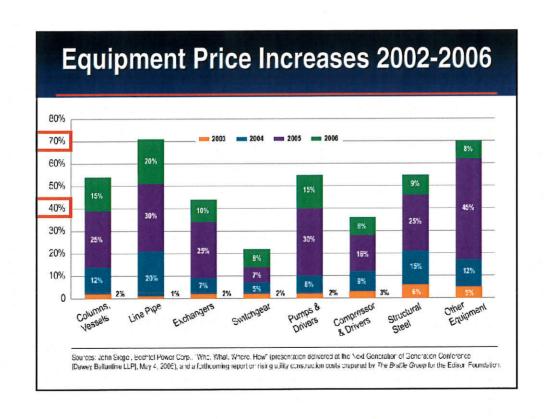
"High likelihood ... reliability risk due to aging infrastructure and limited new construction"

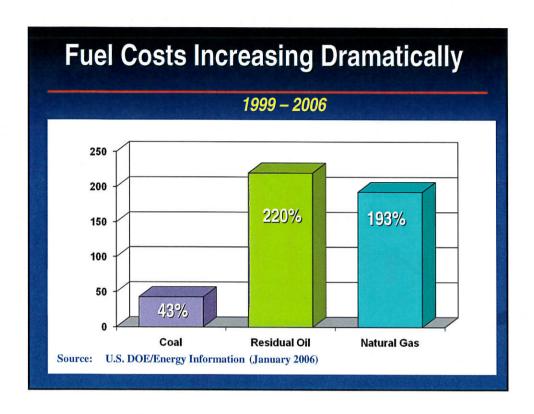
www.nerc.com/pub/sys/all_updl/docs/pubs/Reliability_Issue_Survey_Final_Report.pdf











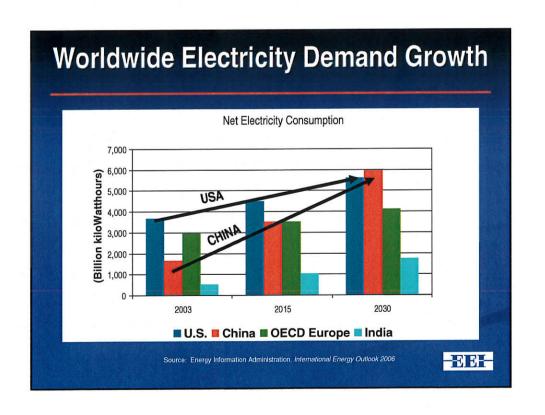
Increasing Reliance on Natural Gas

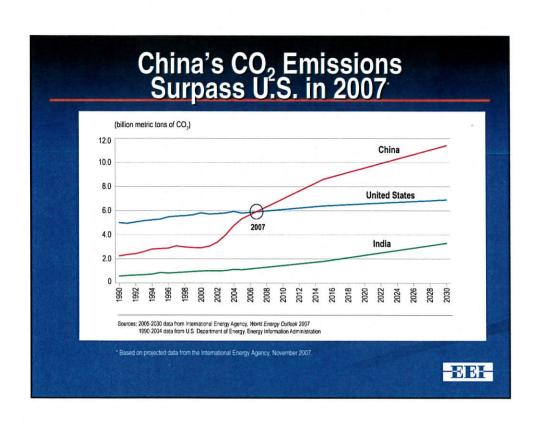
- Continued dependence on natural gas for electric generation
- Dependency could impact reliability
 - Competition increasing for gas supply and delivery capacity
 - Canadian imports declining
- Can overseas markets provide new supply?
 - Requires new LNG terminals
 - Increase the grid's exposure to global economic and political risk
- Steps already taken to mitigate reliability impact ... But more needs to done

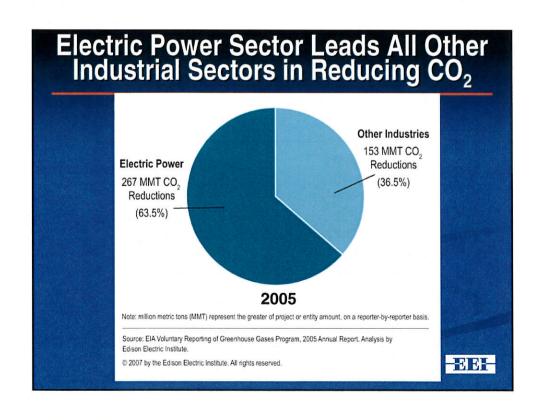
NERC's 2007 Long-Term Reliability Assessment

33







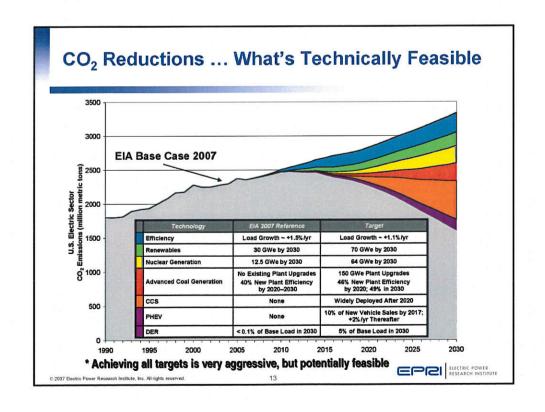


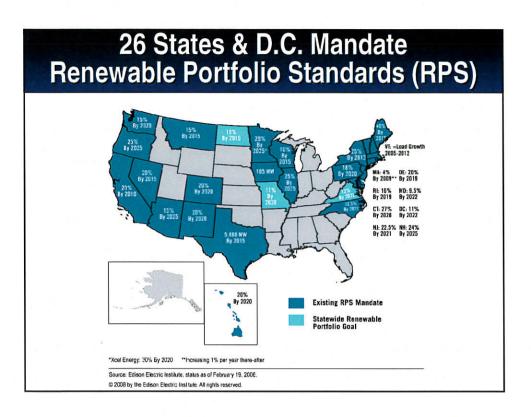
What Will It Take?

There Is No Silver Bullet!

- Renewables
- Energy Efficiency
- Clean Coal Technologies
- Carbon capture and storage
- Nuclear
- Plug-in hybrid electric vehicles

-EEE





An Intensified National Commitment To Energy Efficiency

- Aggressive campaign for technologies
 - Smart buildings
 - Smart appliances
 - Smart electric meters
 - Smart thermostats
- Use of "smart technologies" and new rate designs can
 - Allow consumers to control their energy usage to save money
 - Avoid wasting energy
 - Control how and when appliance do their jobs
 - Help utilities efficiently operate their systems and maintain reliability
 - Help keep supply and demand in balance
 - Support more efficient use of generating resources
- Commercializing plug-in hybrid electric vehicles

-3151-

Key Elements In GHG Debate

- We need a full suite of technologies
- Harmonize compliance dates and technology availability
- An effective cost containment mechanism to avoid economic disruption
- Robust domestic and international offsets to lower costs and promote effectiveness
- Requirement that developing countries participate China / India



Challenge:Technologies and Timeframes

- Clean coal technologies
 - Not commercially available until 2015
- Carbon capture and storage (CCS) technologies
 - Not commercially available until 2020-2025
- Deployment of nuclear plants
 - Not possible until 2015 at earliest



Summary: Challenges Are Plentiful

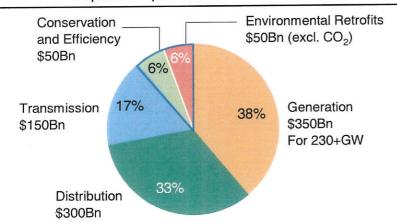
- Supply margins are declining and demand is increasing
 - Need significant infrastructure investment but costs increasing rapidly
- No longer a declining cost industry
 - Need significant outreach to explain the reasons for increasing cost
- Aging workforce increasingly important
 - Need to support programs for science and engineering
- Increasing concerns about the environment
 - Need to accelerate development and deployment of new technologies
- Energy efficiency is viable option
 - Need to create regulatory climate for making EE a sustainable business

- H D -

Kansas Electricity Briefing Caren Byrd, Executive Director, Morgan Stanley, New York

Electric Industry Challenges





Rate Pressures

• "Catch-up" rate cases

Rates to reflect \$1T capital expenditures

 Incremental costs for Global Warming Offsets Ratepayers

Regulators

Environmental Concerns

- · Greenhouse Gas costs
- Renewable Portfolio Standards
- Energy Efficiency impact
- Clean Coal
- Nuclear Spent Fuel

Technology Opportunities

- · Energy efficiency
- Alternative Energy
- Smart Grid
- · Etc. etc. etc.

Collaboration Essential

- Rate Regulation
- Pre-approvals for cap ex
- Incentives for energy efficiency
- Opportunity for fair return
- Energy Policy
 - Non-partisan
- Long-term
- Positive business environment
- Informed Stakeholders

Morgan Stanley