Barriers to Entry and U.S. Wholesale Power Markets

By John Kelly Director of Economics and Research American Public Power Association Washington, DC

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Impediments to Competition?

- "Competition has elsewhere encouraged efficiency and innovation better than regulation.
- That electricity must be consumed when produced is no different from other time-perishable commodities like airline seats, hotel rooms, movie seats and advertising time on television. No barrier there.
- The solution is to improve market rules and market oversight."

Branko Terzic, Former FERC commissioner New York Times letter to the editor, 21 Nov 06

Impediments to Competition?

- The question of whether to stay the course on deregulation or restore aspects of traditional regulation "would have to ...
- ... take into account, above all, the extraordinary and in some respects literally unique characteristics" of the industry.

Alfred Kahn

Relevance of industry characteristics to competitiveness

	Not Very	Somewhat	Very
Capital intensiveness			
Financial capital requirements			
Scale economies			
Lumpiness of investments			
Location of facilities			
Technology			
Product durability			
Sunk costs			
<u>Substitutes</u>			
Seasonality			
Product differentiation			
Vertical integration			
Number of sellers and buyers			
Mobility of resources/ Asset specificity			
Foreign competition			
Network industry			

"There is growing evidence and convincing studies that show that consumers have saved billions of dollars in energy costs as a result of competitive markets."

> "Open Letter to Policymakers," Compete Coalition, Washington, D.C., June 26, 2006

Generally:

- Concluded "that the methodology used in [the] studies consistently fall short of the standards for good economic research."
- "In particular, despite much advocacy there is no reliable and convincing evidence that consumers are better off as a result of restructuring of the U.S. electric power industry."

John Kwoka, *Restructuring the Electric Power Sector: A Review of Recent Studies, Nov. 2006*

Specifically in regard to the "Open Letter ...":

- "... Existing studies do not support that proposition."
- "Indeed, ... there is no credible and convincing economic evidence that consumers have been made better off by electricity restructuring."

John Kwoka, *Restructuring the Electric Power Sector: A Review of Recent Studies, Nov. 2006*

Specifically in regard to the "Open Letter ...":

 "The unsupported conclusions of these studies should not serve as the basis for further <u>ill-</u> <u>defined</u> 'deregulation' or 'competition' solutions to the present difficulties in electricity markets." (Emphasis added)

> John Kwoka, *Restructuring the Electric Power Sector: A Review* of Recent Studies, Nov. 2006

Evidence: Company Profits

ROE (%)

Cash Flow to Equity (%)

	<u>2005</u>	<u>5-Year</u>	<u>2005</u>	<u>5-Year</u>
Exelon	19	18	33	33
Constellation	13	13	28	25
PSGE	14	16	27	24
PPL	16	20	32	50
Allegheny	10	-1	30	11

Evidence: Company Profits

Summary of Stock Holding Period Returns (%)

	<u>10 yrs</u> .	<u>5 yrs.</u>	<u>3 yrs.</u>	<u> 1yrs.</u>
Regulated	10	9	9	12
<u>S&P 500</u>	7	5	10	15
<u>Exelon</u>	22	27	30	26
Constellation	13	22	19	11
<u>PSGE</u>	19	13	20	4
<u>PPL</u>	17	18	23	15
<u>Allegheny</u>	7	3	60	49

Evidence: Prospective Profits





Exelon	2008	22
Constellation	2008	17
PSGE	2009	22
PPL	2010	23
Allegheny	2010	26

Warren Buffet on Electric Utilities

- Investing in electric utilities is "not a way to get rich, it's a way to stay rich."
- "Most of deregulation was a mistake" because, in a deregulated market, "generators have a clear incentive to reduce power reserves."
- Owners of generating assets want the market to be tight
- "The last thing in the world an unregulated operator wants is excess capacity."

Source: *Platts Electric Utility Week* 20 November 2006

PJM Market Power Indicator

PJM's Use of Price-Markup Index (PMI)

PJM estimated 3.9 percent for 2005

Important conceptual issues and application of the formula aside ...

5 Regions 8-25 % 8-19 % 6-15 8-26 7-17

Economic Analysis v. Value Judgments

Why are concerns about impediments to competition and evidence on restructuring ignored or dismissed?

Economic Analysis v. Value Judgments

Do Policy Recommendations rests on:

A commitment to the competitive market as an ideal, and consequent belief that any step in the direction of the ideal is desirable;" or on

Economic Analysis and Empirical Evidence?

Final Thoughts

- Threshold question is not about markets v. regulation, as such; rather it's about competition v. monopoly.
- "Imperfect information, imperfect capital markets, imperfect competition: These are the realities of market economics – aspects that must be taken into account."

Final Thoughts

- "The advocates of deregulation say it was not done perfectly.
- They would have us compare an imperfect regulated economy with an idealized free market
- ... Rather than an imperfect regulated economy with an even more imperfect unregulated one."

Joseph Stiglitz