

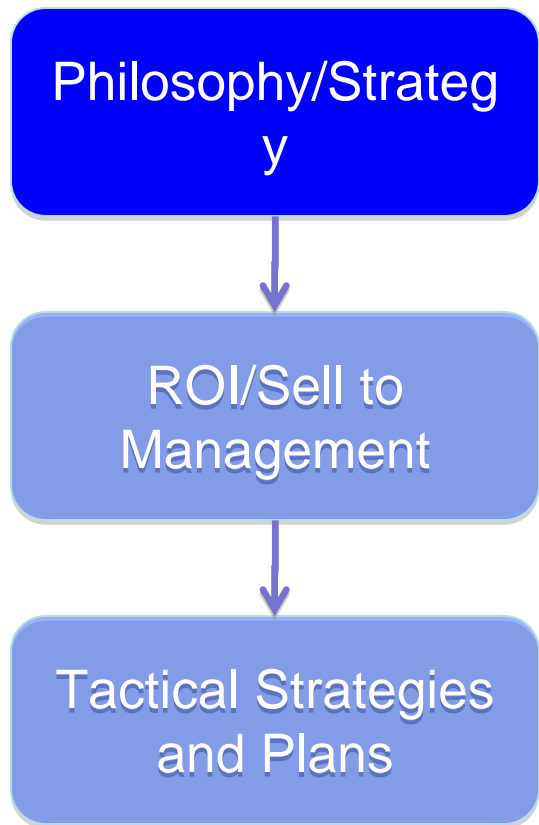
Thinking Beyond the Function: The Smart Grid's Architectural Implications On Who Makes Electric Energy Production and Consumption Decisions

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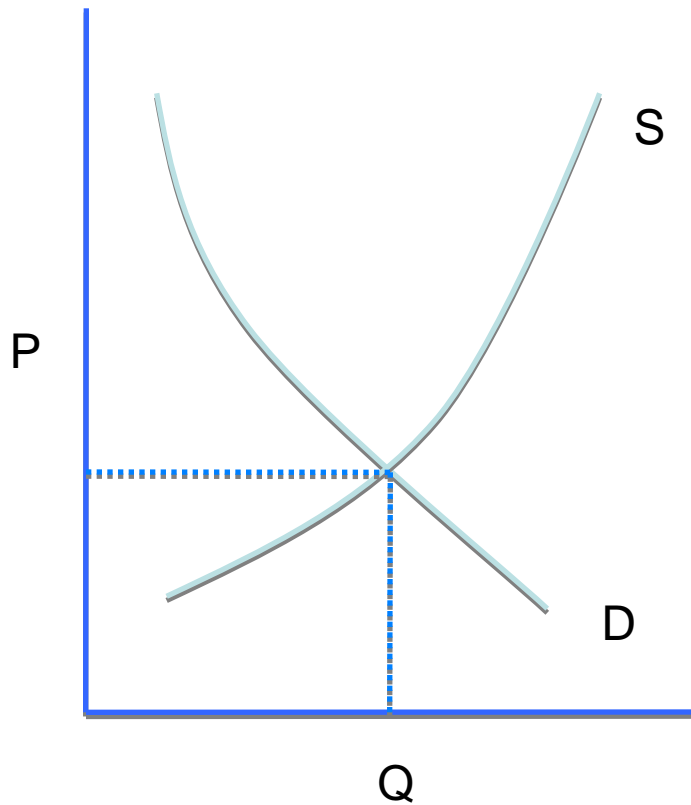
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Today's Discussion's Objectives



- Open Discussion
- Assess Interest
- Develop Next Steps

Problem Addressed Today



- Instantaneous Equilibration
 - Productive Efficiency
 - Allocative Efficiency
- Question is not only about what and how, but also who decides
 - Policy Makers
 - Regulators
 - Utilities (Producers)
 - Consumers
 - Advocacy/Interest Groups
- How do architectural choices affect this question?

Four Modalities Influencing Who Makes Decisions

Law

Social / Institutional
Norms

Market

Architecture

Source: Lessig, Lawrence, "THE LAW OF THE HORSE: WHAT CYBERLAW MIGHT TEACH," available at <http://www.lessig.org/content/articles/works/finalhls.pdf>, accessed 11/11/2009

The Smart Grid Architecture Will Have Consequences

- Incentives
- Constraints
- Opportunities
- All of which affect security, quality, and reliability of the Smart Grid architecture

And The Smart Grid's Architecture Can Create

- Winners
- Losers
- Transfers of Decision Making Power
 - Consumer
 - Producer
 - Regulator
 - Policy Maker

What Role Shall We as Architects of the Smart Grid Play?

- Open Discussion Time
 - What's this group's interest?
 - Your views
 - Scope for further discussion in this Forum
 - Next steps

Thank You,
and I'd like to hear from you

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