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Engaging the Public • Finding Solutions

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The Energy Implications of Growth in South Florida

South Florida Association of Environmental Professionals

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Global Trends and Conditions

- Worldwide economic growth
- Population growth
- Electricity demand
- Fuel Supply

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Population Growth

- World total grows 45% by 2050
- 6 billion now
- 7 billion in 13 years!

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Electricity Demand

- Grows 43% in US over next 20 years
- Worldwide \$16 trillion investment
- USA \$3.5 trillion
- China \$2.25 trillion, India \$1.75 trillion
- What will be the fuel of choice?

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Natural Gas & LNG Growth

- Global gas trade 3x
- LNG trade 4x
- 128 tankers today, 450 by 2030
- Increasing dependency on imported gas

South Florida Trends & Conditions

- Population growth
- Electricity Demand
- Fuel Supply

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Population Growth

- Tri-county population now 5.2 million
- 300,000 people added 2000-2003
- Current drinking water consumption 1.8 billion gpd
- Additional 3/4 billion gpd by 2020

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Electricity Demand

- 500-1,000 MW being added each year
- One Port Everglades power plant (1,242 MW) every two years
- 30% of 2011 capacity (20,216 MW) not yet built

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Fuel Supply

- Gas purchases double to 1 1/4 trillion cubic feet per year
- Imported liquefied natural gas (LNG) more predominant
- FPL importing 800 bcfd in 2008
- Each ship is 7 days supply

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South Florida Challenges

- Natural gas supplies and pipelines
- Regional growth and redevelopment
- Power facility siting
- Potable water

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The Road Forward?

- Our philosophy:
 - Triple Bottom Line = economic prosperity, social well being, environmental quality
- What are we doing?
 - Community Power in the 21st Century

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Community Power in the 21st Century

- Public forum & visioning process with all stakeholders
- Transparent
- “Working Through” to solutions
- Balanced energy choices
- Project development

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The Next Step

Fort Lauderdale Energy Roundtable

Broward County Library Auditorium

March 22nd, 2005

7-10 PM

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