

Florida: Moving Toward Clean Energy and Energy Independence

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What's Happened in Florida

- S888 (2006) early cost recovery for nuclear
- Coal Plant Proposals Fail (2007)
- Crist removes 2 PSC Commissioners (2007)
- Governor's Executive Orders (2007)
- HB7135 (2008)
- Governor's Climate Action Team (2008)
<http://www.dep.state.fl.us/climatechange/team/default.htm>
- Renewable Portfolio Standard Failed (2009)

Off-Shore Drilling


- Florida Legislature 2009 Session
State House passes bill requiring Cabinet to accept proposals from bidders to lease state submerged lands (10 miles to the shore)
 - US Congress 2009
Dorgan amendment to US Senate Energy and Natural Resources energy bill - 45 miles
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What's Up Next

- ▶ Stimulus Money
 - ▶ Federal climate and energy bill
 - ▶ Renewable Portfolio Standard and Cap & Trade rule (2010 Session)
 - ▶ Drilling Proposals (state and federal)
 - ▶ Opportunities - Innovation, Investment
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Governor Charlie Crist

June 2007 Executive Orders

- ▶ GHG Emissions Reductions Goals
 - ▶ Stakeholder GHG Reduction Process
 - ▶ Increase energy efficiency code for building construction by 15% for residential and commercial buildings
 - ▶ Renewable Portfolio Standard - target for renewable energy
 - ▶ Lead by example
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Other Venues

- Florida Legislature
 - HB 7135 - Future Comp Plans, RPS, C & T
 - RPS - 2010 Session
 - Cap and Trade - 2010 Session
- Florida Building Commission -
- Florida Energy and Climate Commission
- Florida Public Service Commission
 - FL Energy Efficiency and Conservation Act
 - Rate Impact Measure vs. Total Resource Cost


What Needs to Happen? What's the Path Forward?

McKinsey's Pathways to a Low Carbon economy
A cost curve for greenhouse gas reduction

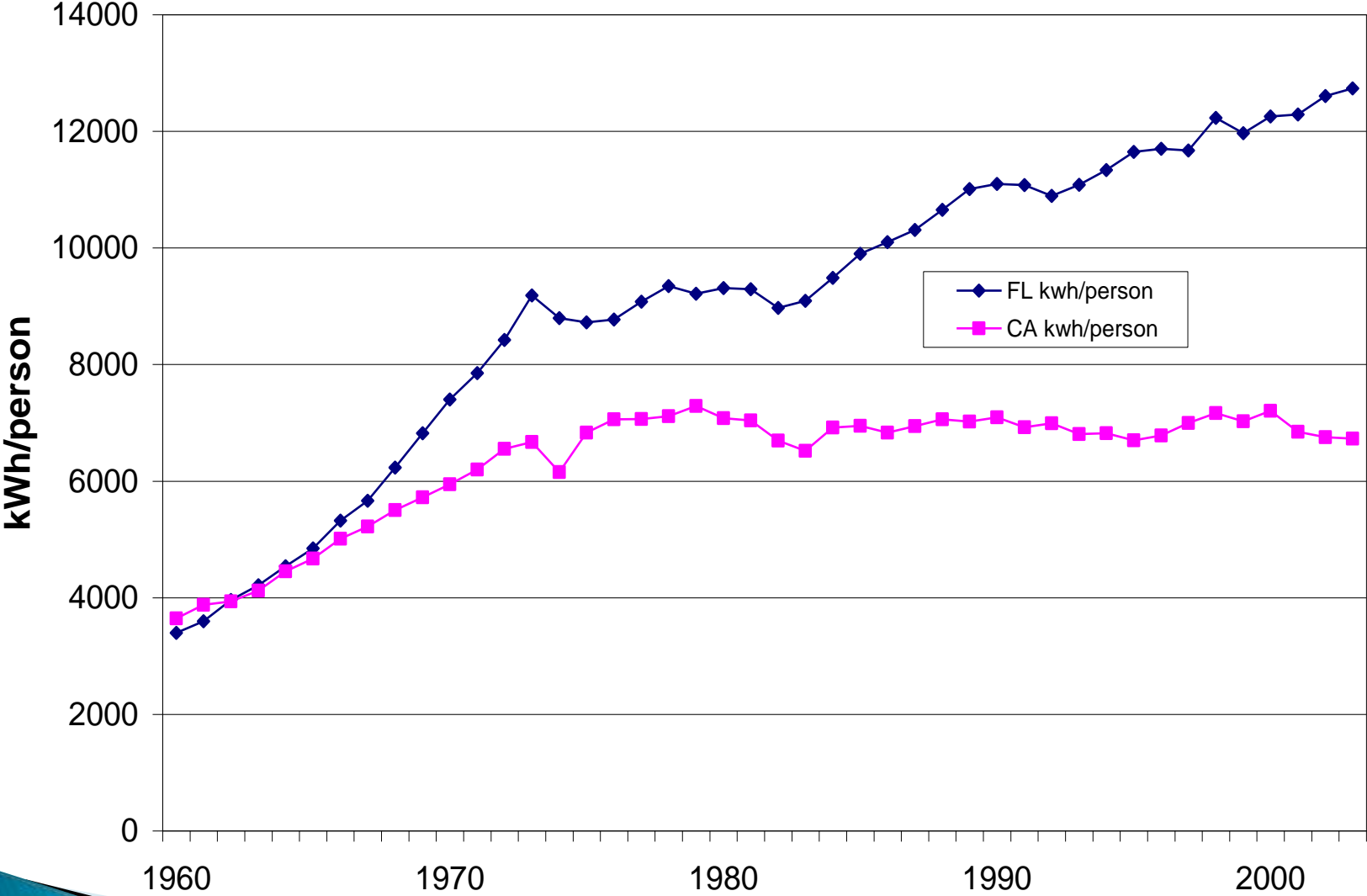
The Economics of Power Generation
A global study of the size and cost of measures to reduce greenhouse gas emissions yields important insights for businesses and policy makers

http://www.mckinsey.com/client-service/ccsi/pathways_low_carbon_economy.asp

Facts:

- Florida –per capita residential electrical intensity 42% higher than national average
 - source: Energy Information Administration, 2005 data.
 - Significant benefits to be gained through increased energy efficiency
 - Energy efficiency – fastest, cheapest, cleanest energy resource
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FL v. CA Electricity Use per Capita



Off-Shore Drilling

- ▶ Change in policy of

Emergency rig on way to slick site

August 25, 2009 – 1:55PM

A mobile drill rig is headed to the site of an oil slick off the WA coast, but it could be almost three weeks before it is able to be used in clean-up efforts.

PTTEP Australasia, which contracted the West Atlas rig from which oil started spilling on Friday, said today the mobile rig will soon be dispatched to the Montara development, about 250km off the coast, from the Indonesian port of Batam.

However, the rig, which will be used to drill a relief well to cap the line and stop the leak, would take 17 days to be ready to start its work.

A Perth-based PTTEP technical team had decided the relief rig, the West Triton, would be placed about 2km from the West Atlas, a company spokesman said.

Once drilled, it will allow heavy mud to be injected into the existing bore to stem the flow of oil.

The company was also looking into using other rigs in the area, and other options to stop the leak and prevent further damage, the spokesman said.

These included flying specialist equipment in from Singapore to "deluge" the West Atlas as a fire control measure, though contracting the specialist Ilyushin IL-76 aircraft to do this could take a week.

The owner and operator of the West Atlas and West Triton rigs, Seadrill, had sent an investigation team to Perth to try to find out the cause of the spill.

This story was found at: <http://www.watoday.com.au/wa-news/emergency-rig-on-way-to-slick-site-20090825-exrv.html>

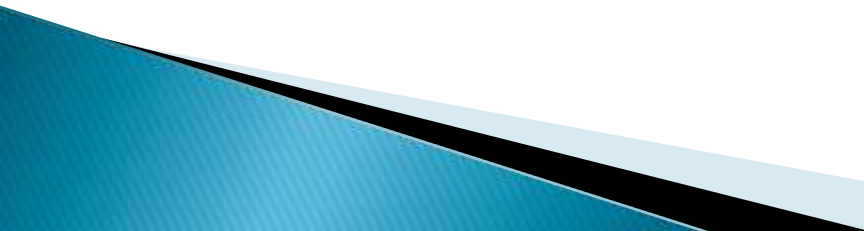
Promises of Safety?

Sandia Lab – GM Biofuels Study

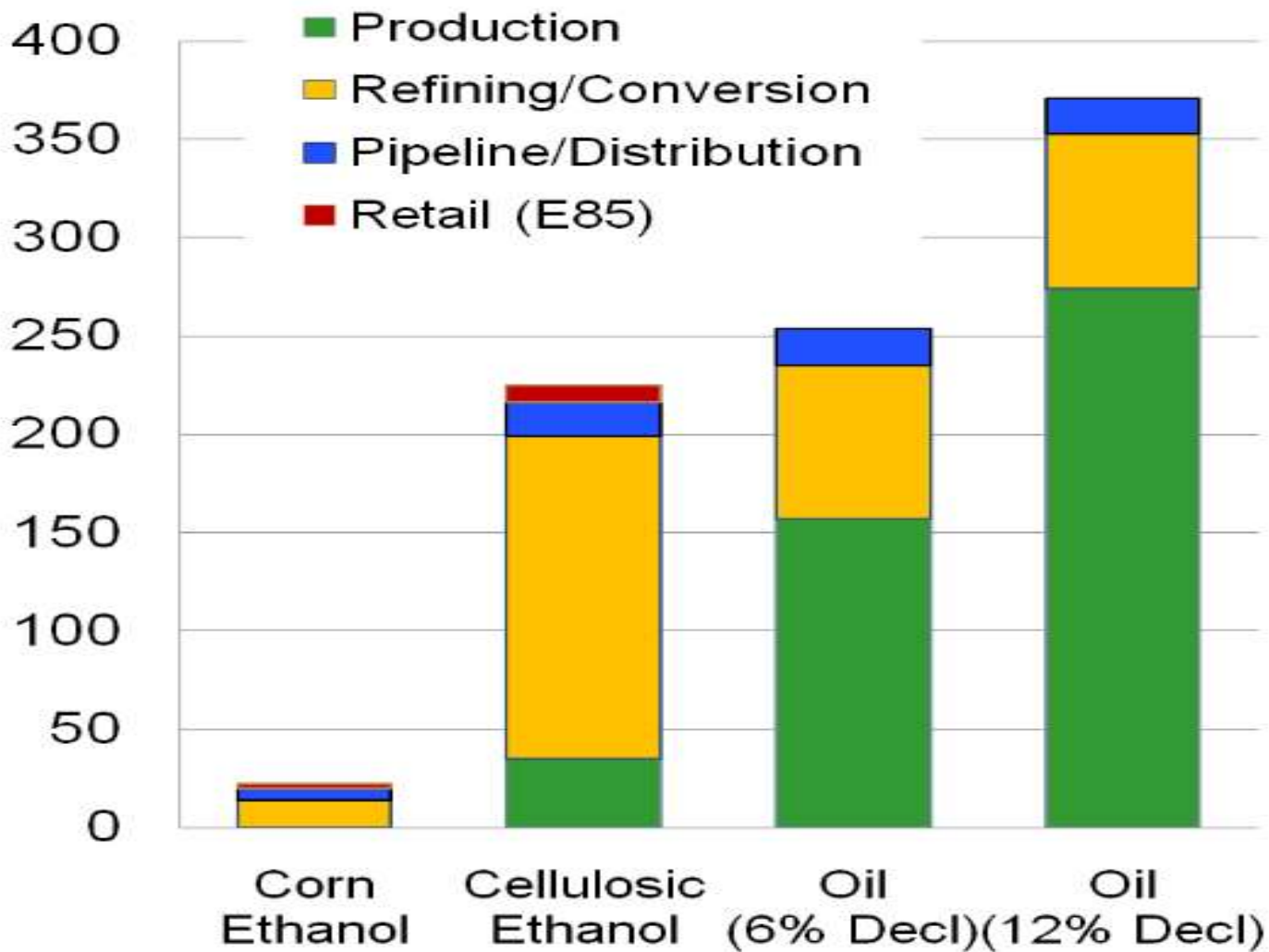
Large-scale production of advanced biofuels produced from plant and forestry waste and dedicated energy crops is achievable and sustainable by 2030.

Costs for 60 billion gallons of cellulosic ethanol is equivalent to or less than that required for new long-term petroleum production.


Study represents the first true value-chain approach to assessing the feasibility, implications, limitations, and enablers of large-scale production of biofuels in the United States



Capital Investments Required, \$B



Federal Action

- US House Passes HR 2454
American Clean Energy & Security Act
Passed 219 – 212 on June 26, 2009
 - US Senate –Energy Bill/Climate Bill
 - United Nations Framework Convention on Climate Change December 7 –19, Copenhagen
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Florida's Economy at Risk

Climate Impacts to Florida – A State on the Front Line

- Projected increases in air and water temperatures will cause heat-related stresses for people, plants and animals
- Decreased water availability affects the region's economy and its natural systems
- Sea level rise and the likely increase in hurricane intensity and associated storm surge
- Major disruptions to ecosystems
- Quality of life – increasing heat stress, water scarcity, severe weather events, reduced availability of insurance for at-risk properties

<http://www.globalchange.gov/images/cir/pdf/southeast.pdf>

Florida's Economy at Risk

- ▶ Early Action Costs Less than Inaction
 - Stern Review, Tufts
 - ▶ Green Jobs and Investment
 - Florida's Missing an Opportunity
 - ▶ Mitigation –Reducing CO2 significantly
 - ▶ Adaptation – Swiss Re Global Study
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