IEA WPFF – MOST/Acca21 CCUS Workshop
Raffles Beijing Hotel, 18 – 19 September 2011

Jostein Dahl Karlsen
Chair, IEA Working Party for Fossil Fuels
WPFF Impact 2001-2005
Programs align with ZETs

ZETs 2001… 2002…… 2003(CSLF)  2005++

WPFF strategy
“Zero Emissions Technologies for Fossil Fuels”, ZETs

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U.S.—FutureGen
Australia—Coal

Germany

United Kingdom—Carbon Abatement Technologies Program

EU

Coal21

ZETs

Coal21
Working the Global Community on CCS; IEA/CSLF High-level Dialogue

By Sept. 2011: **No Power Plants so far with CCS (or under construction)**
What has been happening?
“The Death Valley” of Capital Intensive Technologies

- Excess Cost
- Risks too high
- Limited Funding – a need to bridge the gap!
- Permits
- Public Acceptance

INTernational Energy Agency

Working Party for Fossil Fuels, WPFF
ARE WE ENTERING A GOLDEN AGE OF GAS?

WORLD ENERGY OUTLOOK 2011

Special Report
Historical global electricity consumption

- End of World War II
- 1st Oil Price Shock
- US Recession
- 2nd Oil Price Shock
- Asian Economic Crisis
- Black Monday Stock Market Crash
- Dot-com Bubble Burst
- Global Credit Crunch

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Key Observation Global CCS

Only Top Down Dialogue Unrealistic!
Observation (2)

Country / country level & regional + Cross-regional **collaboration** currently **undervalued**
WPFF New Bottom-up Approach
WPFF 2010-2012 Strategy

WPFF Pillars:

“Future Fuels”
Focus: “Next Generation” fossil energy

CCS Implementation
Focus: International projects

Global Outreach
Focus: Dialogue with Major Player NMCies (G8+5/BRICS)
- Beijing, June 2010
- Rio de Janeiro, July 2011

MOST-IEA WPFF Workshop & CSLF Ministerial Beijing Sept ‘11
Coal Power Currently under Construction

WPFF – MOST Large Scale CCS Knowledge Exchange Network
CCS Knowledge Exchange

Lessons Learned Experience Transfer

<table>
<thead>
<tr>
<th>Permitting</th>
<th>Applications, regulations, acceptance requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liabilities</td>
<td>CO₂ Storage Liabilities</td>
</tr>
<tr>
<td>Financing</td>
<td>Electricity premium</td>
</tr>
<tr>
<td>Methodology &amp; HSE</td>
<td>Design specs, capture rates definitions</td>
</tr>
<tr>
<td>Operational Experience</td>
<td>General operation; measurement &amp; instrumentation</td>
</tr>
<tr>
<td>Storage</td>
<td>TCM Storage capacity &amp; plume dynamics</td>
</tr>
<tr>
<td></td>
<td>FutureGen</td>
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<tr>
<td></td>
<td>Porte Tolle</td>
</tr>
</tbody>
</table>

INTERNATIONAL ENERGY AGENCY
Working Party for Fossil Fuels, WPFF
Oil, Gas and Coal Resources for the Next Centuries

New WPFF Focus area: Alternative Liquid Fuels
Emerging Early Opportunities

CCSU (C)
Next Generation Energy
Resources to Reserves – Production Cost Curve
(including a carbon tax of $50 per tonne CO₂-equivalent emissions)

Source: “Resources to Reserves”, IEA Forthcoming
Tracking Regional & Global Status of CCS;

IEA WPFF – MOST/Acca21 CCS Workshop
Beijing, 18 – 19 September 2011
Thank you
Back-up
CCS Implementation
An ambitious global challenge

IN SUMMARY – Backdrop to Event;
Forge Near Term Commitment to Reach Long Term Goals