

Session II

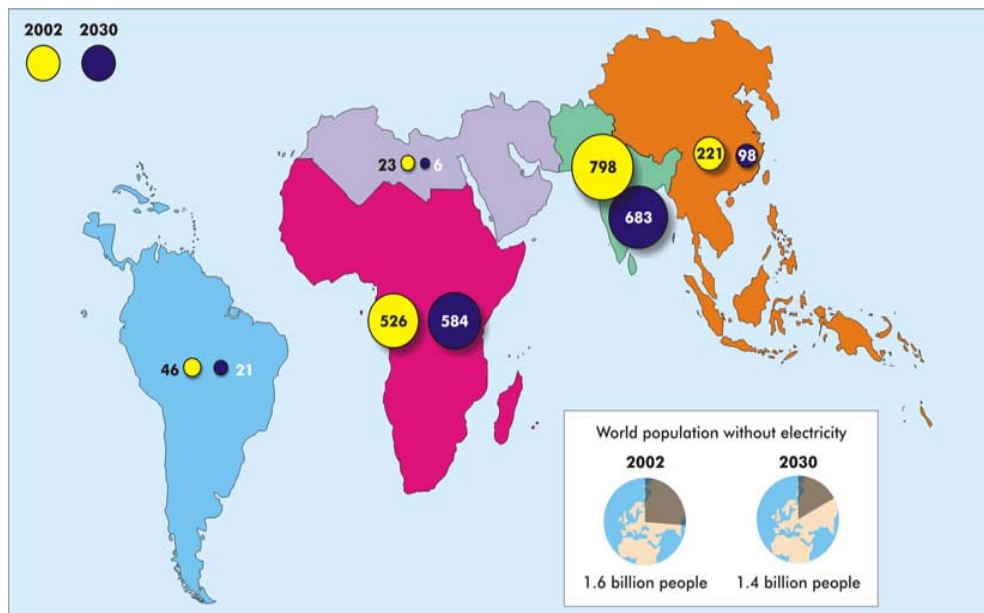
Future Cleaner Fossil Fuels Systems

**The World Energy Council (WEC)
Committee on Cleaner Fossil Fuels Systems (CFFS)
and Craiova Power Energy Complex Workshop on
CLEANER FOSSIL FUELS FOR SUSTAINABLE DEVELOPMENT**

**Neptun, Romania
June 13, 2006**

**Barbara N. McKee
Chairman, CFFS Committee
Session Chairman**

Challenge: Energy to Meet Human Needs



Indicator of Human Welfare	Commercial Share of Total Energy		
	0-20 %	21-40 %	41-100 %
Life Expectancy (Years)	59.8	69.0	69.5
Probability of not surviving to 40	21.7	9.4	9.1
School Enrollment (%)	52.4	65.4	76.9
Children Underweight (%)	40.9	15.1	11.9
No Access to Clean Water (%)	20.9	22.8	12.8

Source: IEA World Energy Outlook

Challenge: Meet Environmental Needs



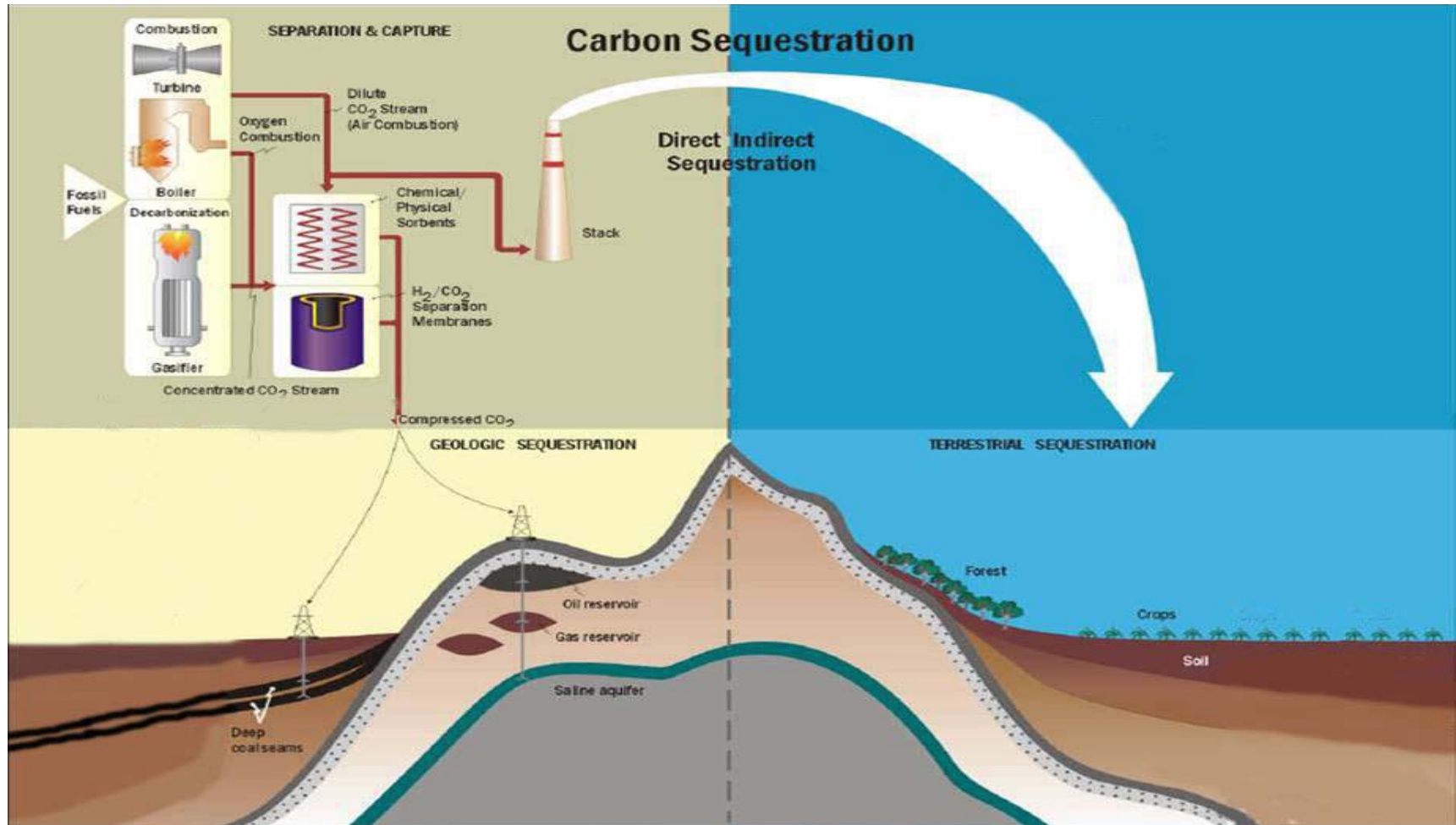
Cleaner Fossil Fuels Systems Committee

Needed: Affordable New Technology



Cleaner Fossil Fuels Systems Committee

Challenge: Develop and Deploy New Technologies



Challenge: Create market drivers and policies.

**Technology
Firms**



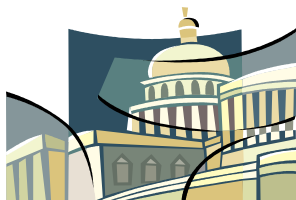
**Energy
Companies**



**Financial
Institutions**



Government



**Environmental
NGOs**



**Academic
Institutions**



Teamwork is needed to meet the challenges.

- ▶▶ Reach goals and solve problems faster
- ▶▶ Reduce costs to each participant
- ▶▶ Stimulate creativity and learn from each other
- ▶▶ Use complementary capabilities to solve problems
- ▶▶ Facilitate feelings of shared interest and facilitate world peace

No one can meet the challenges alone.

Session Agenda

- ▶▶ **New Multi-Generation Systems**
Robert Gentile, Leonardo Technologies, United States
- ▶▶ **Deployment and Dissemination**
Zara Khatib, Shell EP International Limited
- ▶▶ **Market Drivers**
Michael Moore, Falcon ES-CO2 Global, United States
- ▶▶ **R&D Prerequisites**
Gurgen Olkovsky, VTI, Russia
- ▶▶ **CSD Policy on Global Fossil Fuel's Future**
Peter Mak, United Nations
- ▶▶ **Open Discussion**