FIRST TECHNOLOGY PILOT DEDICATED TO CAPTURE CO2 WITH CHILLED AMMONIA

11 A.M. CST, WEDNESDAY, FEB. 27, 2008

CALL-IN INFO: **1-800-909-5202; password: 5394260**

Webcast Info: Meeting URL:
https://www.livemeeting.com/cc/epripremier/join

Meeting ID: DWM6ZR

Meeting Key: 7qMP&"dqT

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EPRI ELECTRIC POWER RESEARCH INSTITUTE

Henry A. Courtright, P.E.

Henry A. “Hank” Courtright serves as Senior Vice President of Member Services at the Electric Power Research Institute (EPRI). He is responsible for member/client relations, technology innovation and EPRI’s Energy Technology Assessment Center. He has previously served as Vice President, Environment overseeing EPRI environmental sciences research; as Vice President, Generation overseeing research on fossil, hydro and renewable generation; and as a Technical Director on energy efficiency programs.

Courtright has over 30 years of experience in the electric utility industry with EPRI and Pennsylvania Power and Light Company.

Chilled Ammonia Process
P4 Pilot Project
Press Conference

27 February, 2008

Jean-Michel Aubertin

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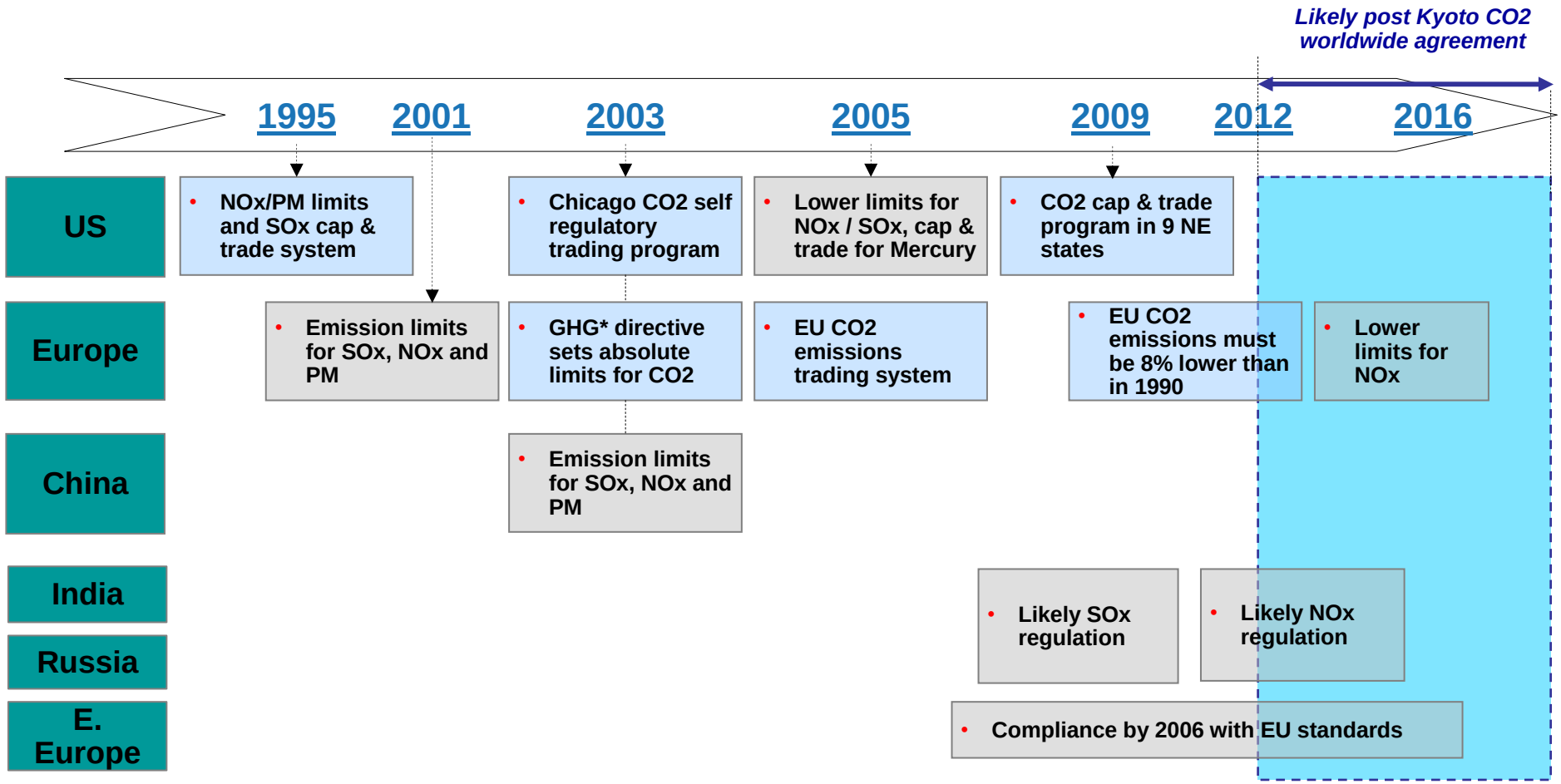
Environmental legislation - a key driver for change

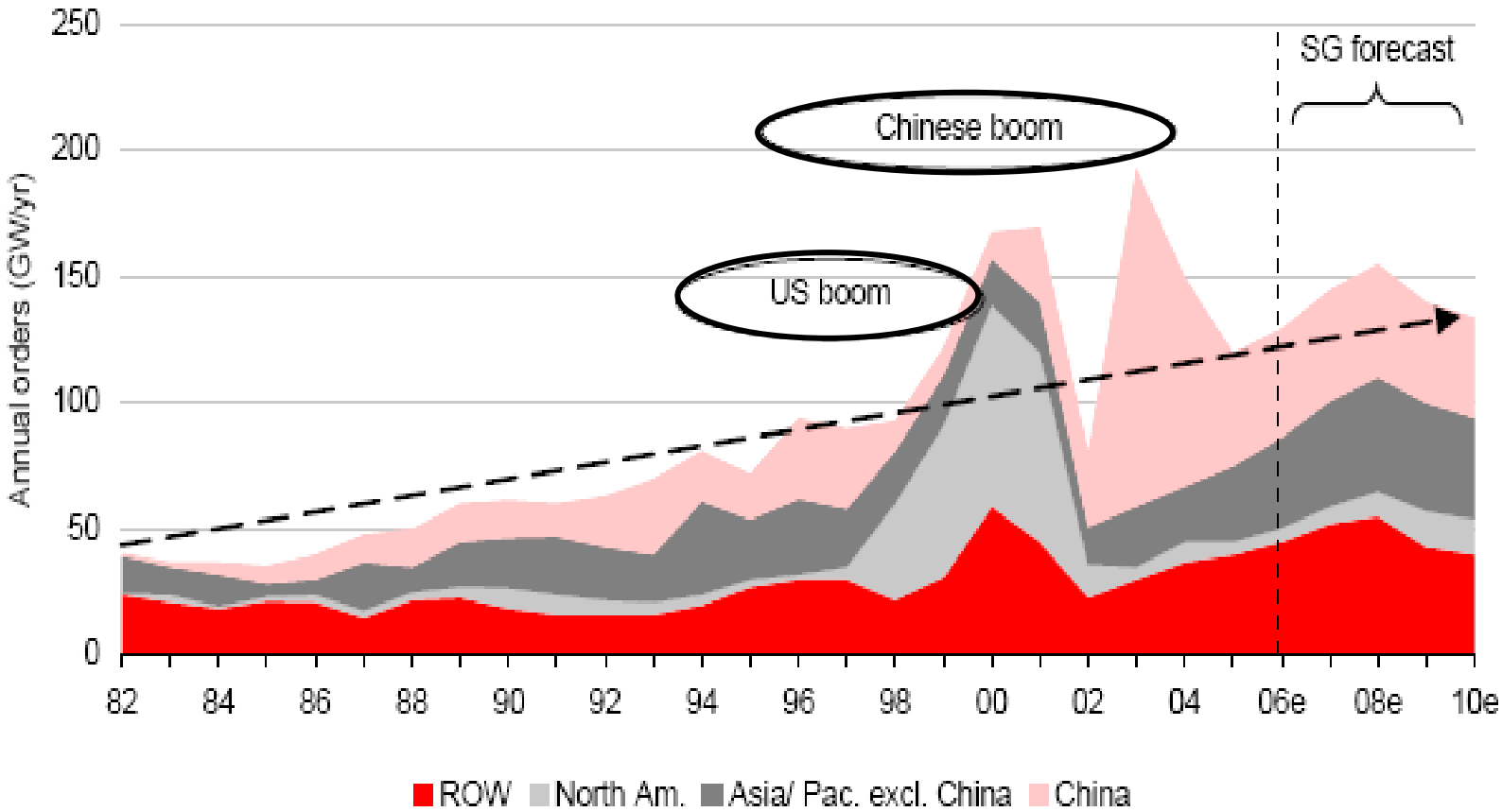


Traditional pollutant legislation driving US/Europe market
CO2 constraints are becoming the driving factor worldwide

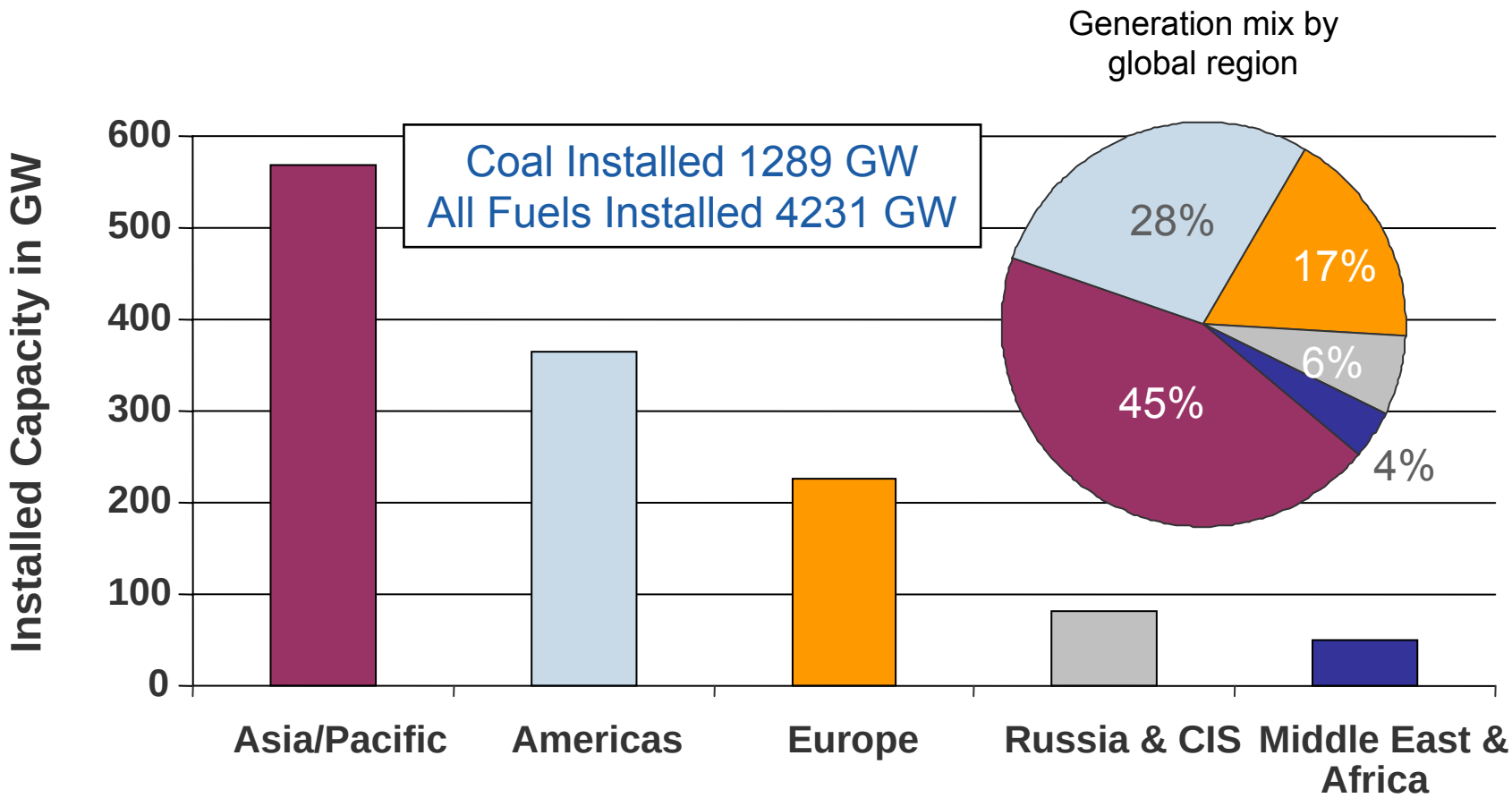
Source : IPCC, ALSTOM analysis

Electricity demand drives continued growth for power generation equipment

World New Equipment Market - 1982-2010e

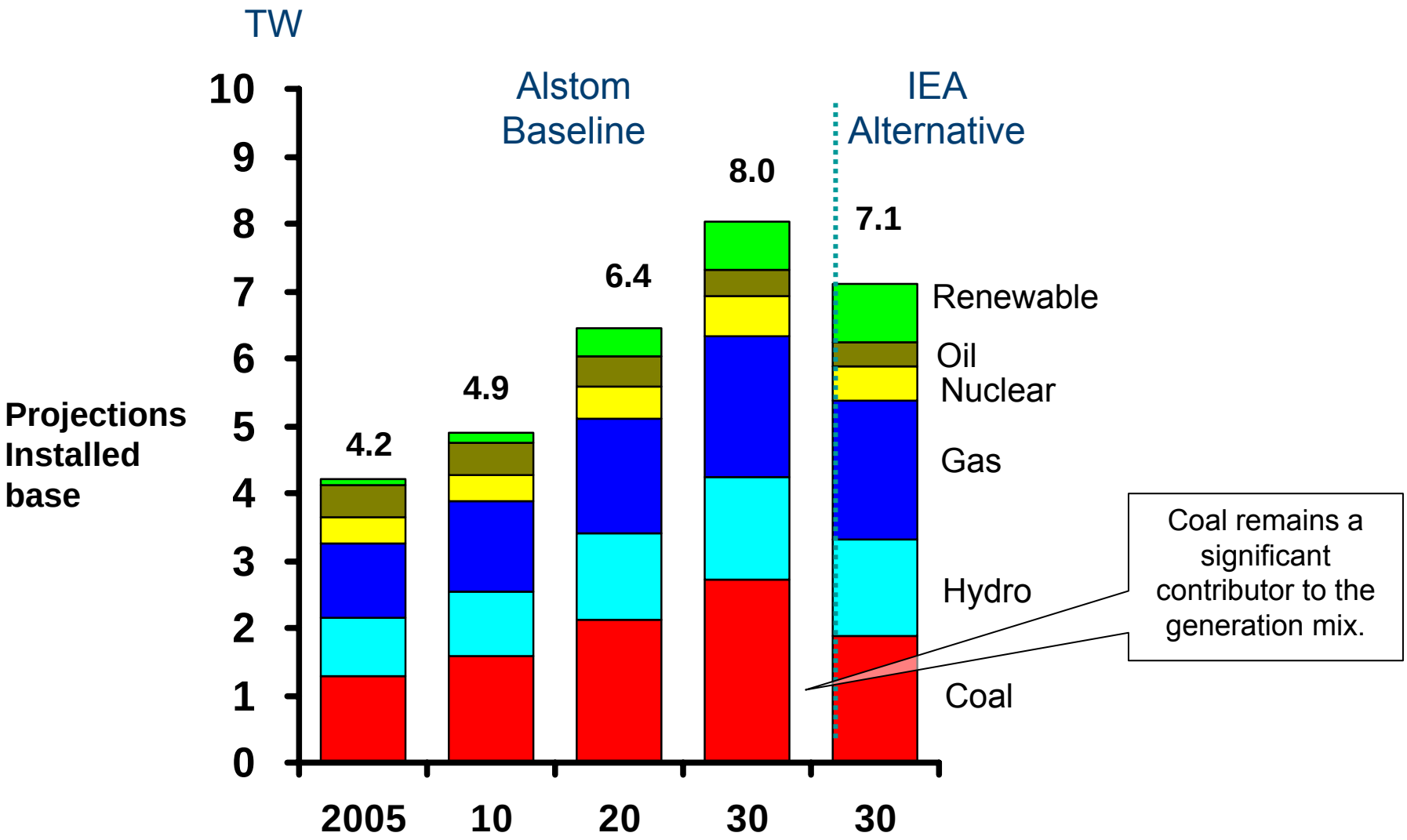


Power Generation Market
- 30% of Global Installed Base is Coal Fired

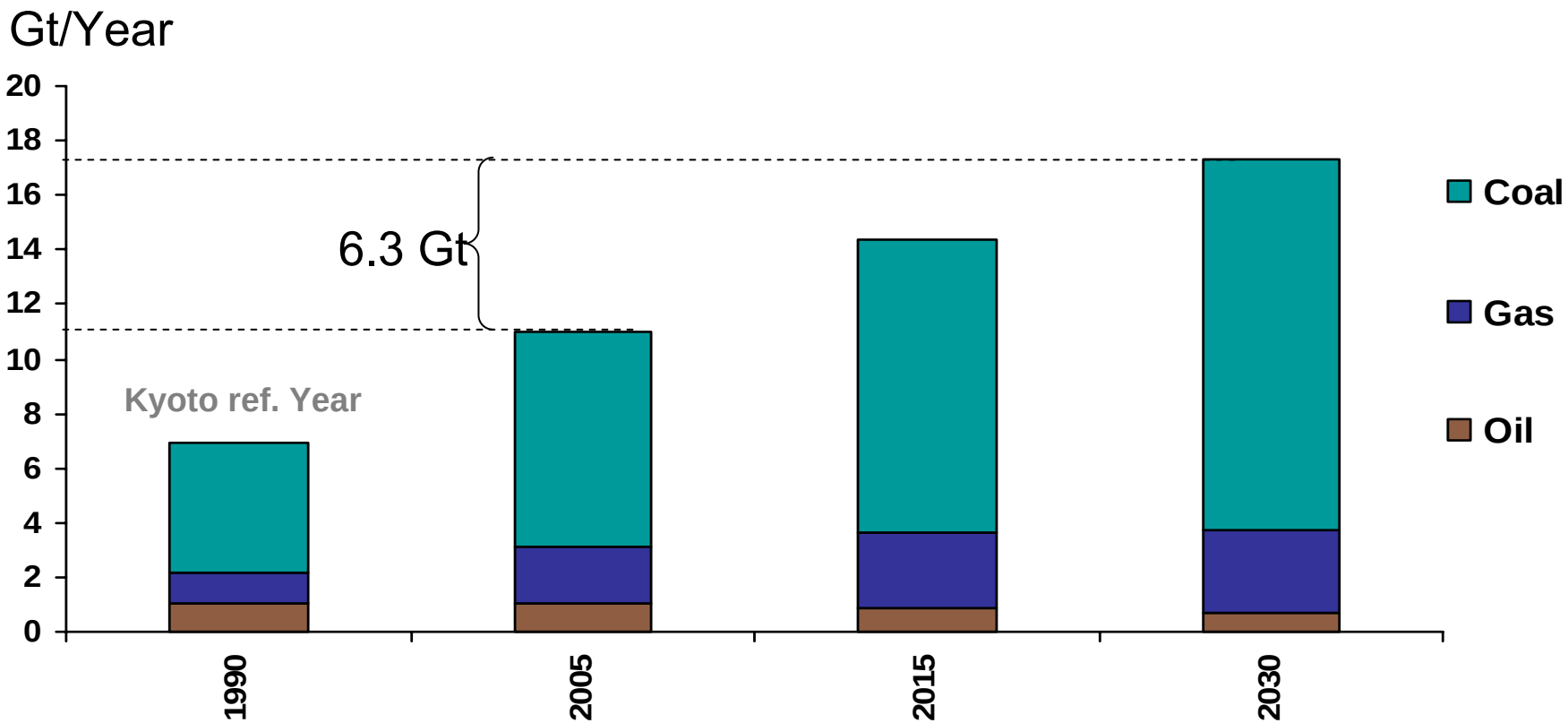


Source: Alstom, UDI 2006

Fossil fuels will stay dominant in power generation



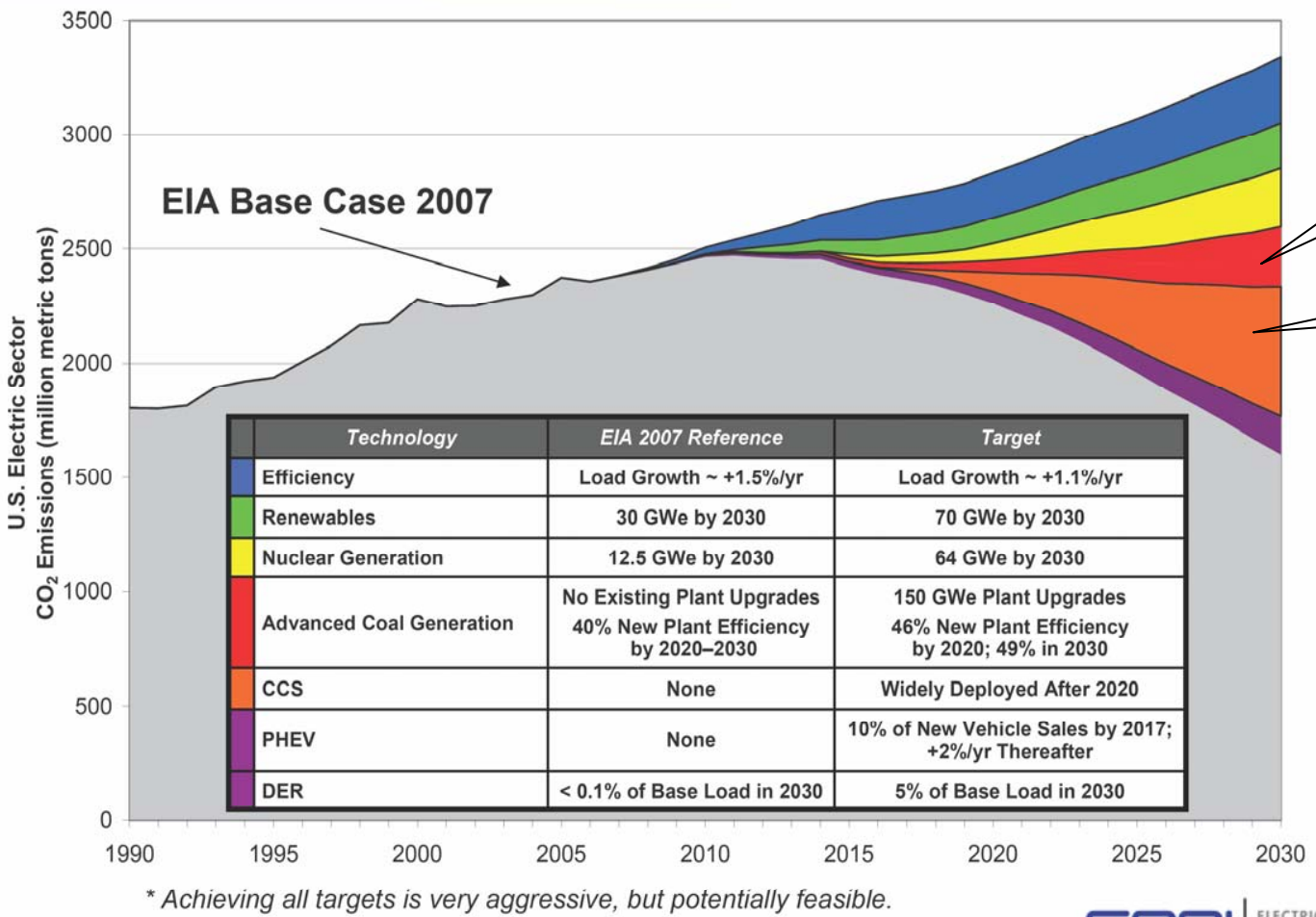
CO_2 emissions will increase significantly



Without CO_2 capture, 2030 emissions are > 6 GT above 2005 levels

Advanced coal and CCS are an essential part of the future generation mix

The US Government is committed to balanced energy portfolio that includes nuclear and clean coal



Technology	EIA 2007 Reference	Target
Efficiency	Load Growth ~ +1.5%/yr	Load Growth ~ +1.1%/yr
Renewables	30 GWe by 2030	70 GWe by 2030
Nuclear Generation	12.5 GWe by 2030	64 GWe by 2030
Advanced Coal Generation	No Existing Plant Upgrades 40% New Plant Efficiency by 2020–2030	150 GWe Plant Upgrades 46% New Plant Efficiency by 2020; 49% in 2030
CCS	None	Widely Deployed After 2020
PHEV	None	10% of New Vehicle Sales by 2017; +2%/yr Thereafter
DER	< 0.1% of Base Load in 2030	5% of Base Load in 2030

** Achieving all targets is very aggressive, but potentially feasible.*

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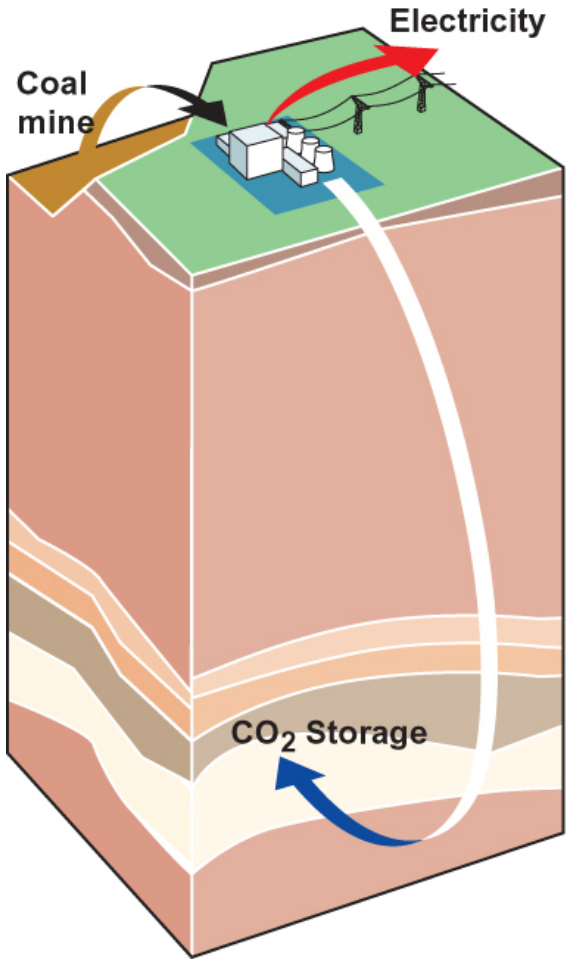
Carbon Capture & Storage (CCS)

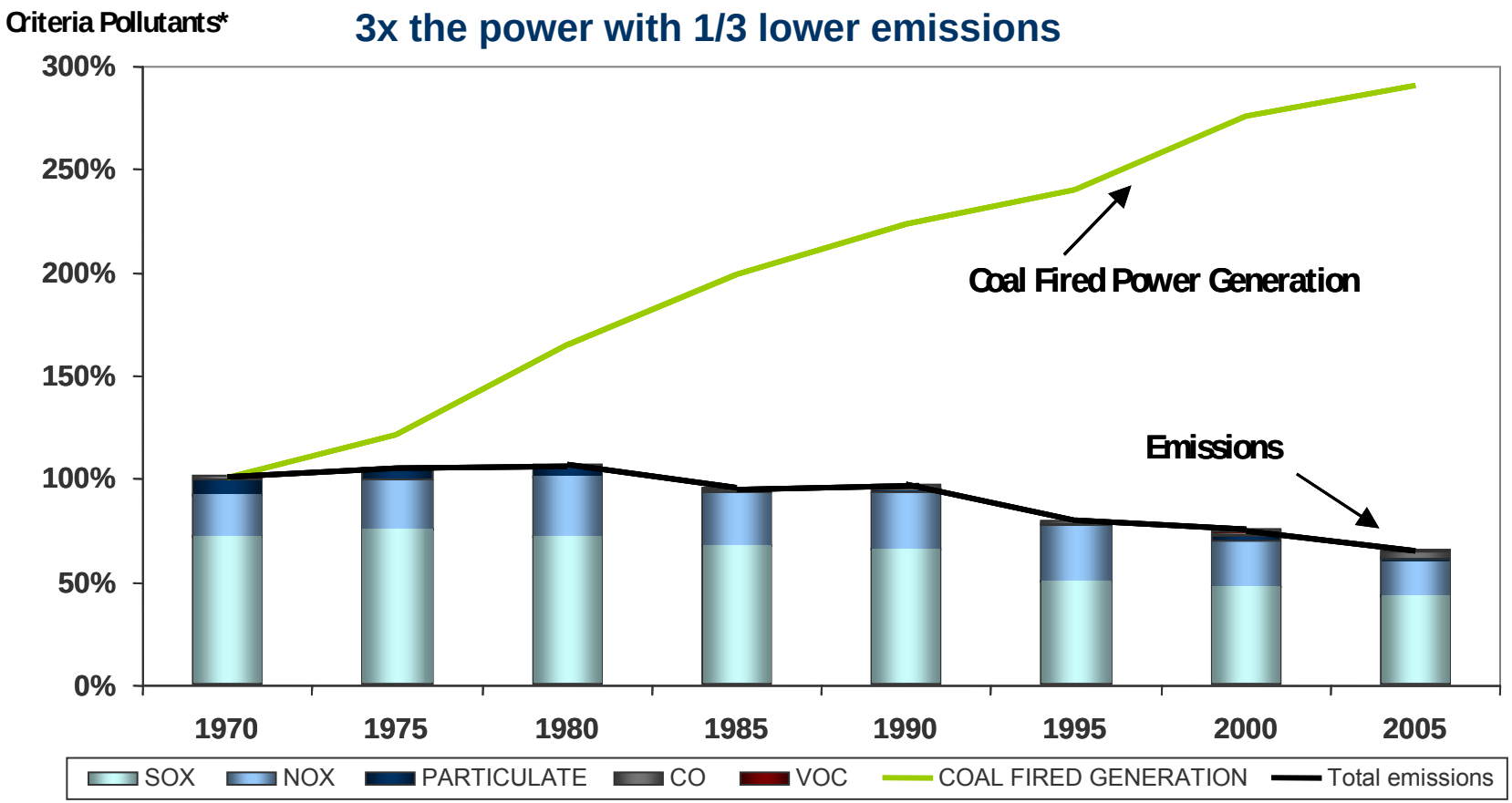


Picture: Vattenfall

CO_2 Storage options:

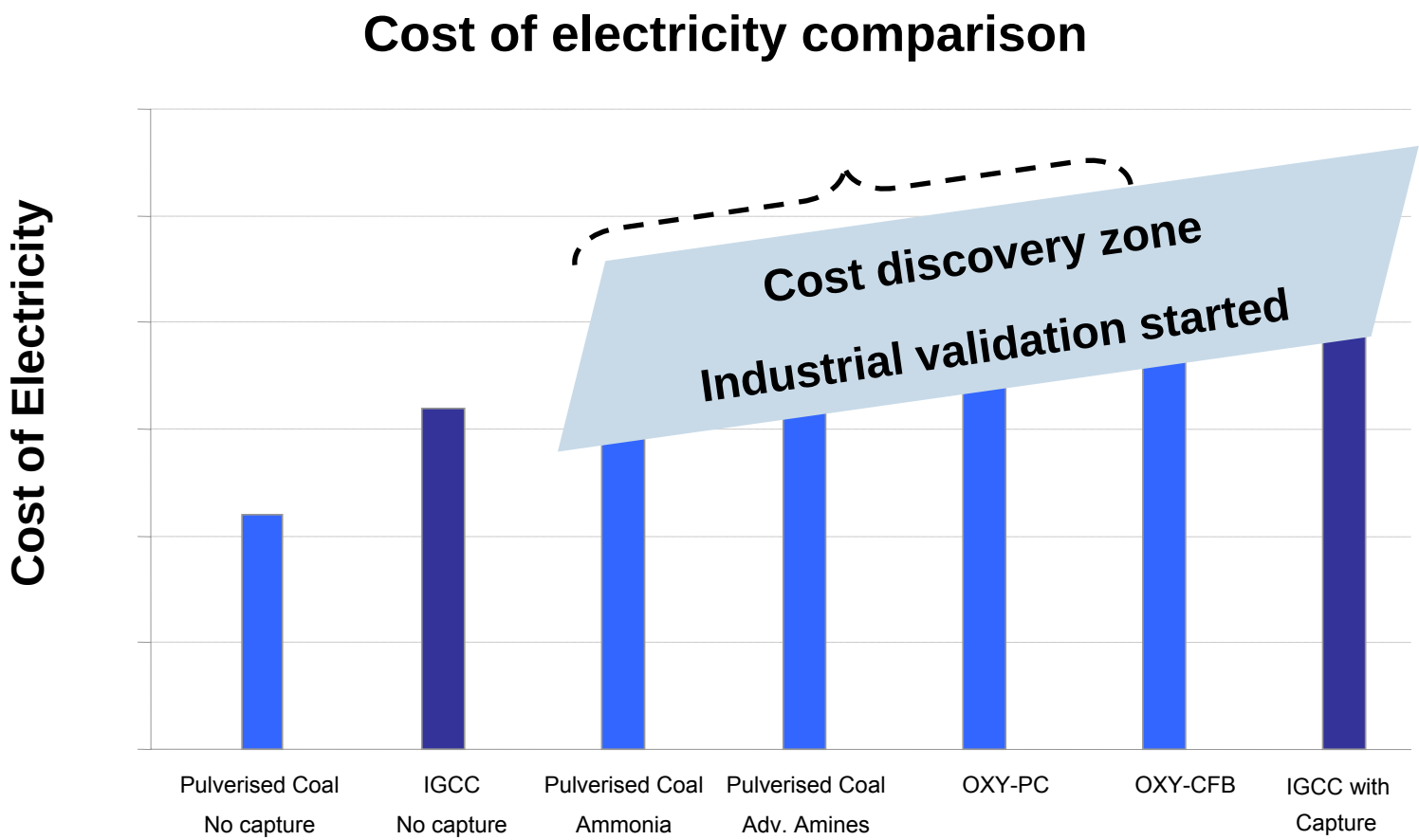
- Enhanced Oil Recovery (EOR)
- Deep Saline Aquifers
- Depleted Gas Fields

The industry has a track record of success in meeting clean air challenges

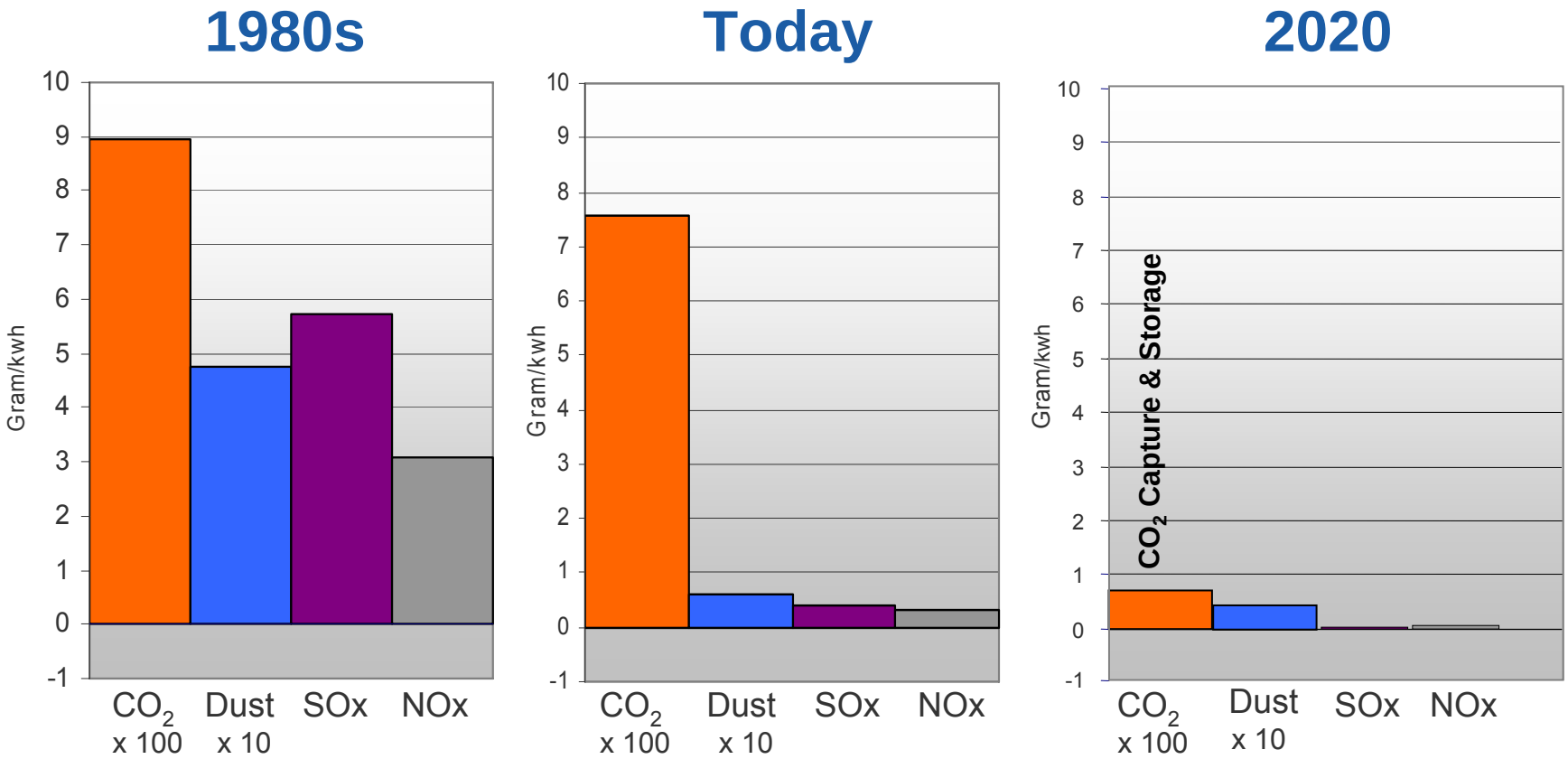


- *Sum of NOx, SOx, CO, Particulate and VOC emissions from all US power plants
- Coal power generation is 2.9 X that of 1970 while power plant emissions are 36% lower
- All numbers are compared to 1970 which is taken as 100%

New technologies now promise CCS at a reasonable cost



CCS enables the industry to evolve towards a “zero emission” target



Carbon Capture and Storage (CCS)
Getting to the future of de-carbonized power

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- Large reserves of low cost coal driving technology to solve coal's carbon management penalty
  - Power emissions cannot be stabilized without CCS
  - Retrofitable CCS technologies are a must
- Driving technologies to higher efficiency, particularly ultra-supercritical PC, is a solid strategy for lower CO_2 in the near and longer term
- Carbon Management solutions are promising for <u>both the Existing Fleet and the New Fleet</u> through:
  - Efficiency improvements
  - Carbon neutral fuel
  - Post combustion capture
  - Alternate combustion techniques.

We are moving beyond paper…..only demonstration will determine the "real" lowest cost solution

The Alstom group

Equipment & services for power generation

Equipment & services for rail transport

Technologies adapted to all energy sources

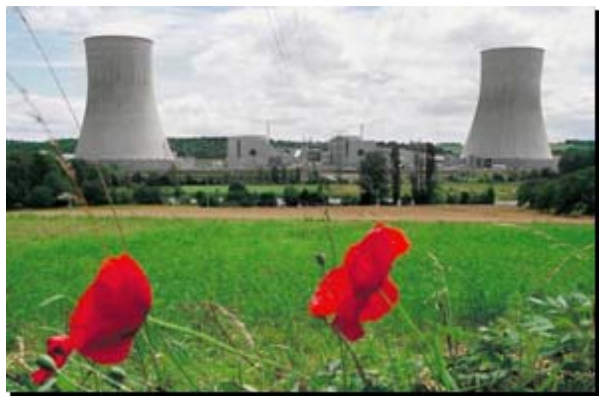
Present in all markets

Gas

Coal

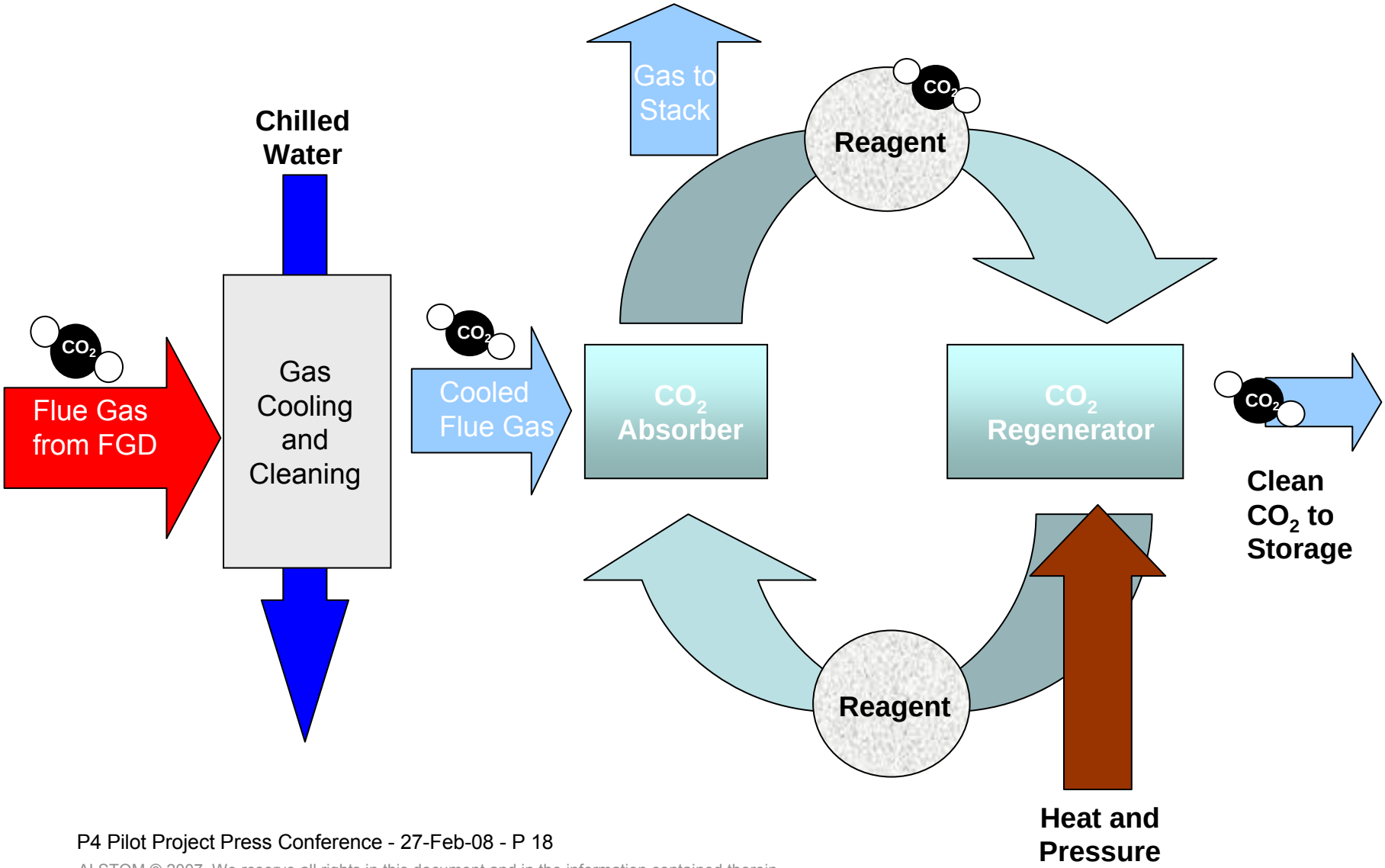
Hydro

Nuclear (conventional part)



Wind

Chilled Ammonia Process Description



Chilled Ammonia field pilot at We Energies

- More than 30 national and international utilities funding this project through EPRI
- Designed to capture up to 15,000 tons/year of CO_2
- Testing to continue through 2008
- Key Objectives:
  - Proof of Concept
  - Conduct long-term tests to establish process integrity
  - Measure energy consumption
  - Develop techno-economic analysis to scale the system for commercial applications

We Energies Pleasant Prairie Power Plant (P4)

Chilled Ammonia field pilot at We Energies

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