

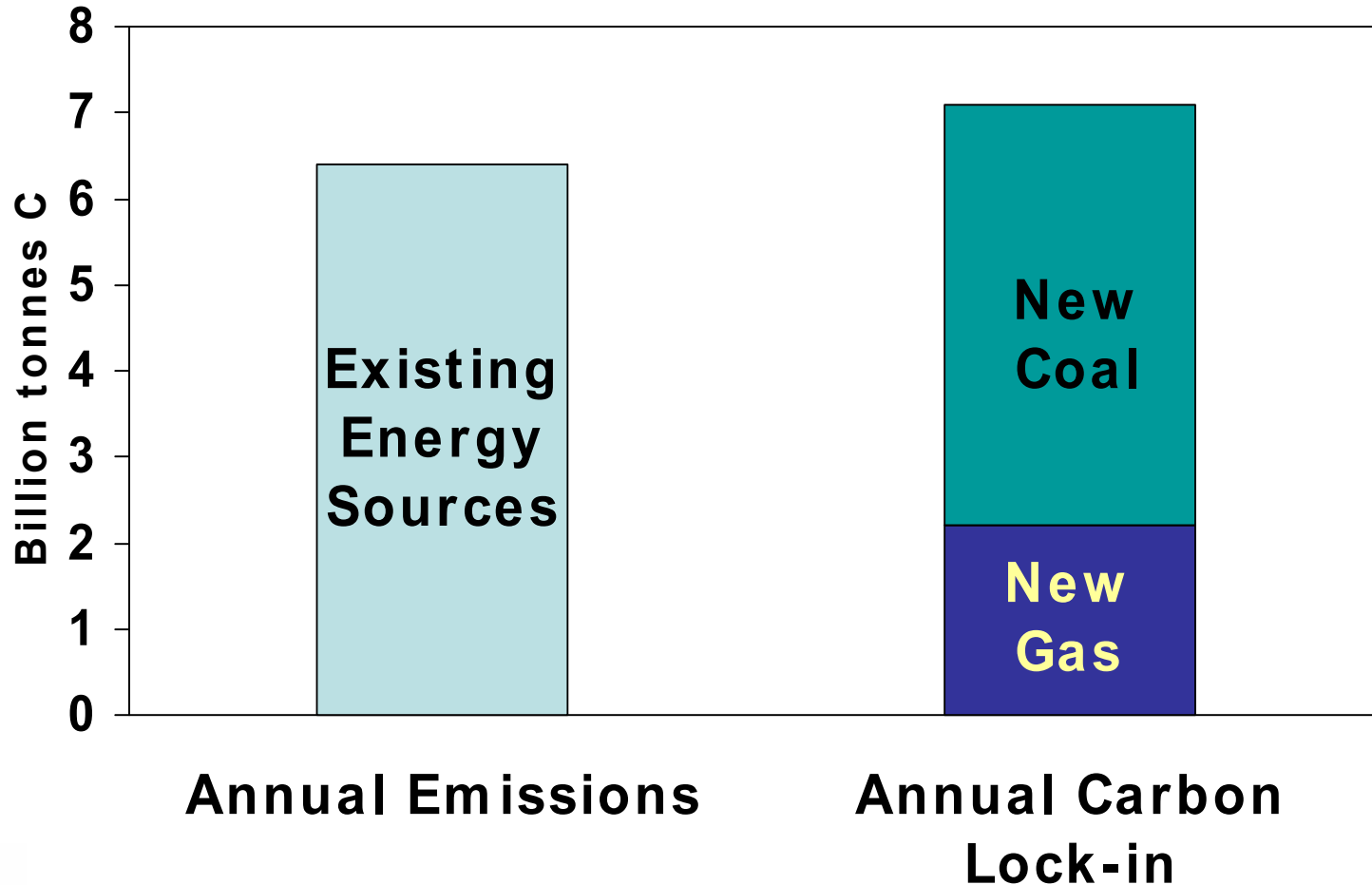
CSLF—the Path Ahead



David G. Hawkins
NRDC Climate Center
September 13, 2004

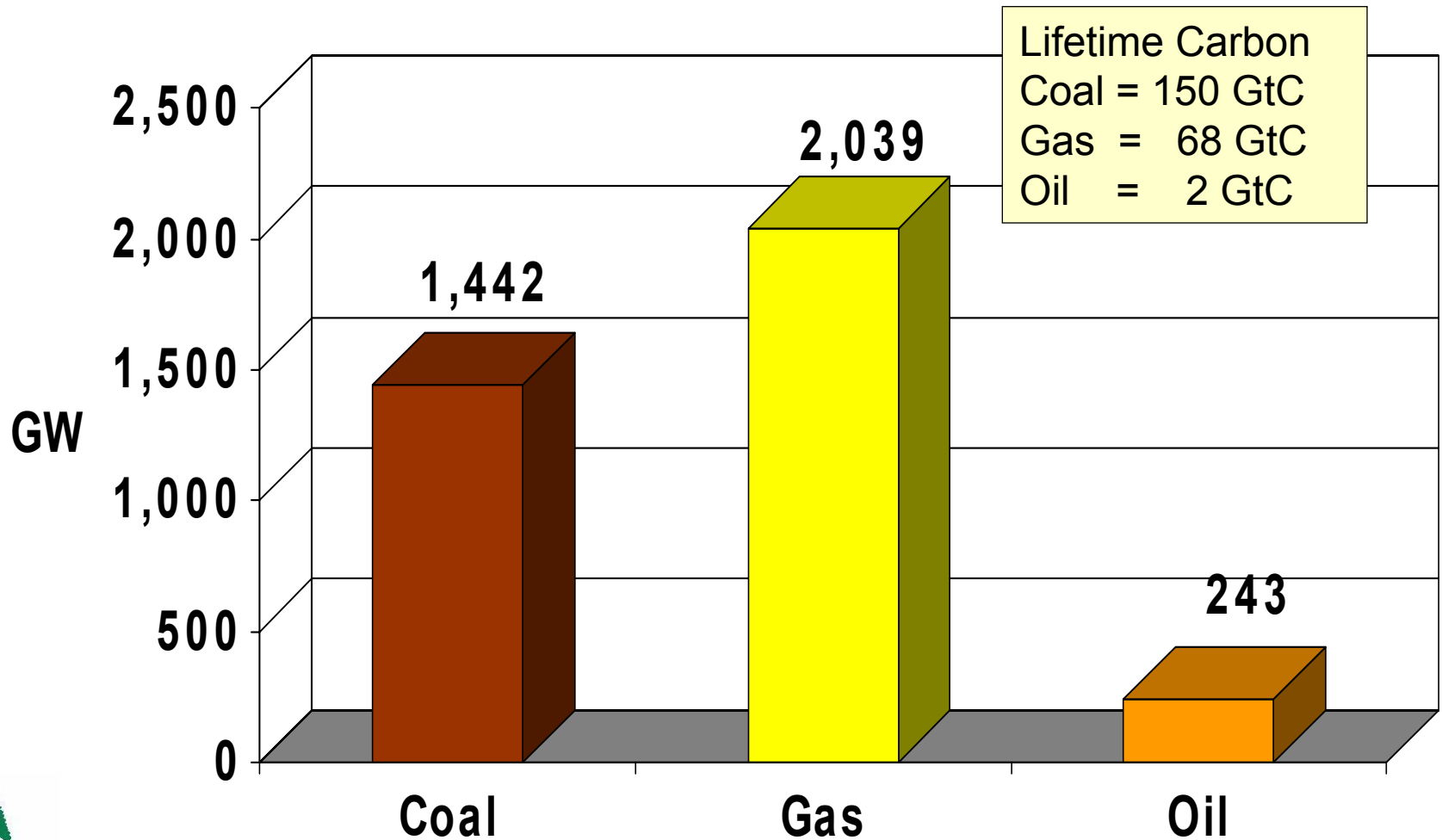
Digging Ourselves Deeper

Burning through the Carbon Budget



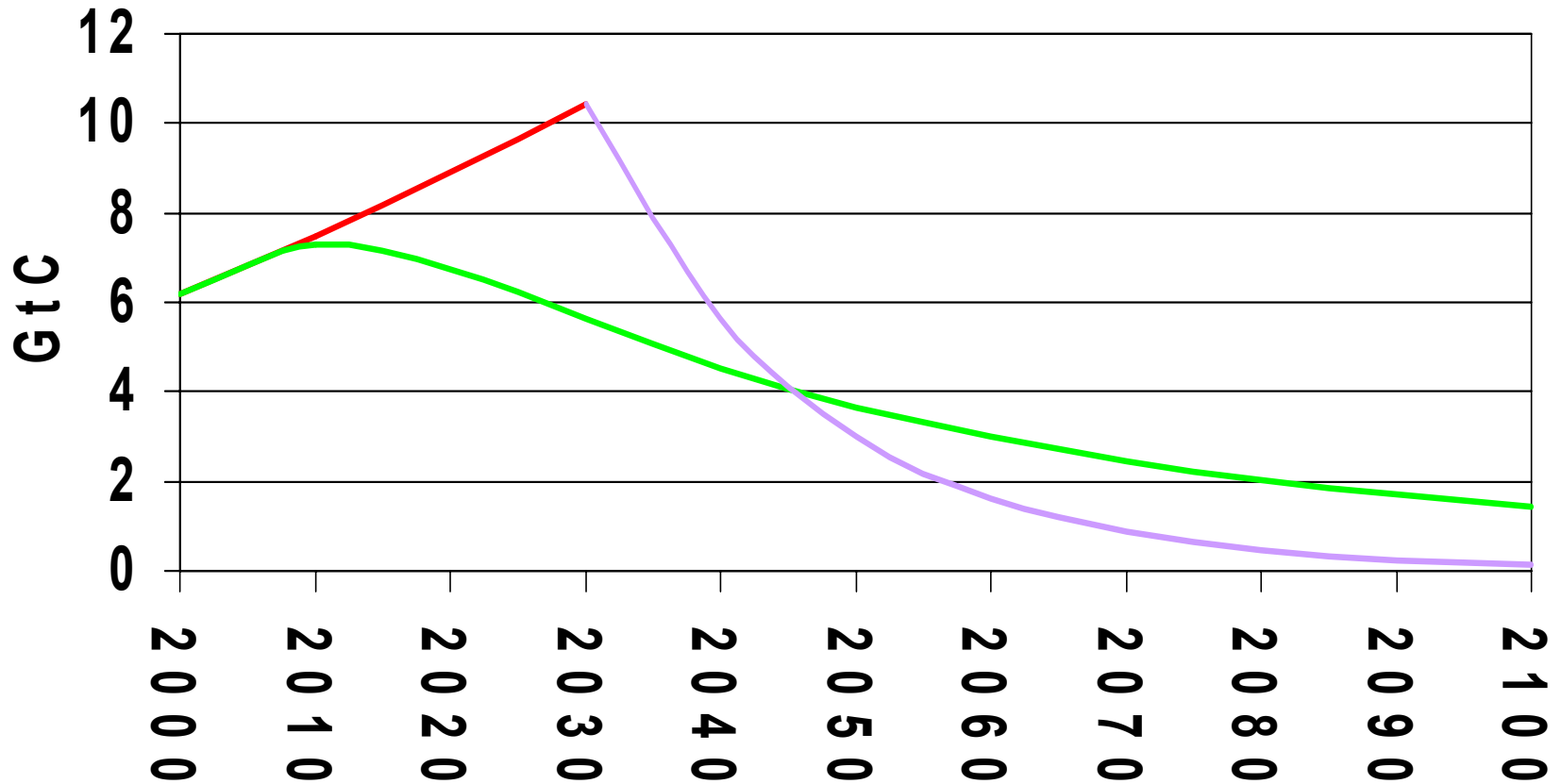
The Wrong Path--1

New Elec. Gen. Plants 2000-2030



The Wrong Path--2

Energy Carbon Emissions



— WEO 2002 — WRE 450 — 450 Delay

Private Sector Inertia

“IGCC may **only** become broadly **competitive** with PC and NGCC plants **under** a **CO2-restricted scenario**. Therefore, **vendors currently do not have** an adequate economic **incentive to invest** R&D dollars in IGCC advancement. Similarly, **power companies are not likely** to pay the premium **to install** today’s **IGCC** designs **in the absence of clear regulatory direction on the CO2 issue.**”

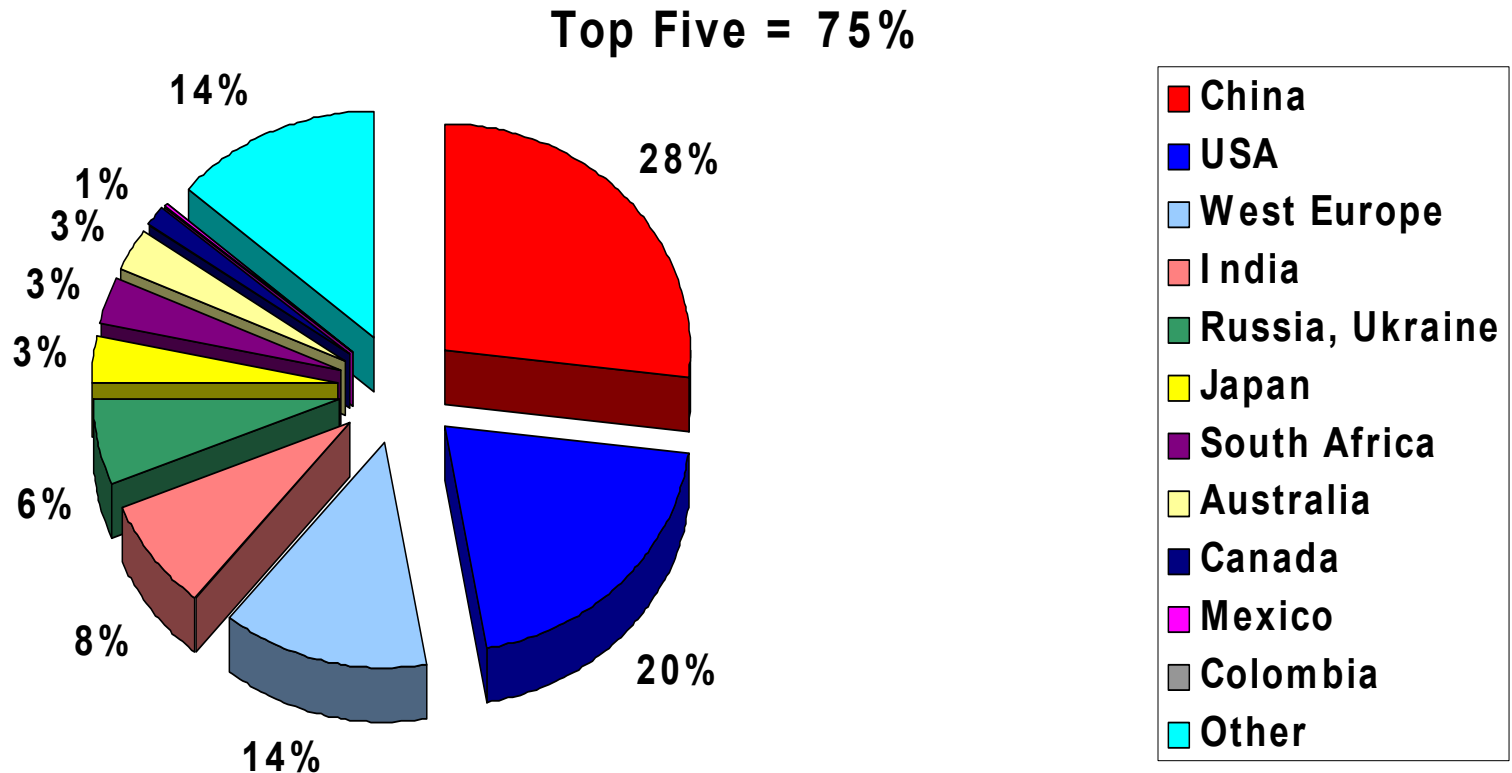
Source: U.S. National Coal Council (May 2003)

Civil Society Suspicions

- Will CCS hurt efficiency and renewables?
- Will CCS speed or delay effective action to cut emissions?
- Why are the biggest CCS proponents the strongest opponents of binding measures to cut emissions?

CSLF Coal Consumption 2002

86% of global total

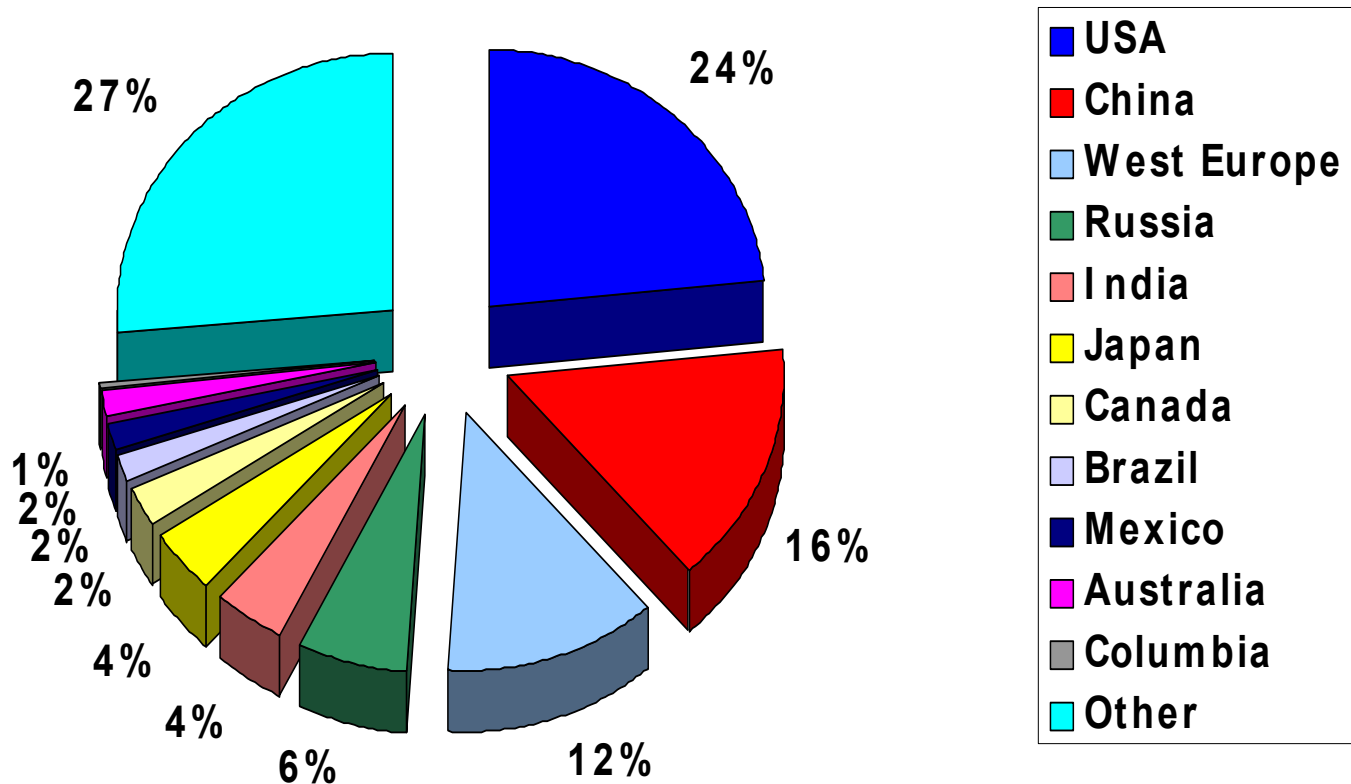


Source: EIA, IEA 2002

CSLF Emissions 2000-2025

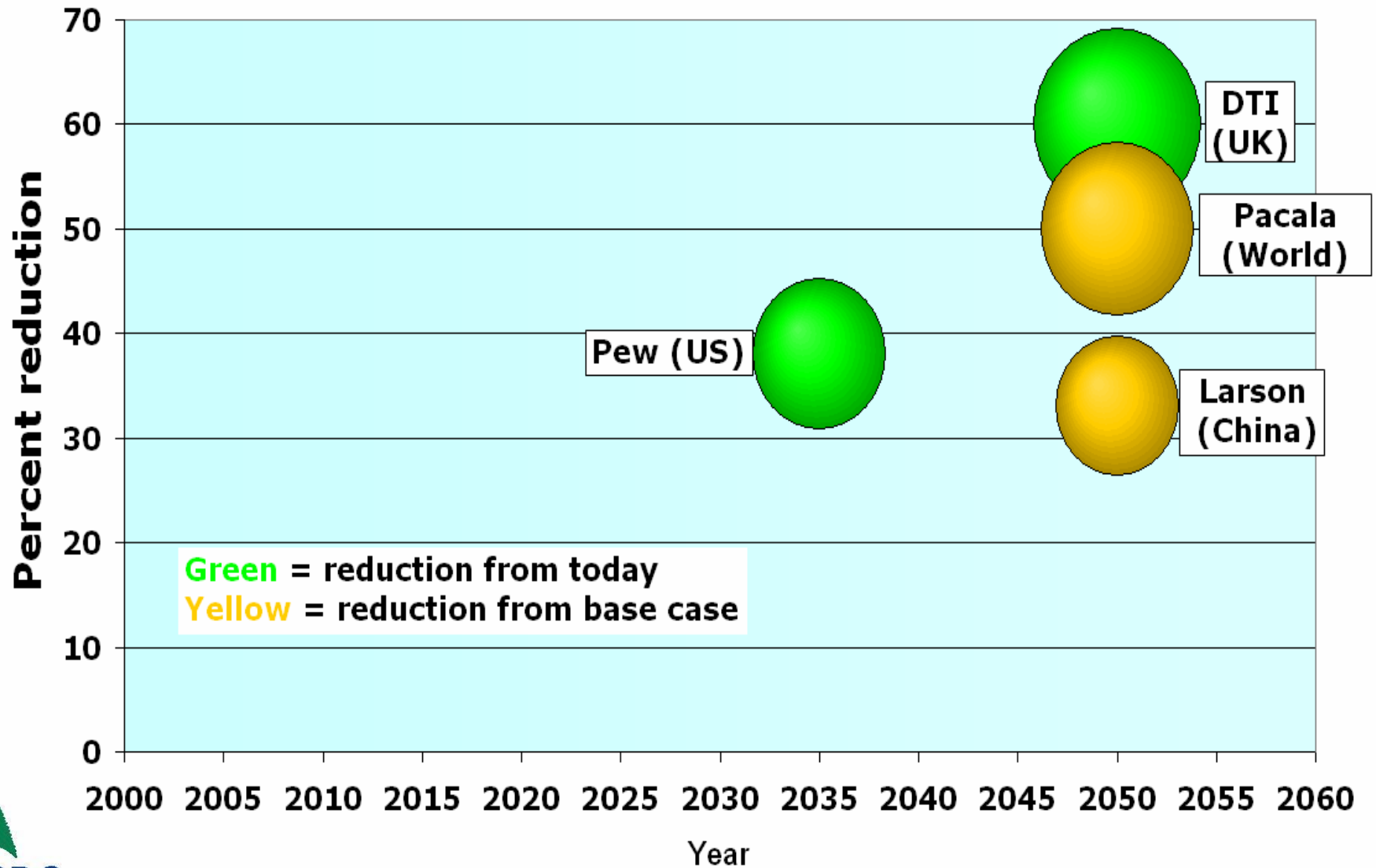
74% of global total

Top six = 66%

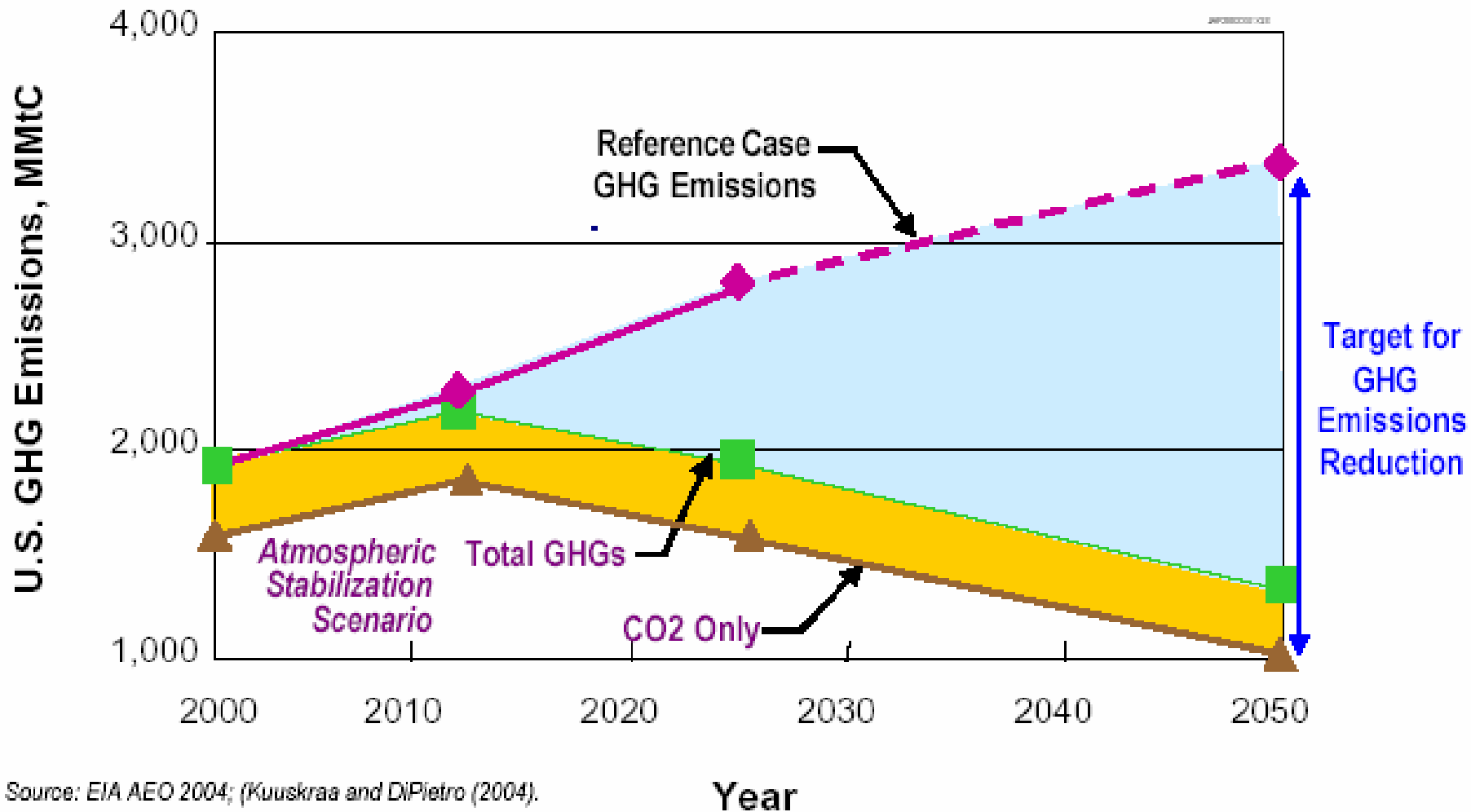


Cumulative CO2 Emissions 2000-2025, EIA, IEA 2002

Recent CO2 Reduction Studies



REFERENCE CASE AND ATMOSPHERIC STABILIZATION, U.S. GHG EMISSIONS



Source: EIA AEO 2004; (Kuuskraa and DiPietro (2004).



The Path Forward

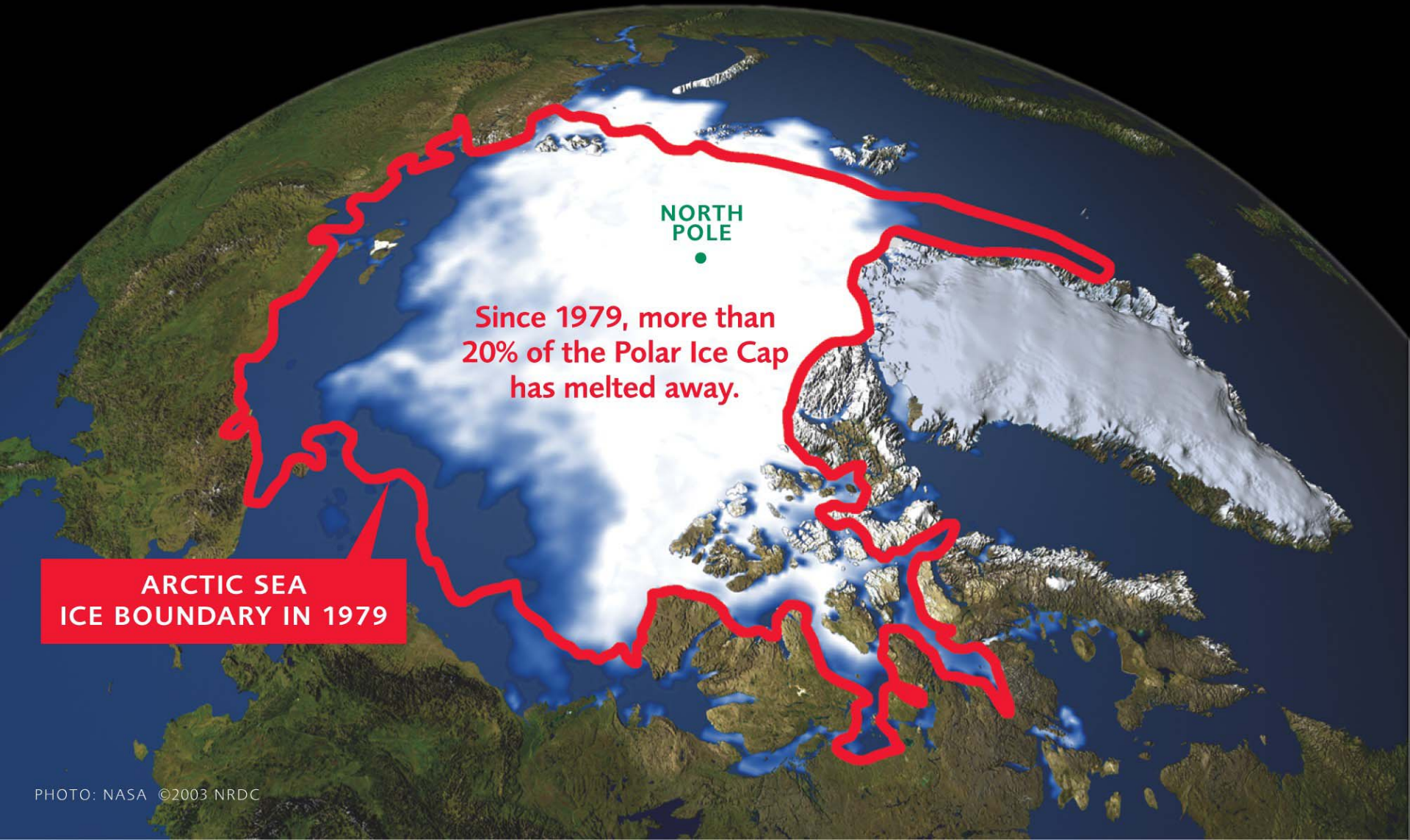
- Integrate CCS with serious action plans to cut emissions.
- Promote efficiency and renewables more strongly.
- Build confidence in CCS as a means of permanent isolation of CO₂.

Building Confidence in CCS

- Adopt strong design and operating requirements through a public, transparent process.
- Assure public involvement in site selection decisions.
- Assure adequate, long-term monitoring, measurement and verification.

Carbon Sequestration Leadership Forum

Warming won't wait. Will we?



Since 1979, more than
20% of the Polar Ice Cap
has melted away.

ARCTIC SEA
ICE BOUNDARY IN 1979