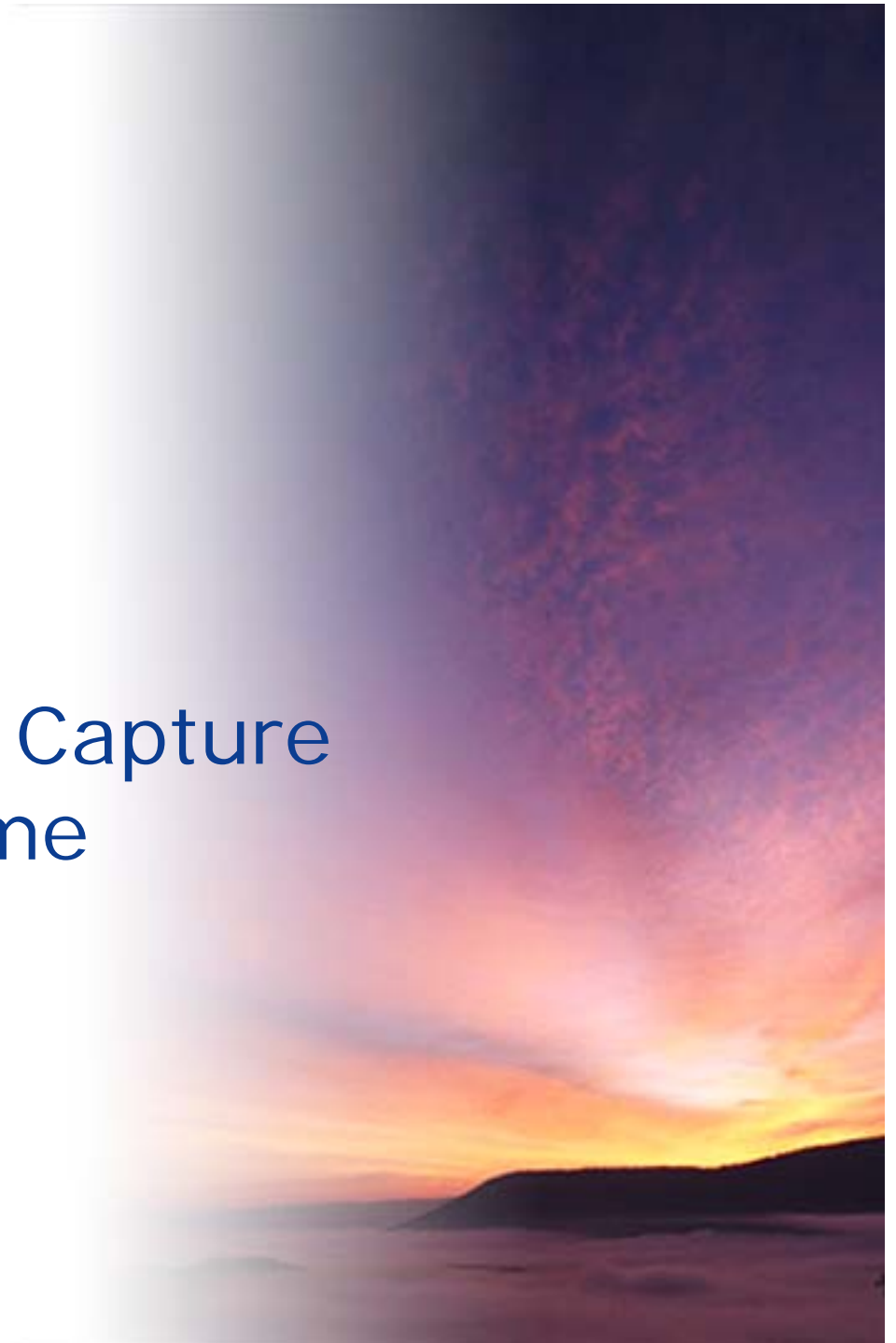




Deploying Carbon Capture and Storage in Time

Daniel A. Lashof

August 2006



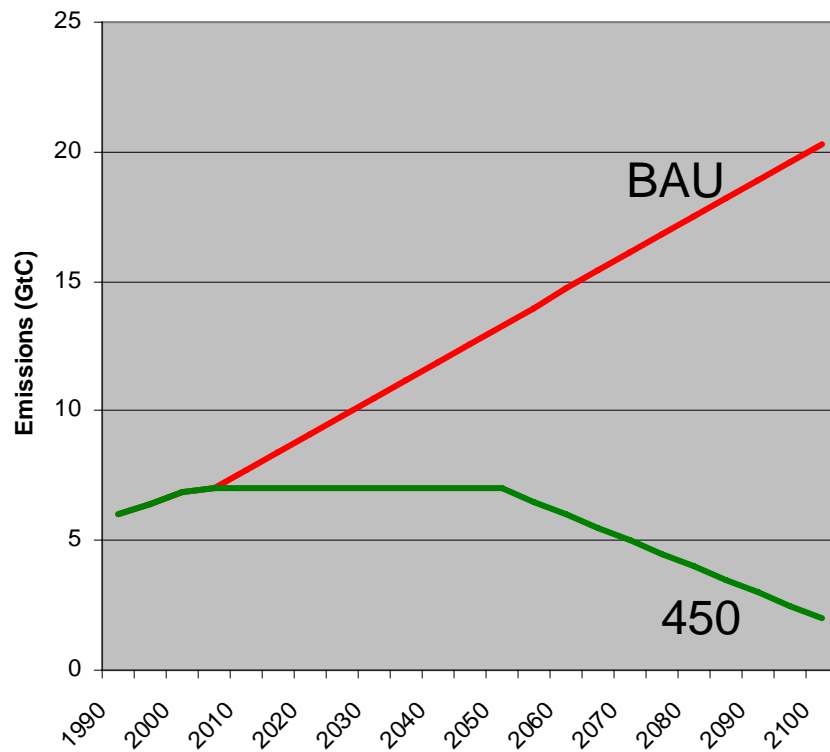
Warming won't wait



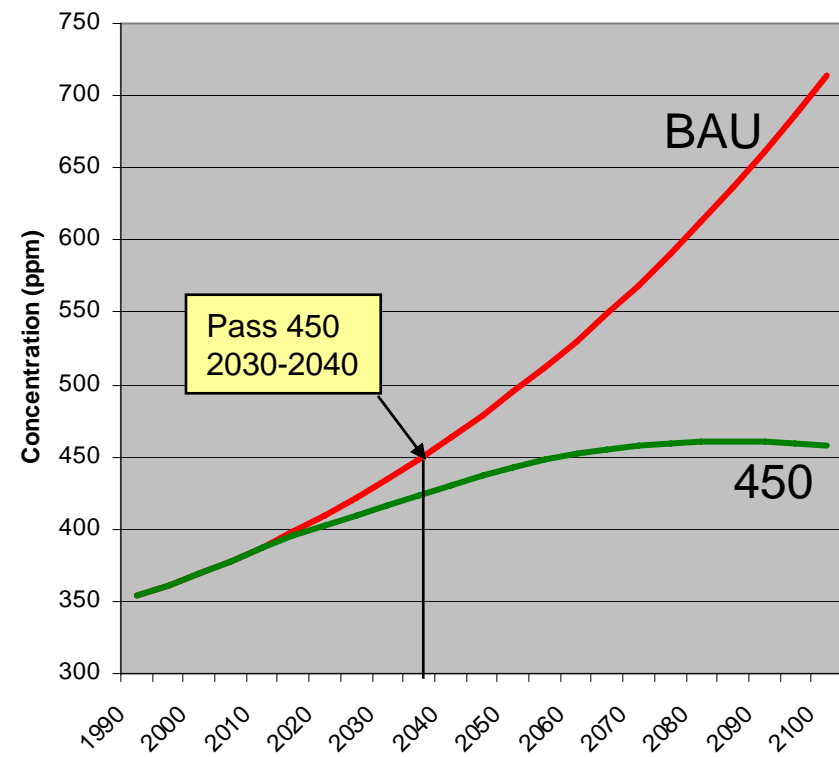
PHOTO NASA © NRDC 2005

Bending the Curve— Global emissions

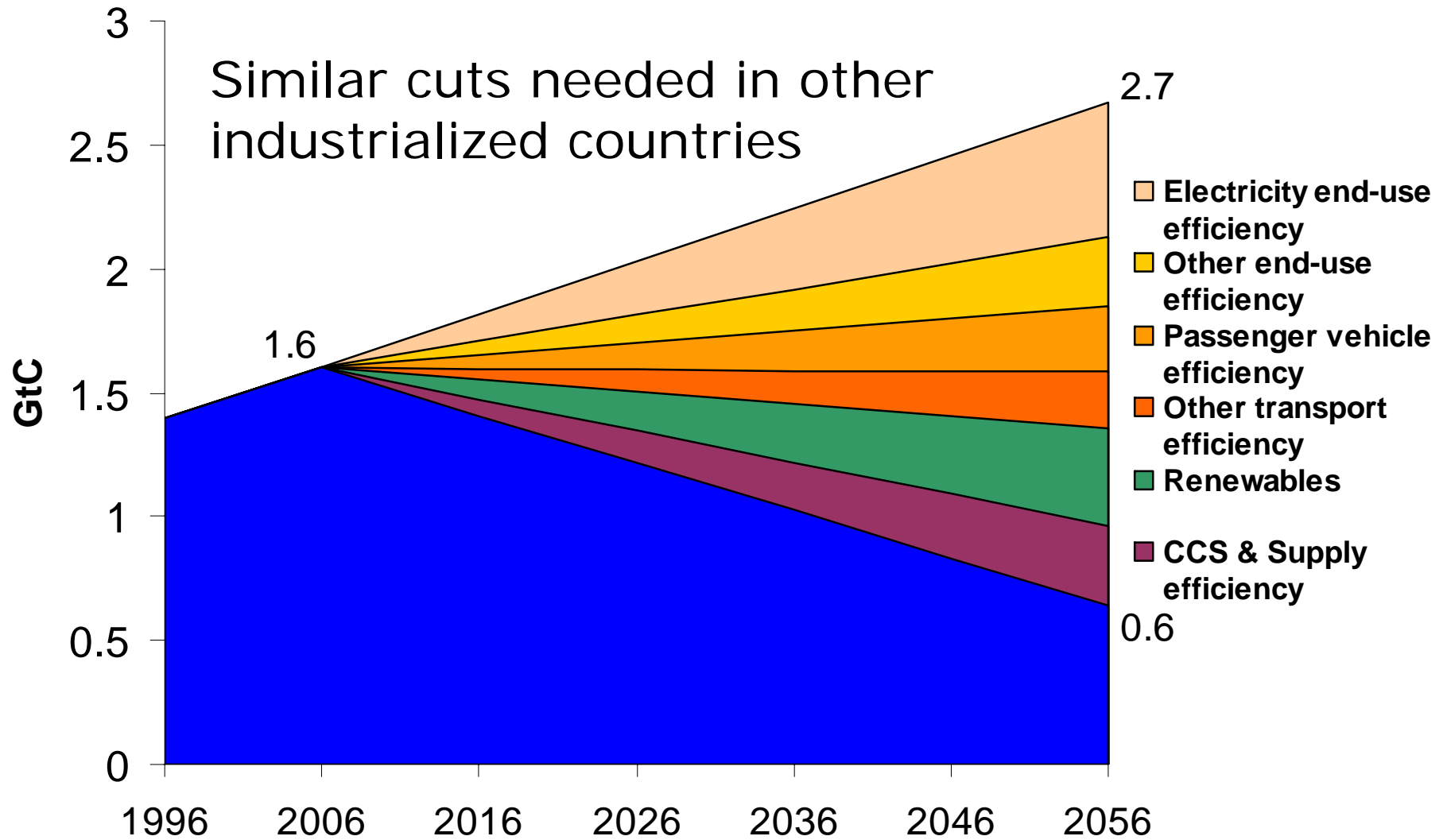
Carbon Emissions



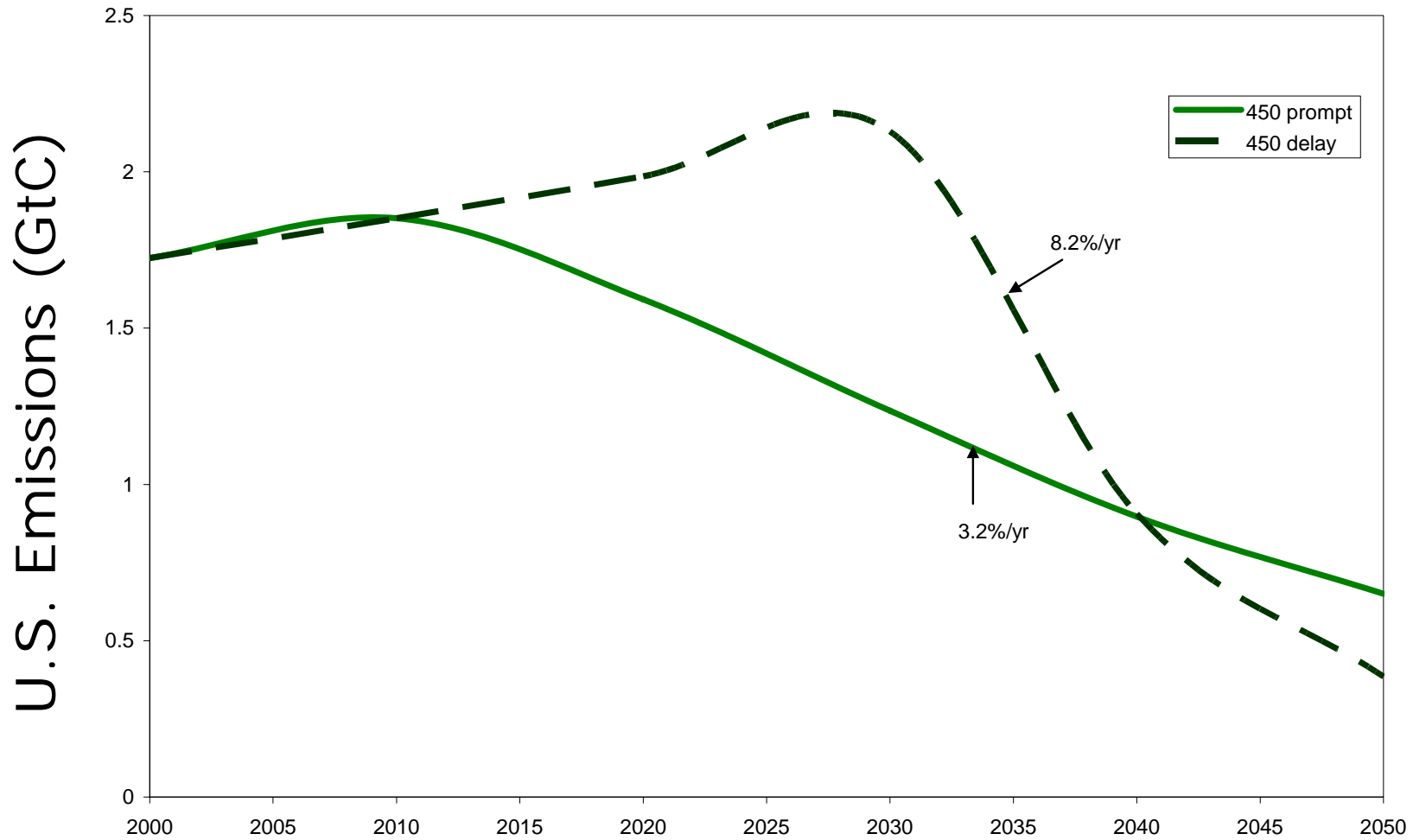
CO₂ Concentration



U.S. reduction portfolio



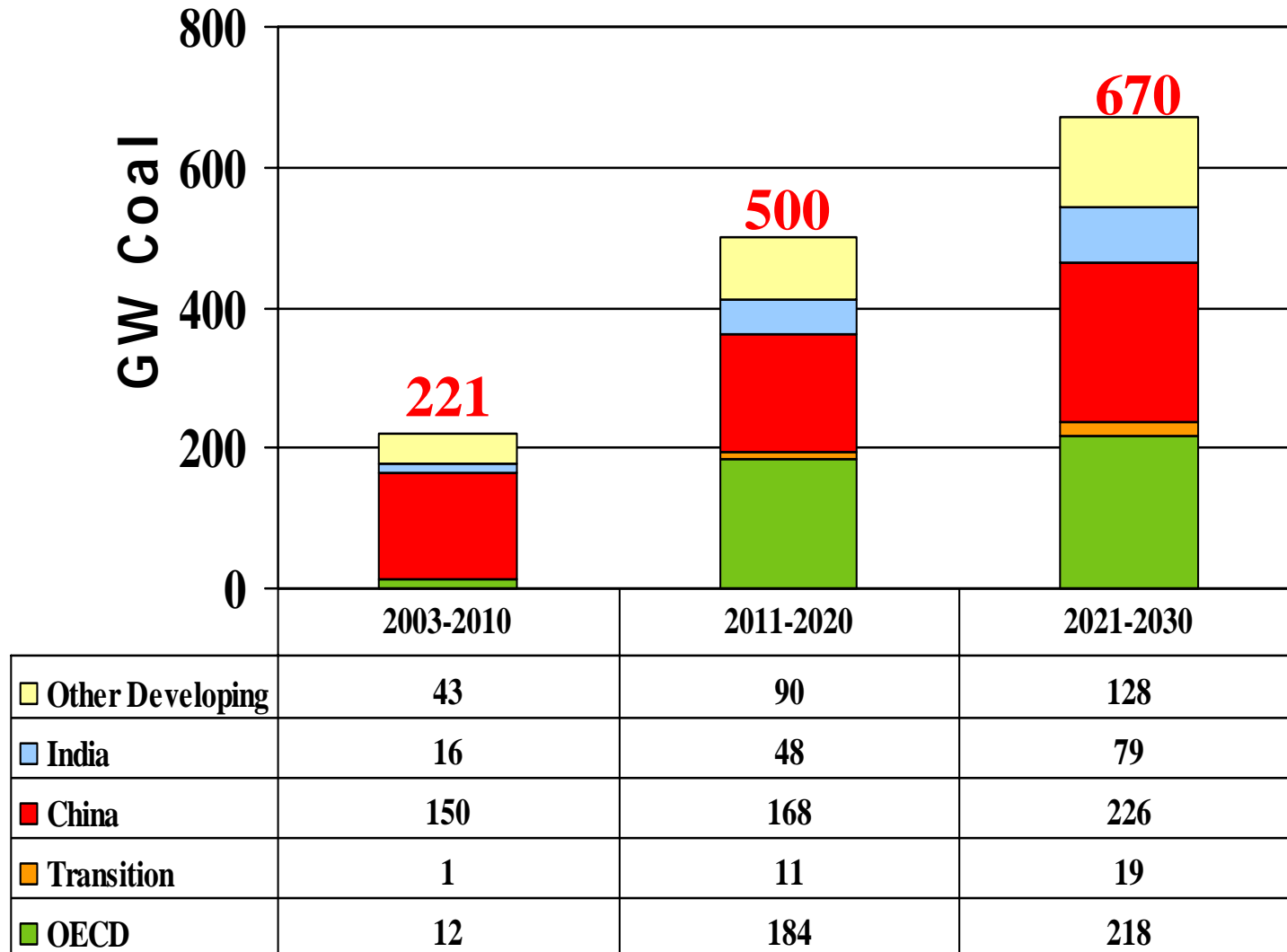
Slow start, crash finish



Hitting the wall



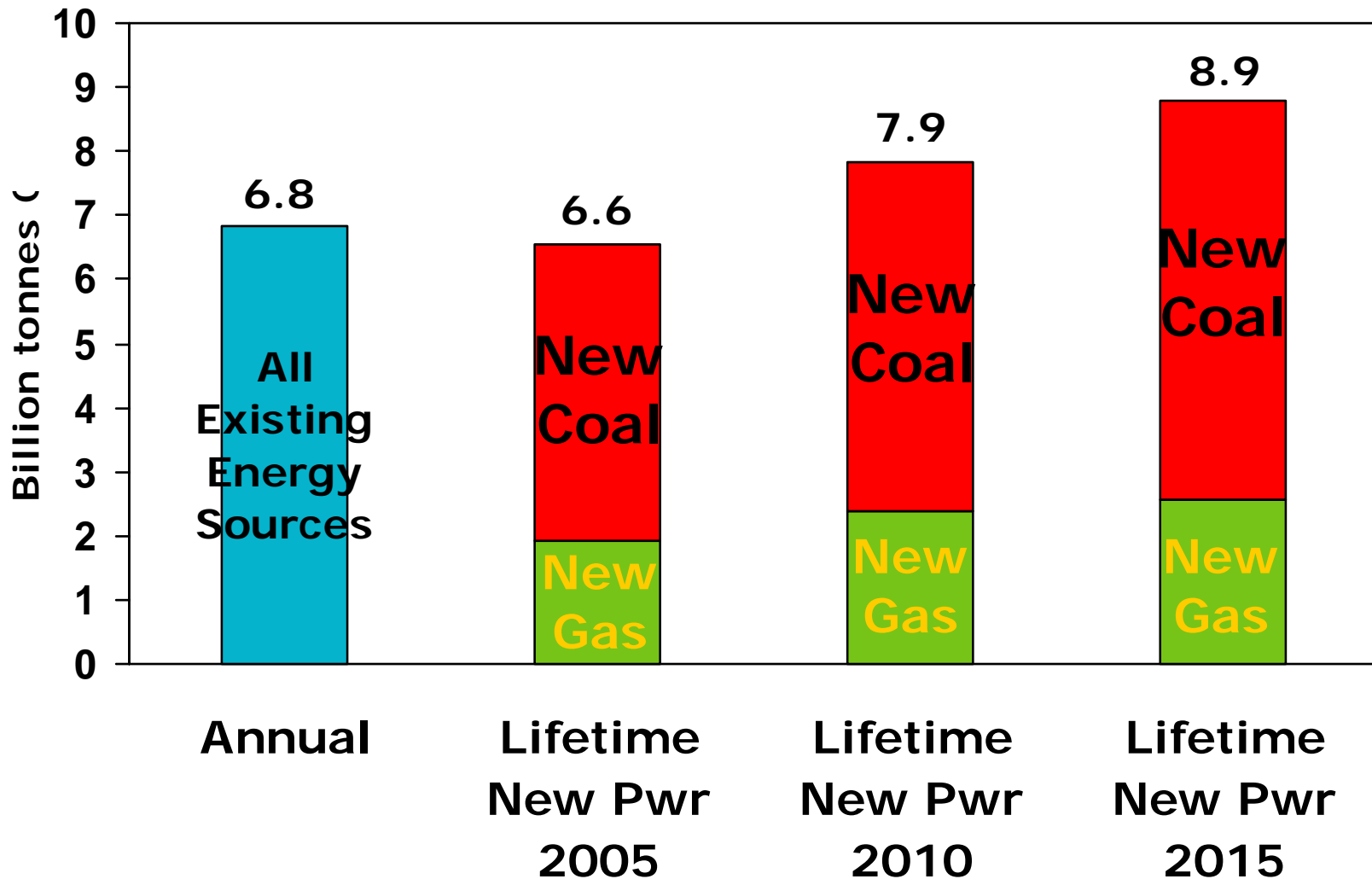
New coal build by decade



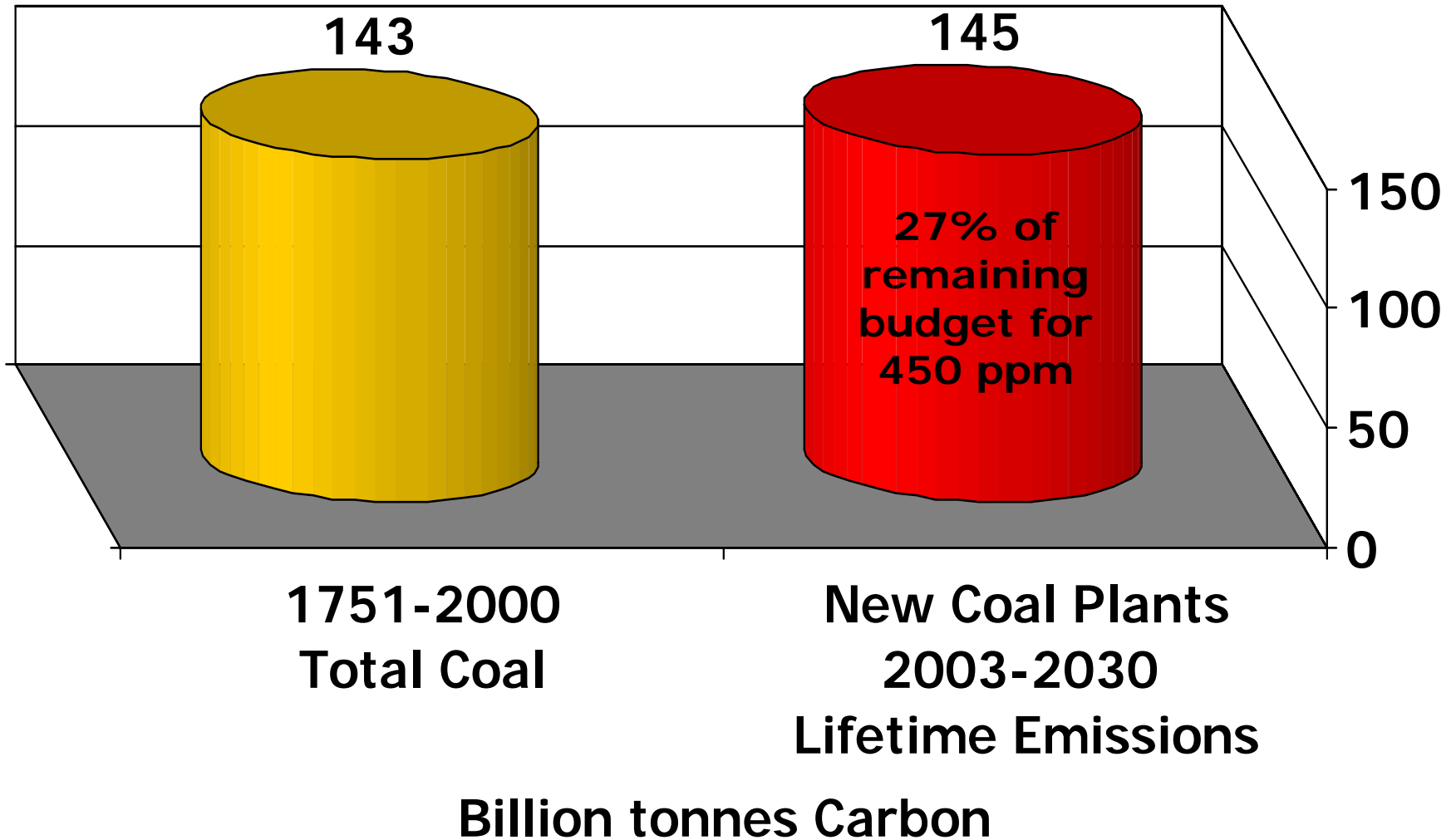
Incremental new coal capacity by decade

Annual carbon commitment

Lifetime Emissions of Annual New Fossil Investment

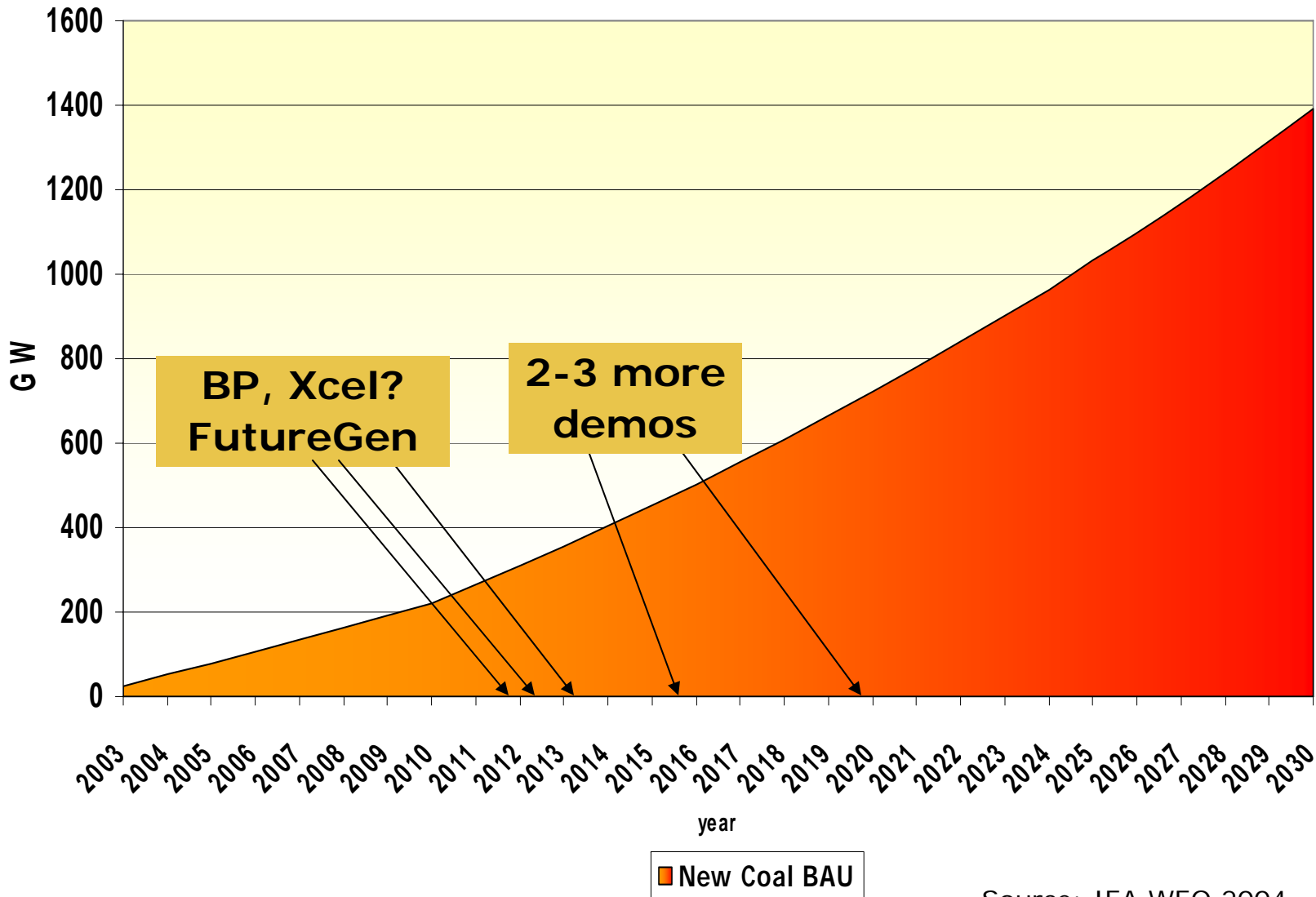


New coal plant emissions equal all historic coal CO₂

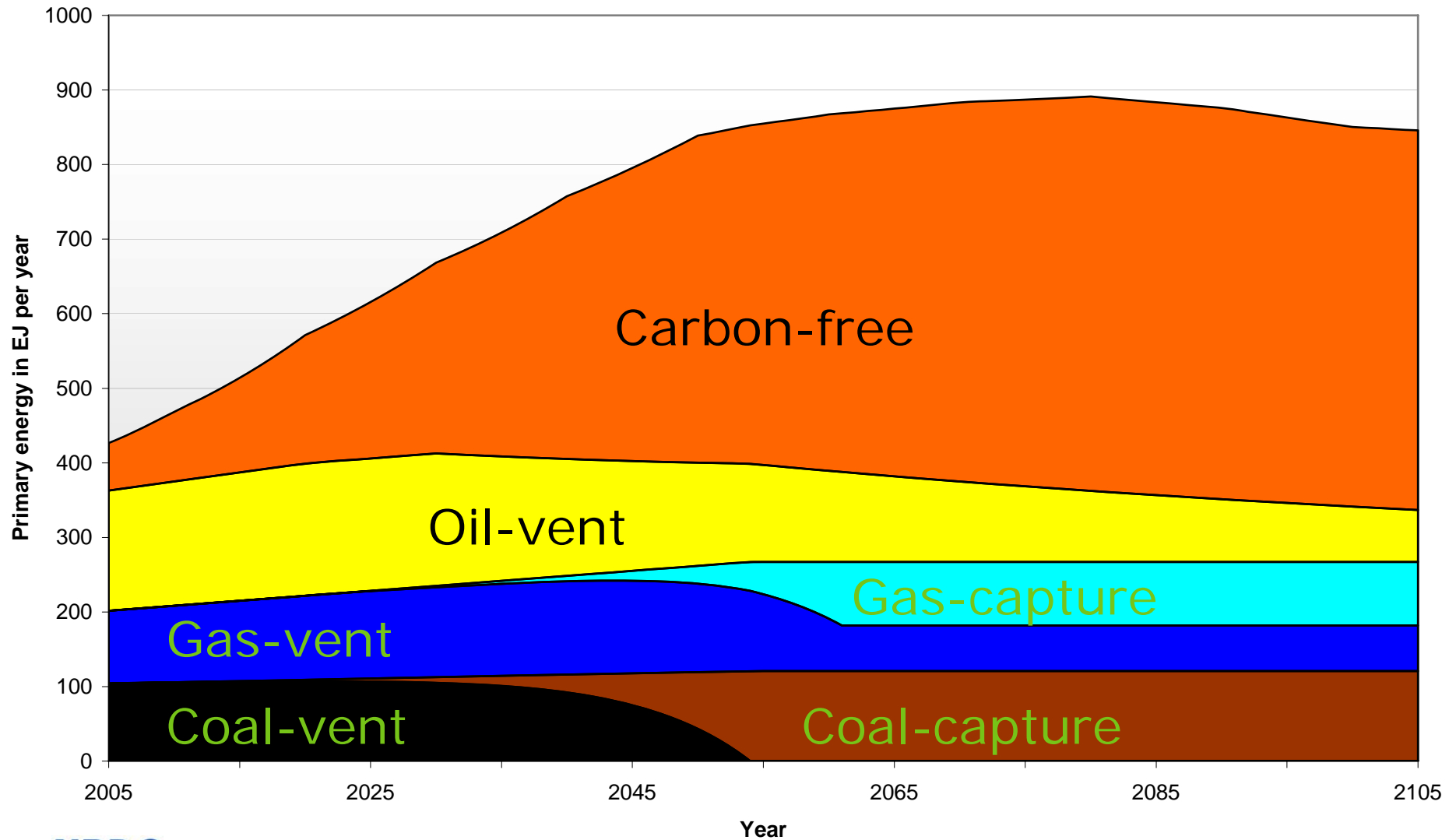


BaU means carbon lock in

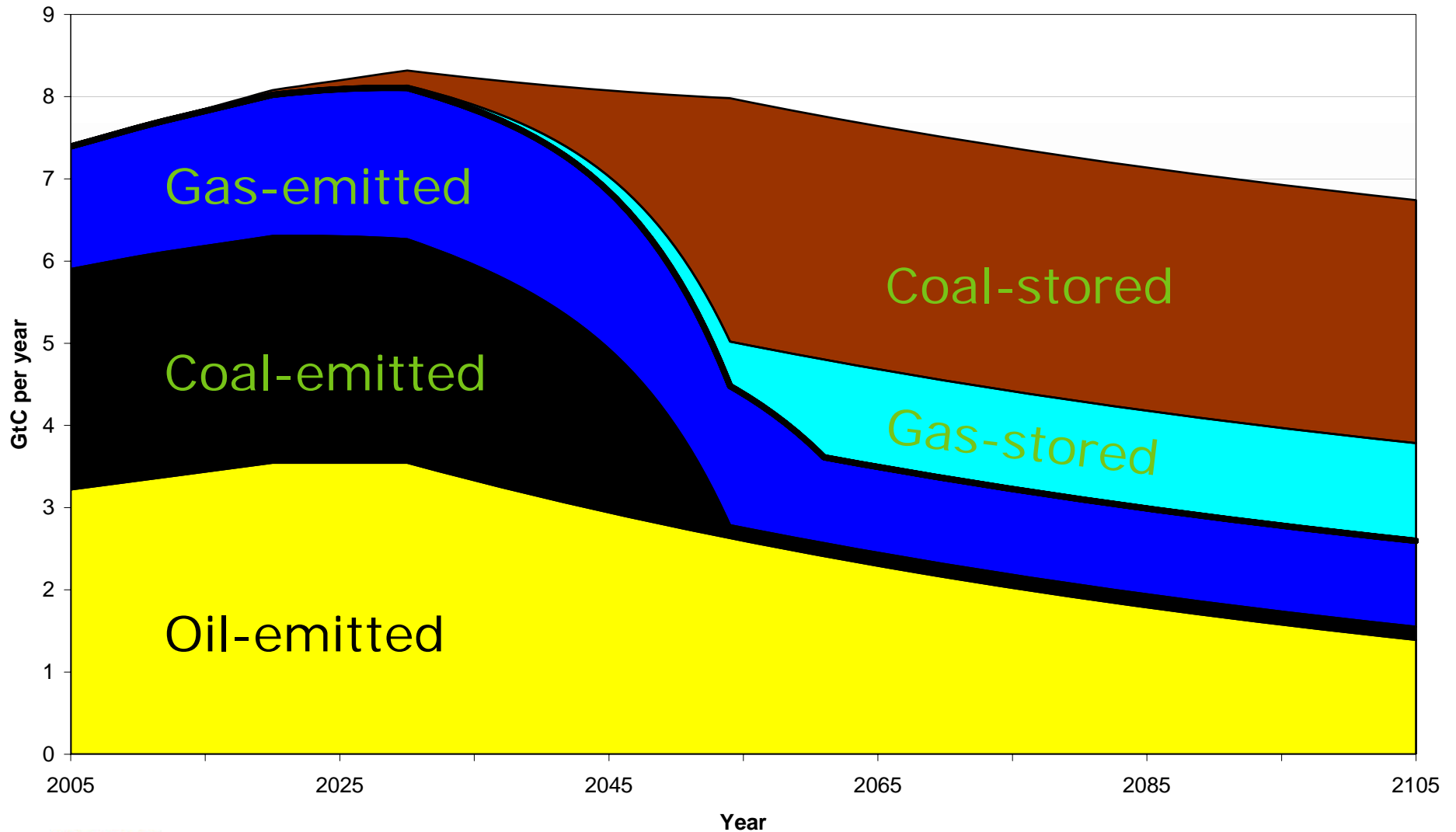
IEA New Coal Forecast



Global stabilization energy mix



Stabilization carbon balance



Getting started

Cap and reduce emissions

Low-carbon generation obligation

Fund CCS incremental cost in developing countries

Renewable fuels

Efficiency Standards

Take home

Delay makes everything harder

Current CCS pace much too slow

CCS important but can't do it all

Starting now with comprehensive package
makes deep cuts feasible