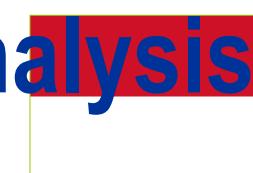




Opening Remarks

Prof. Dr. Nebojsa Nakicenovic
Deputy Director

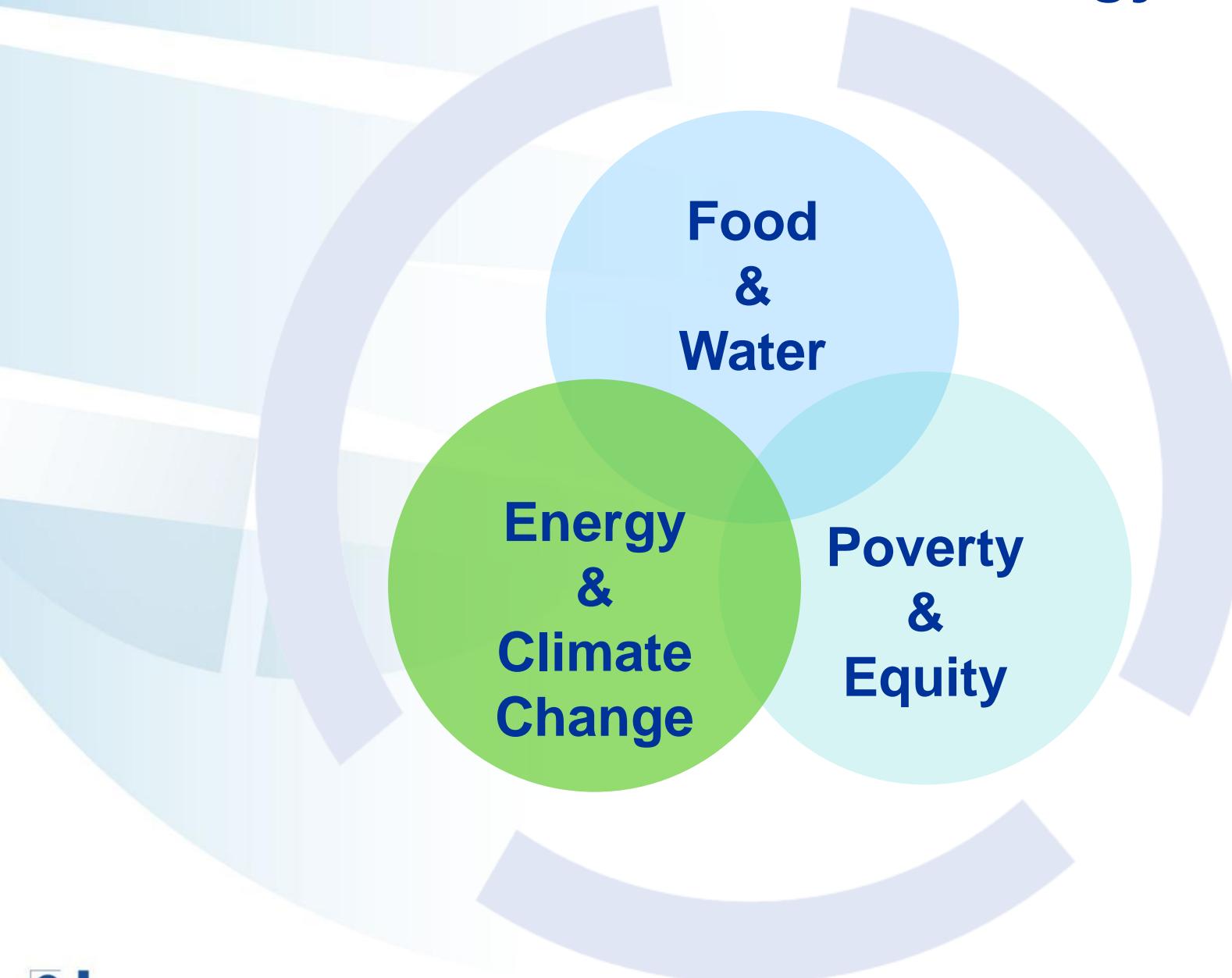
National Mathematical Organizations



- International, independent, interdisciplinary
- Research on major global problems
- Solution oriented, integrated systems analysis



IIASA Research Strategy



IIASA Research Strategy

The diagram consists of three overlapping circles. The top circle is blue and contains the text "Food & Water". The bottom-left circle is green and contains the text "Energy & Climate Change". The bottom-right circle is light blue and contains the text "Poverty & Equity". The overlapping areas between the circles represent the intersections of these research domains.

Food & Water

Energy & Climate Change

Poverty & Equity

IIASA Research Strategy

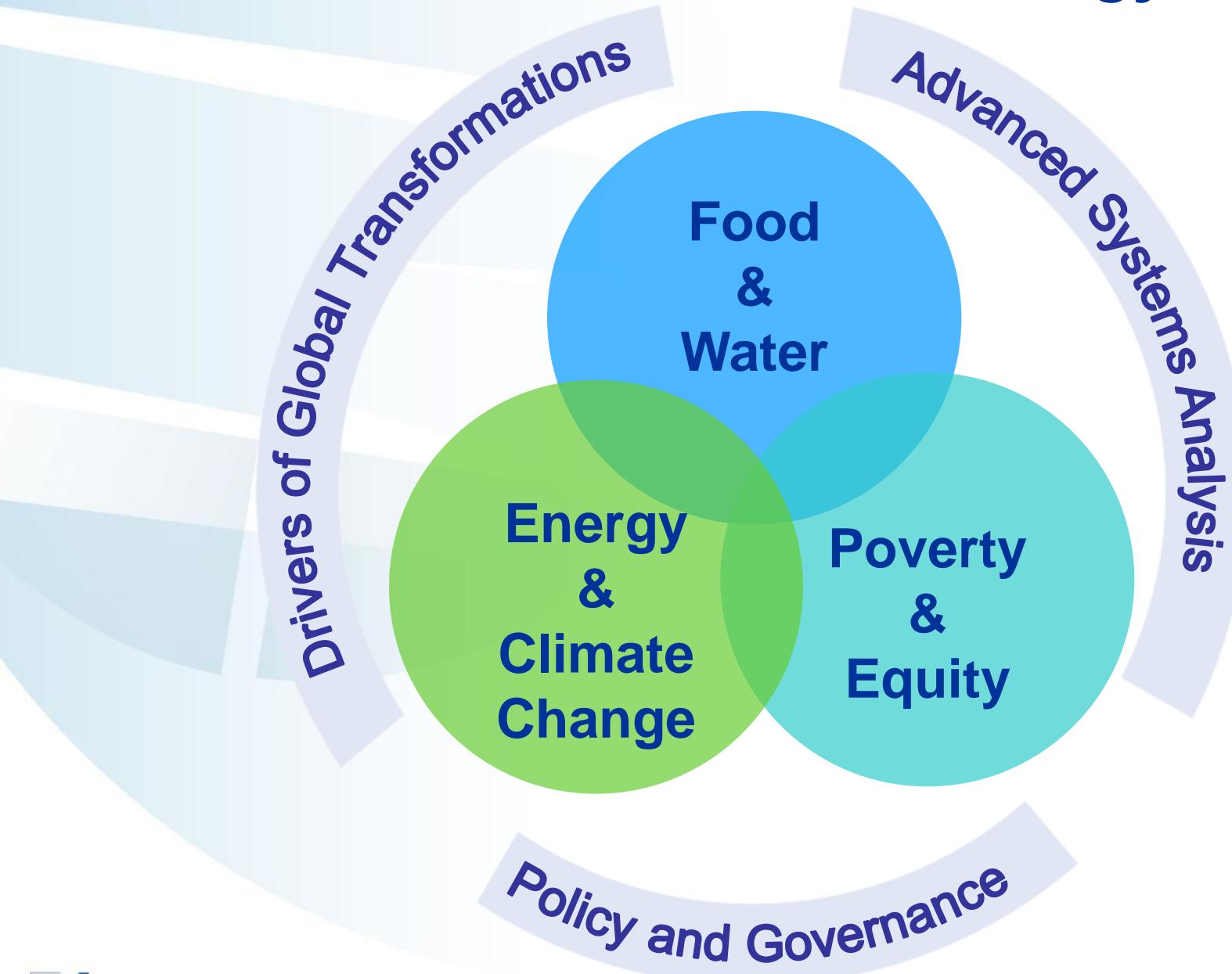
The diagram consists of three overlapping circles. The top circle is light blue and labeled "Food & Water". The bottom-left circle is light green and labeled "Energy & Climate Change". The bottom-right circle is light cyan and labeled "Poverty & Equity". The overlapping areas between all three circles are shaded in a darker shade of their respective colors.

**Food
&
Water**

**Energy
&
Climate
Change**

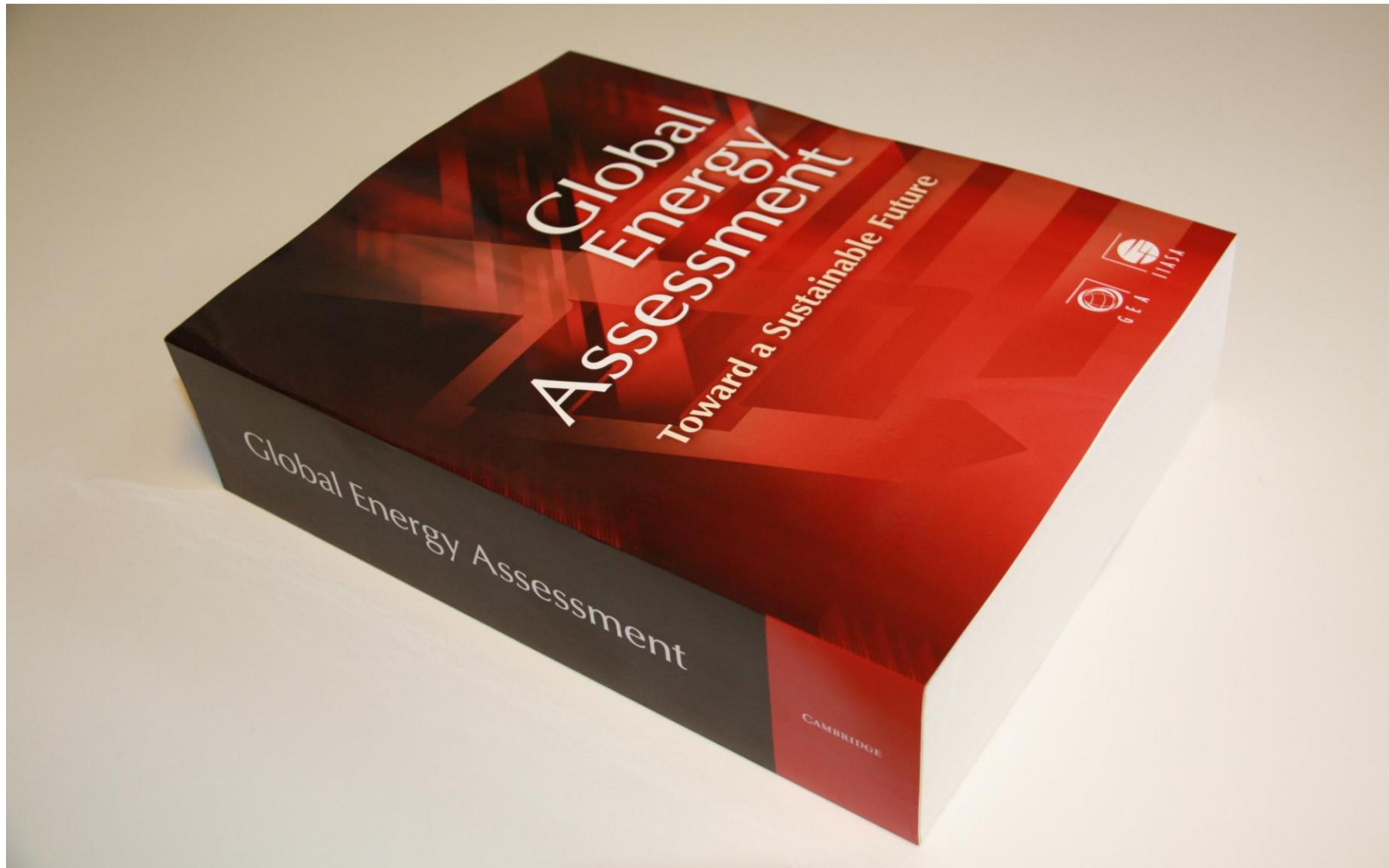
**Poverty
&
Equity**

IIASA Research Strategy



YOUNG SCIENTISTS SUMMER PROGRAM

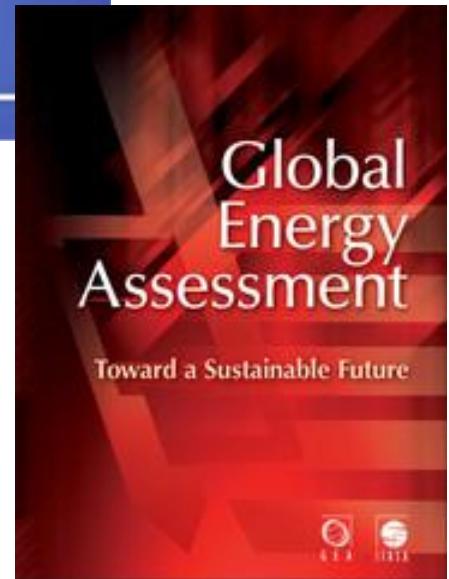






Global Energy Assessment Toward a Sustainable Future

Nebojsa Nakicenovic
Former Director
www.GlobalEnergyAssessment.org



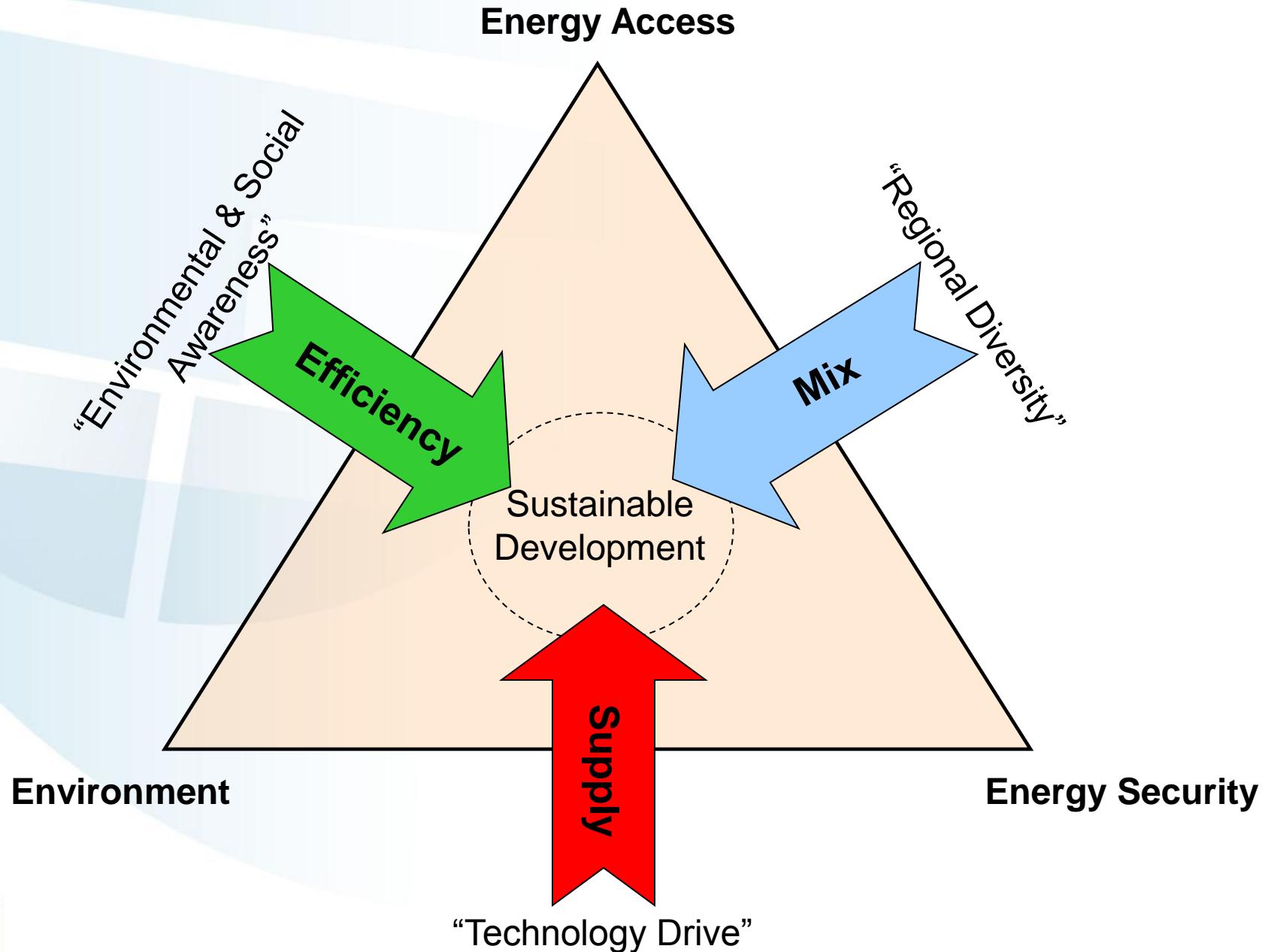
Kandeh Yumkella, DG UNIDO, referred to the GEA report as the “energy bible”.

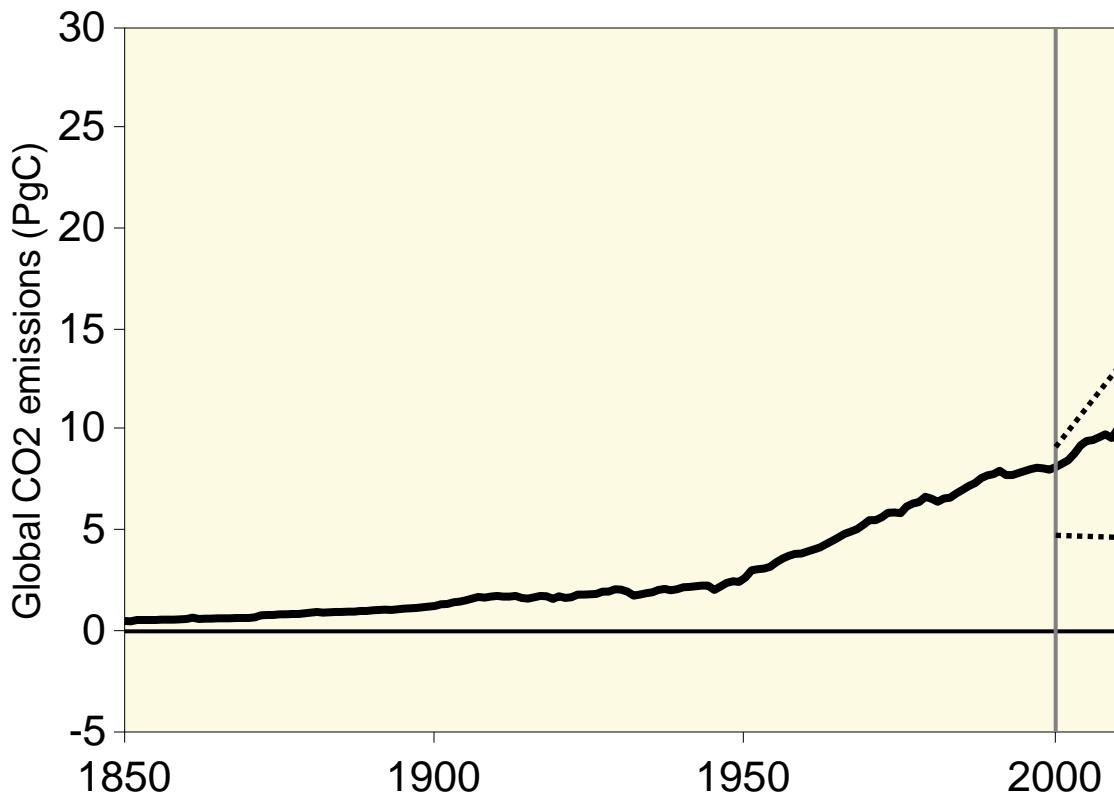


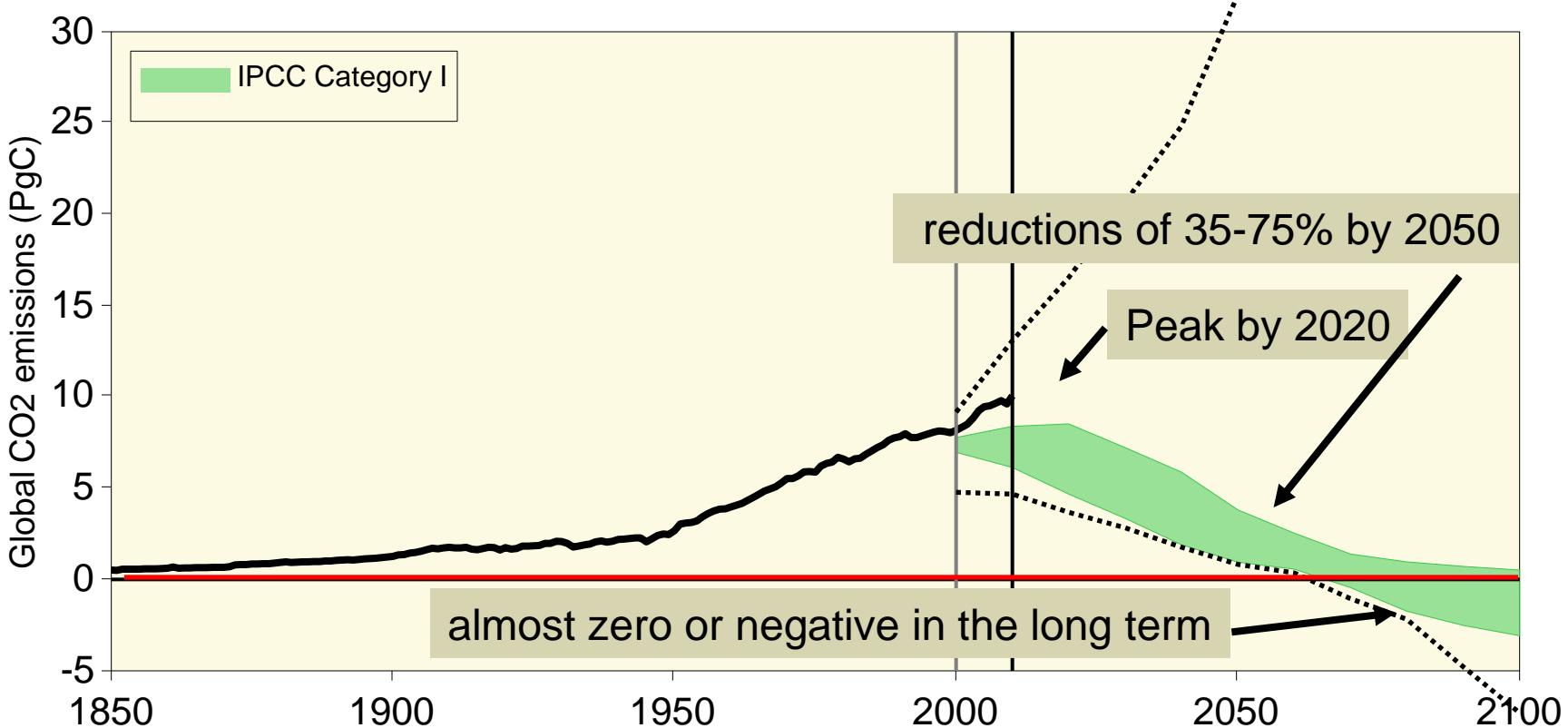
José Goldemberg, Yong Ha Kim, H.E. Nguyen Thien, L. Gomez-Echeverri, Pavel Kabat, Hasan Mahmud, Kuntoro Mangkusubroto
Nakicenovic    Wissenschaftliche Beirat der Bundesregierung
Globale Umweltveränderungen

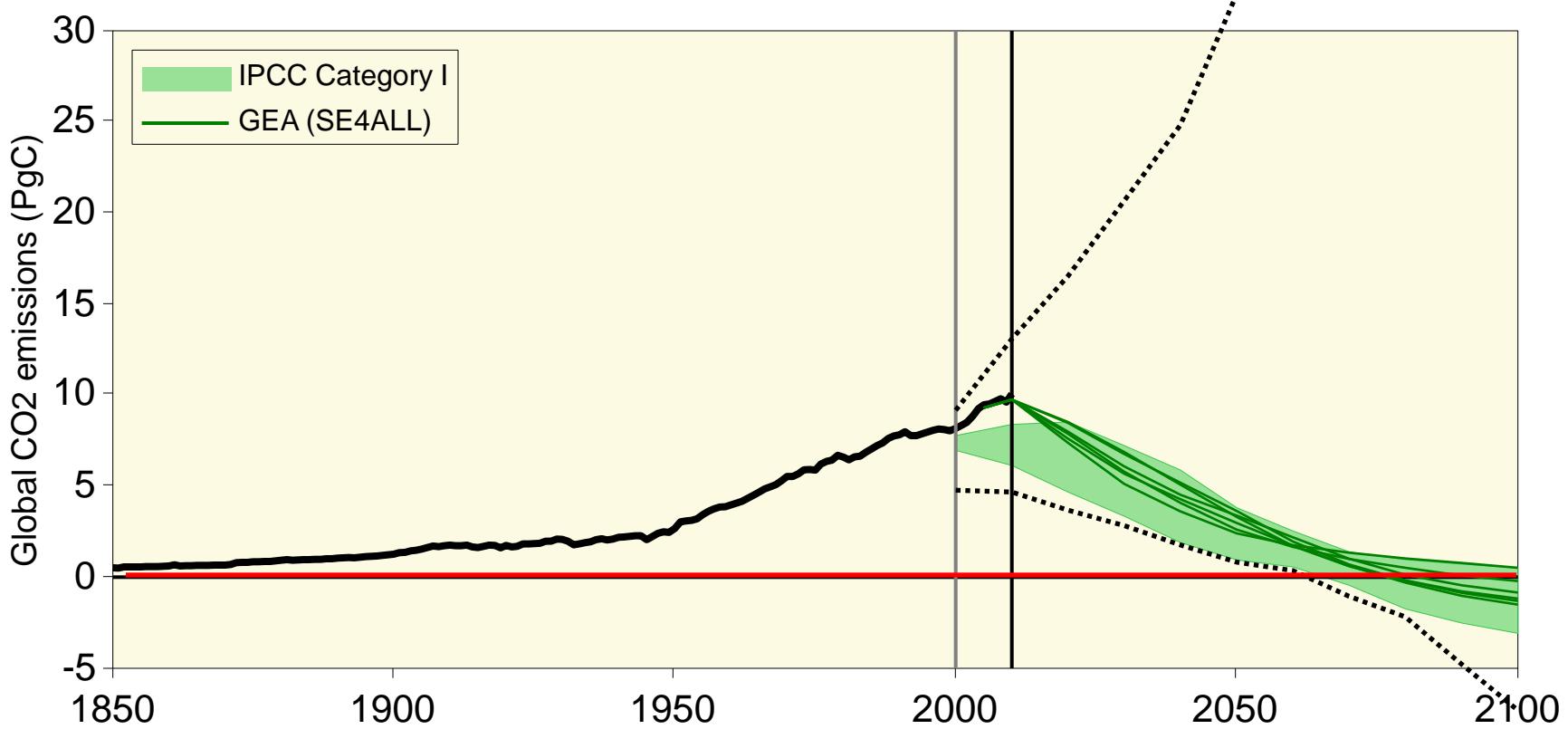
2013 #10

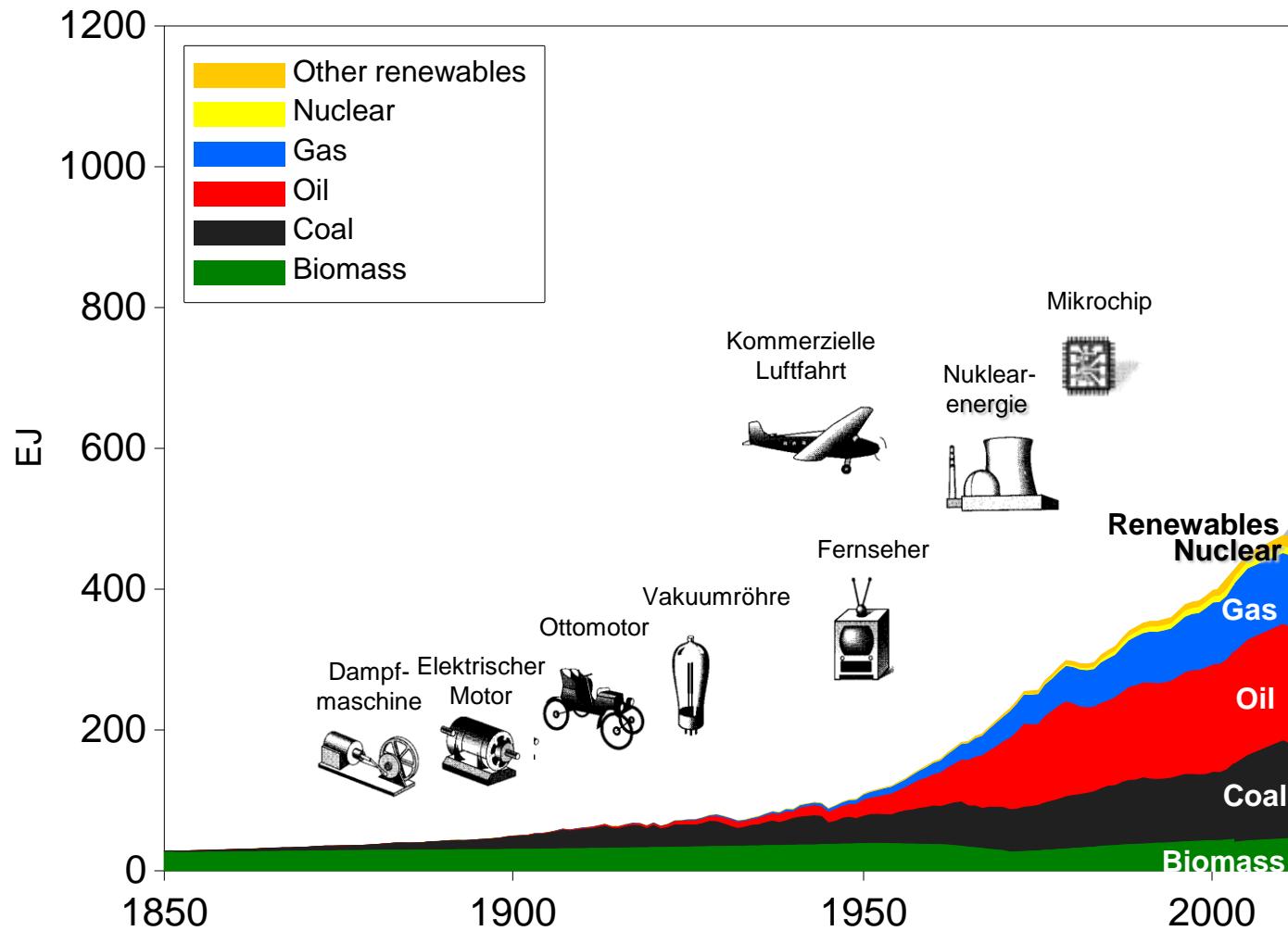
GEA Scenarios





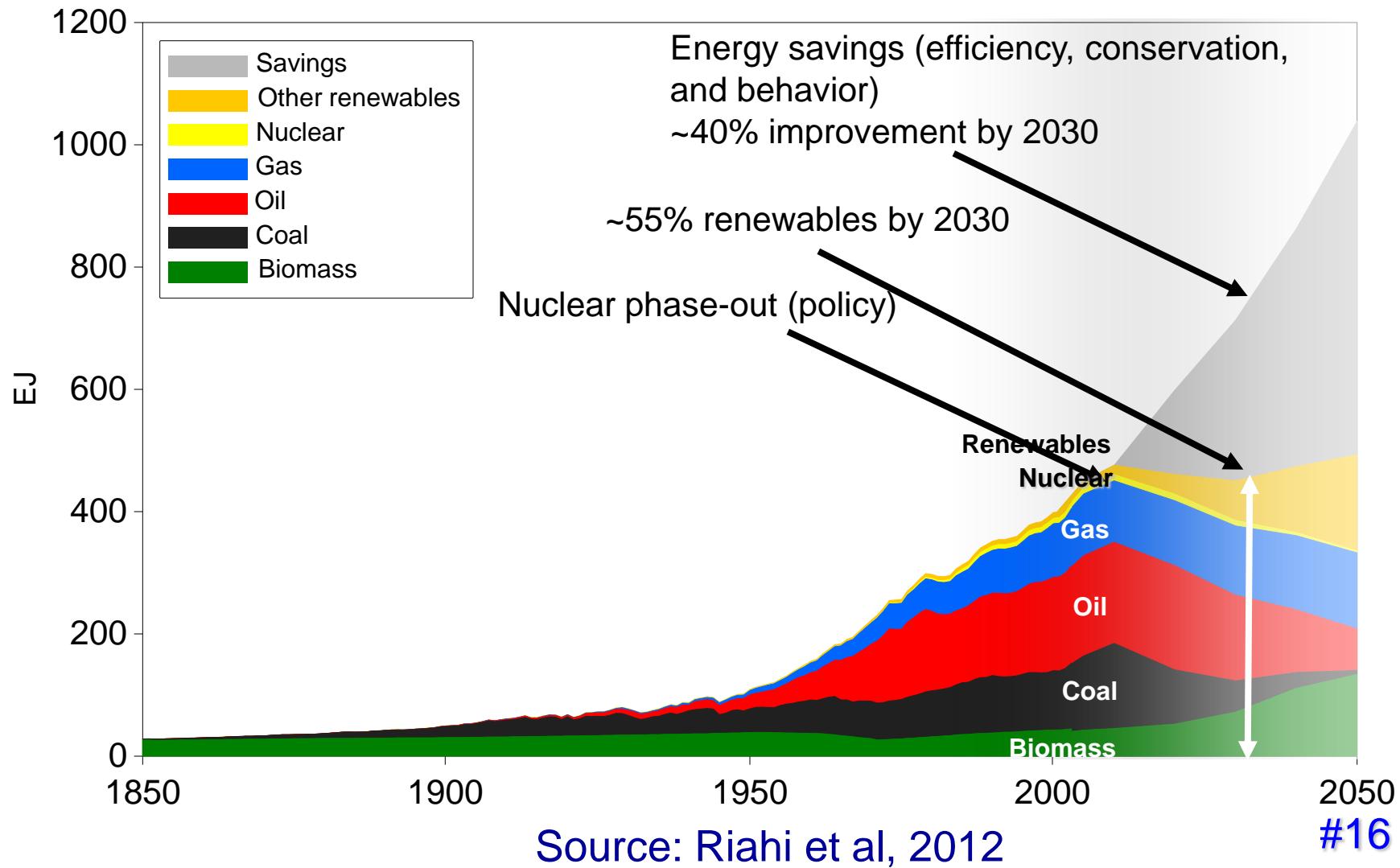




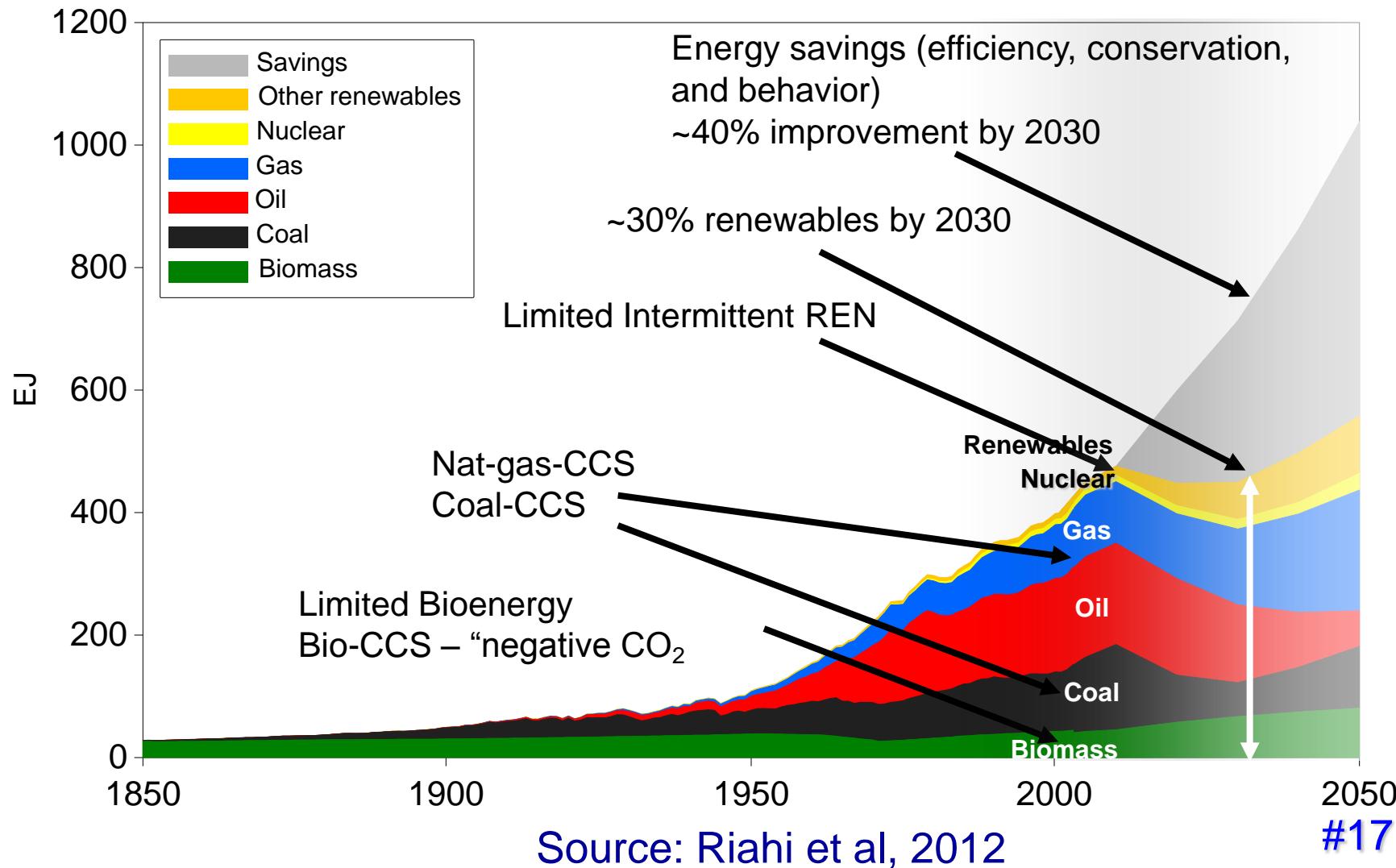


Global Primary Energy

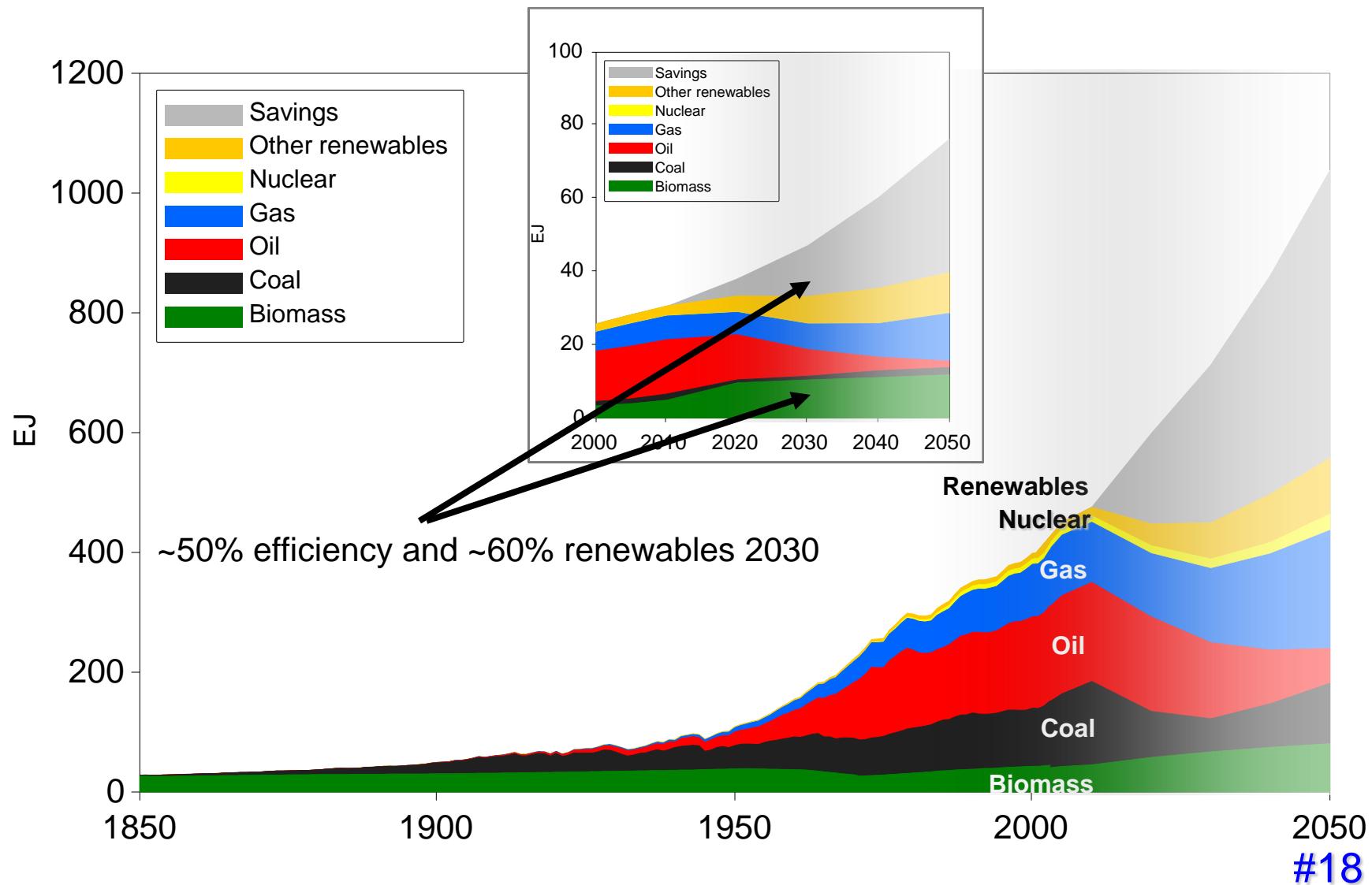
no CCS, no Nuclear



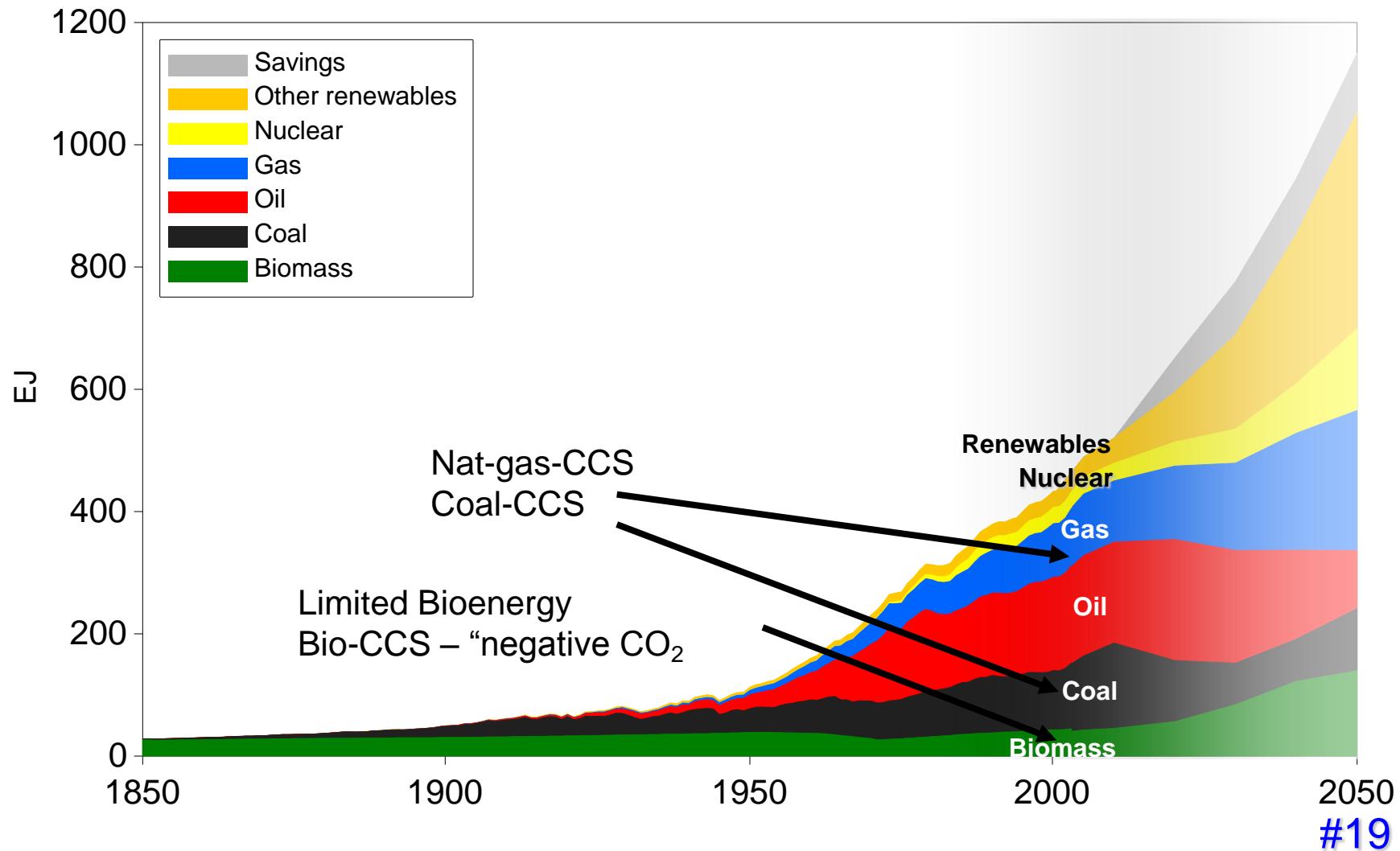
lim. Bioenergy, lim. Intermittent REN



Latin America

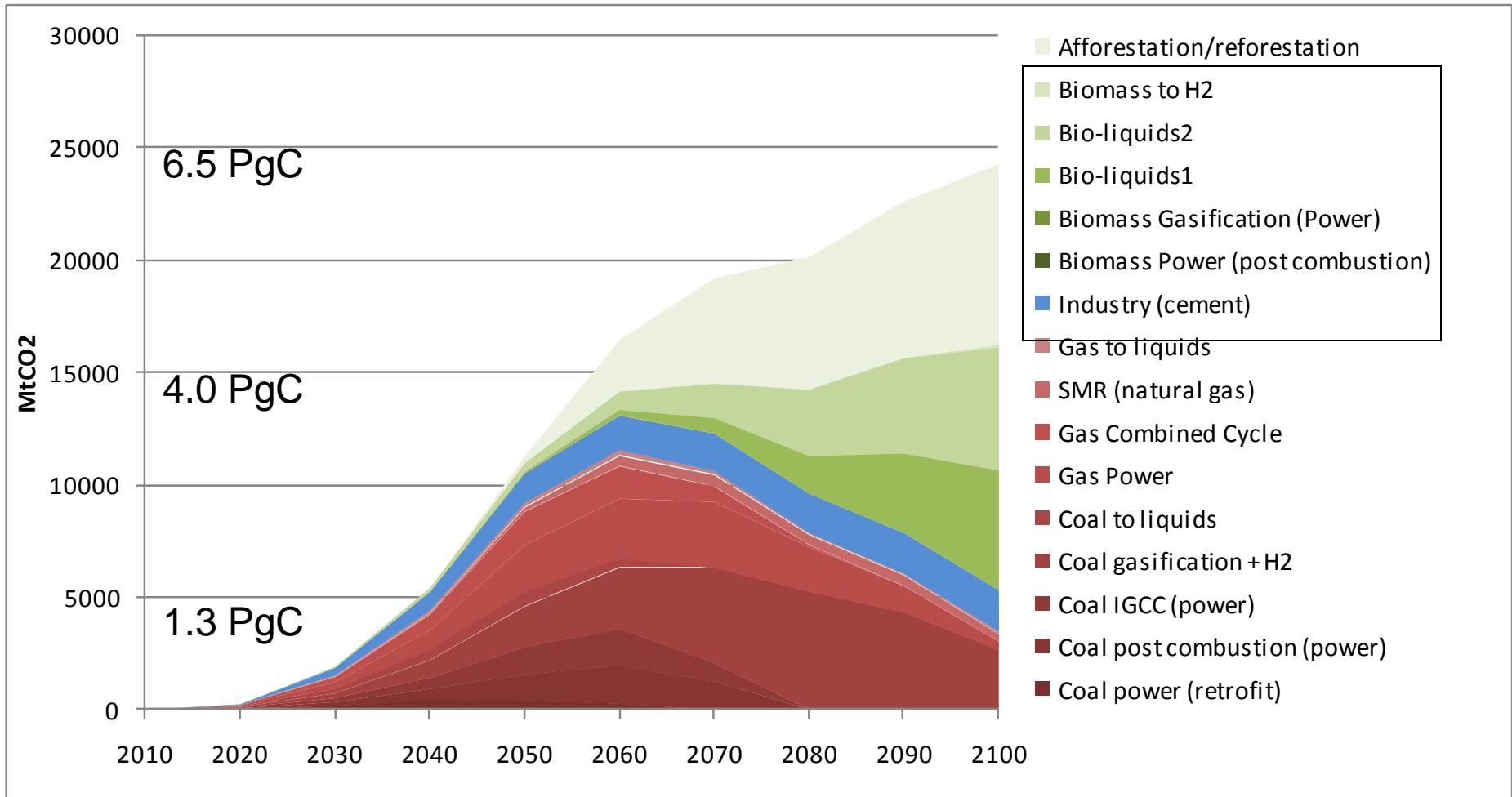


Global Primary Energy Supply

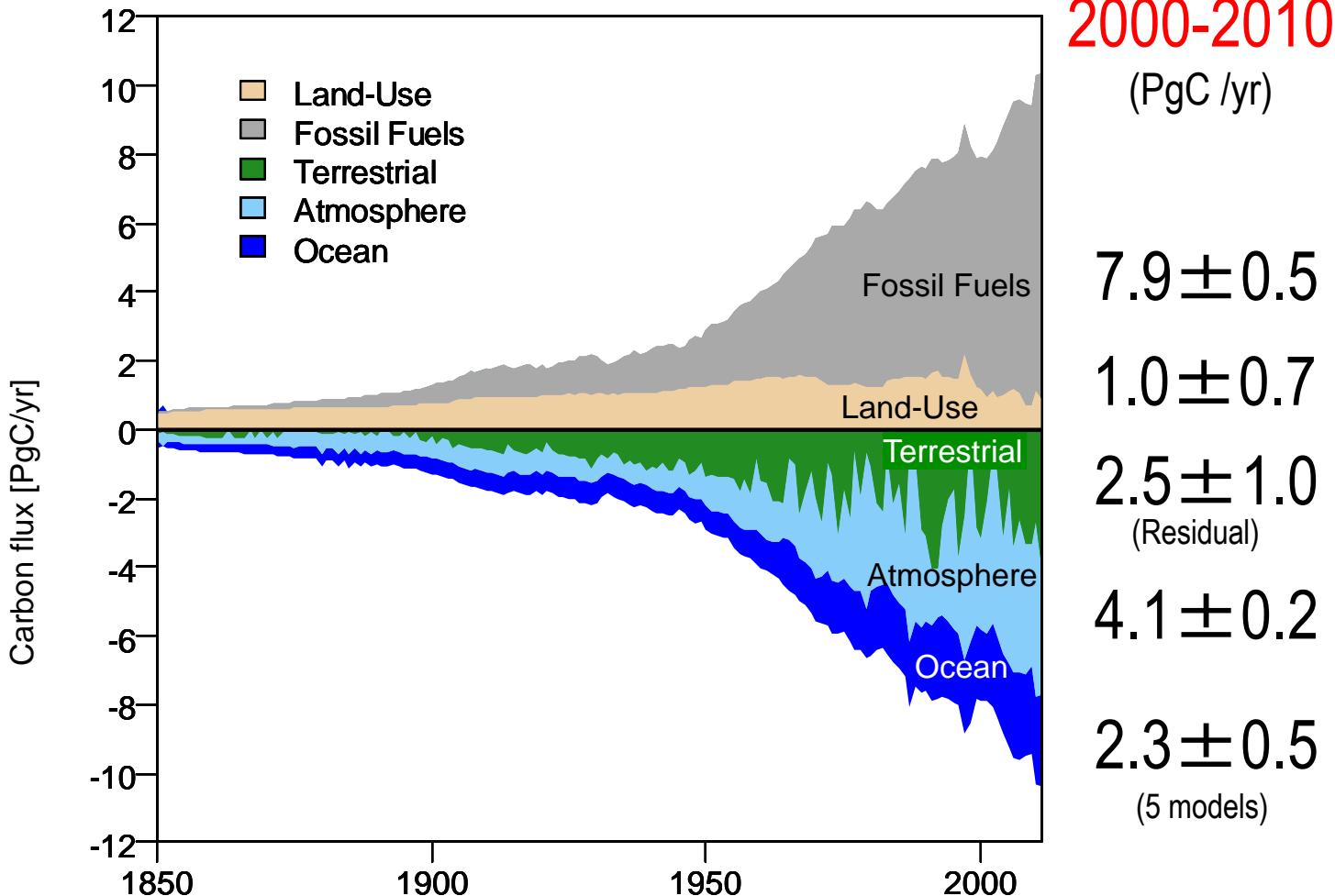


CO₂ Removal

Fossil CCS + Bio CSS + Forests

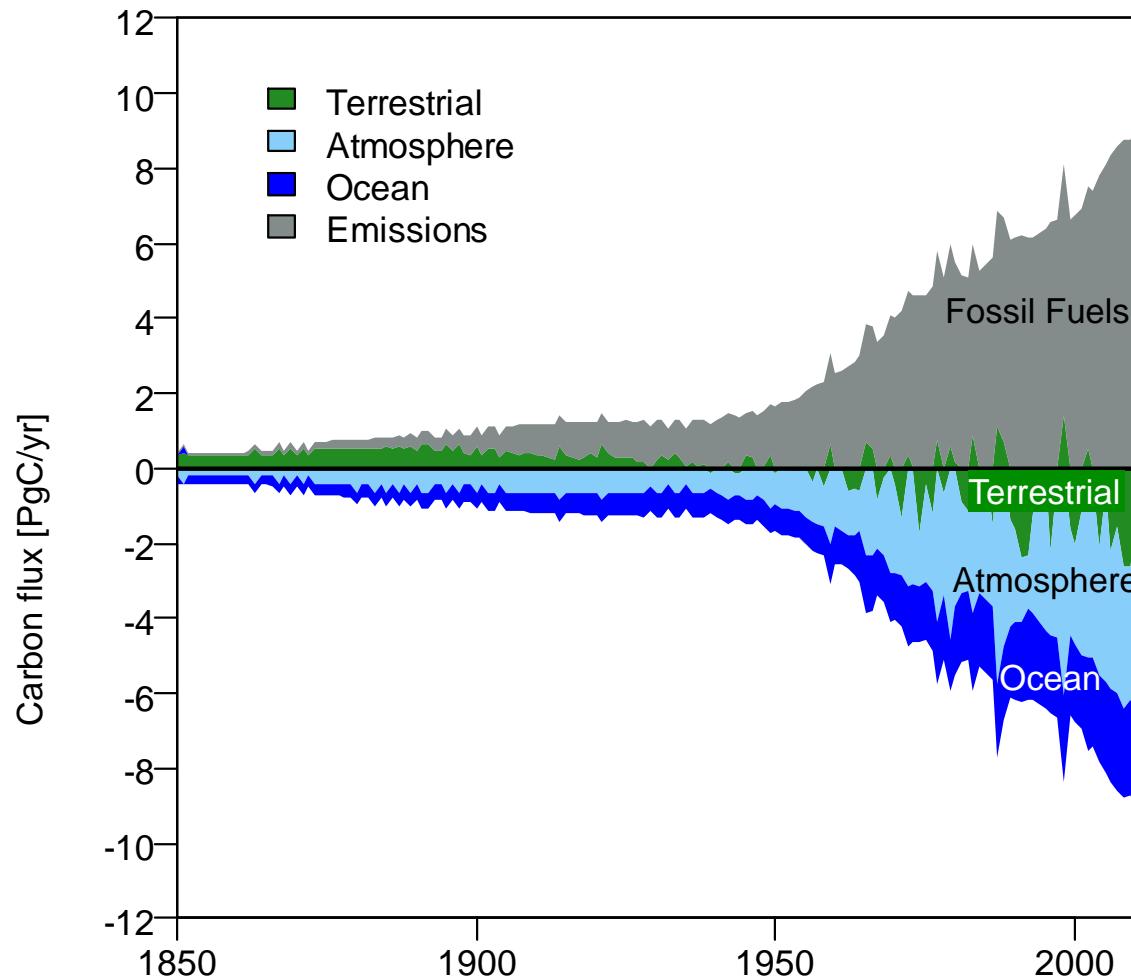


Human Perturbation of the Global Carbon Budget

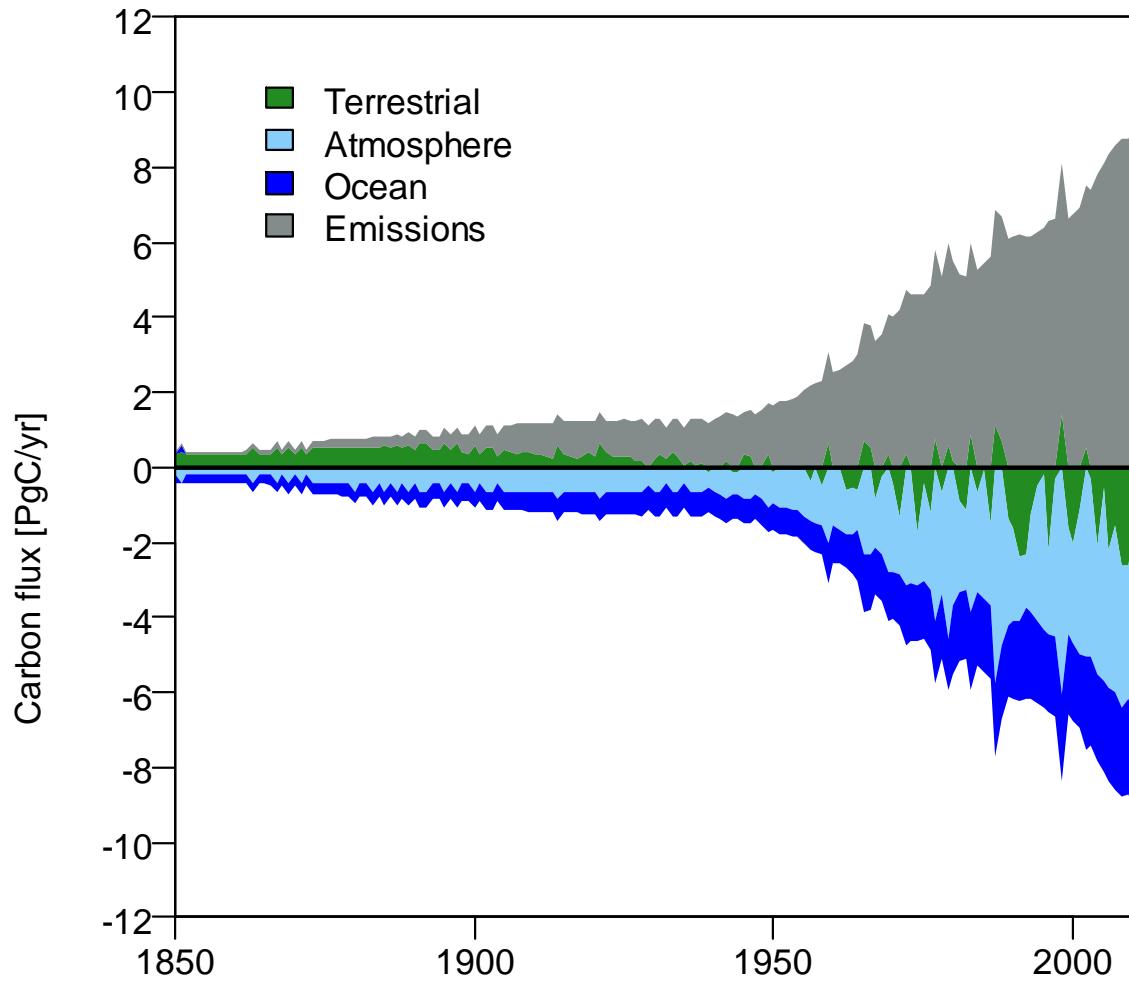


Historical Carbon Fluxes

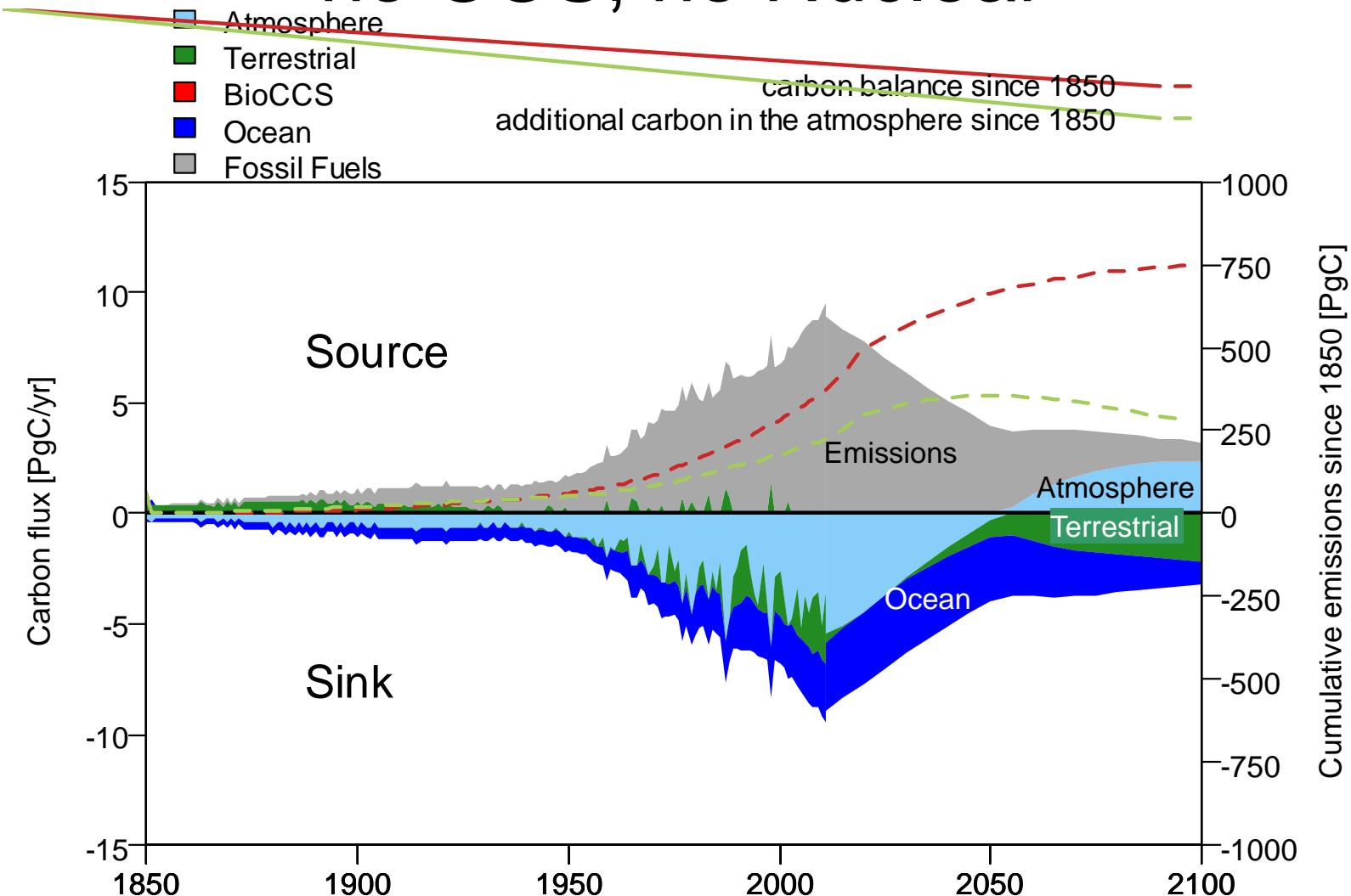
Land-Use Change incorporated into Terrestrial Pool



Historical Carbon Fluxes

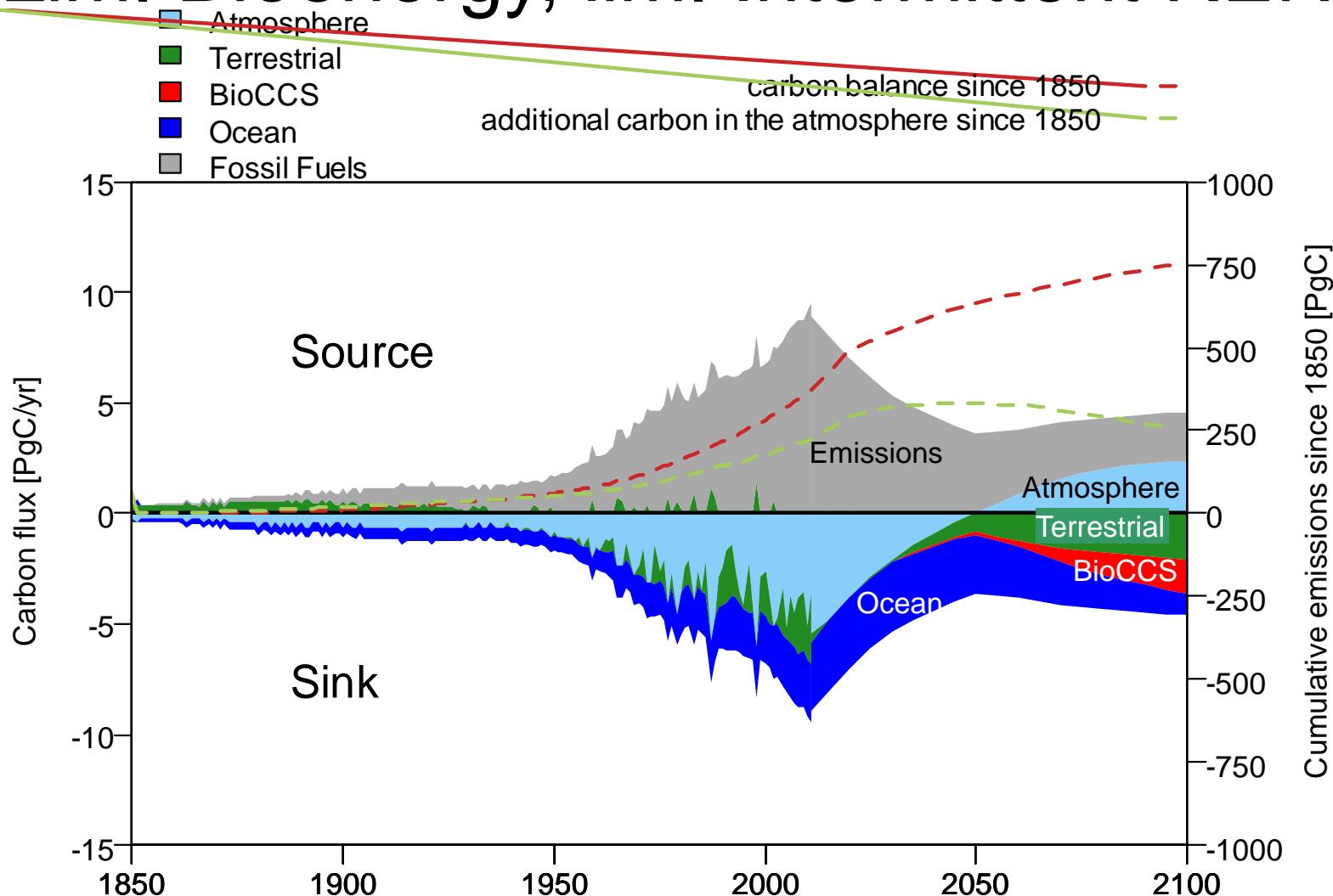


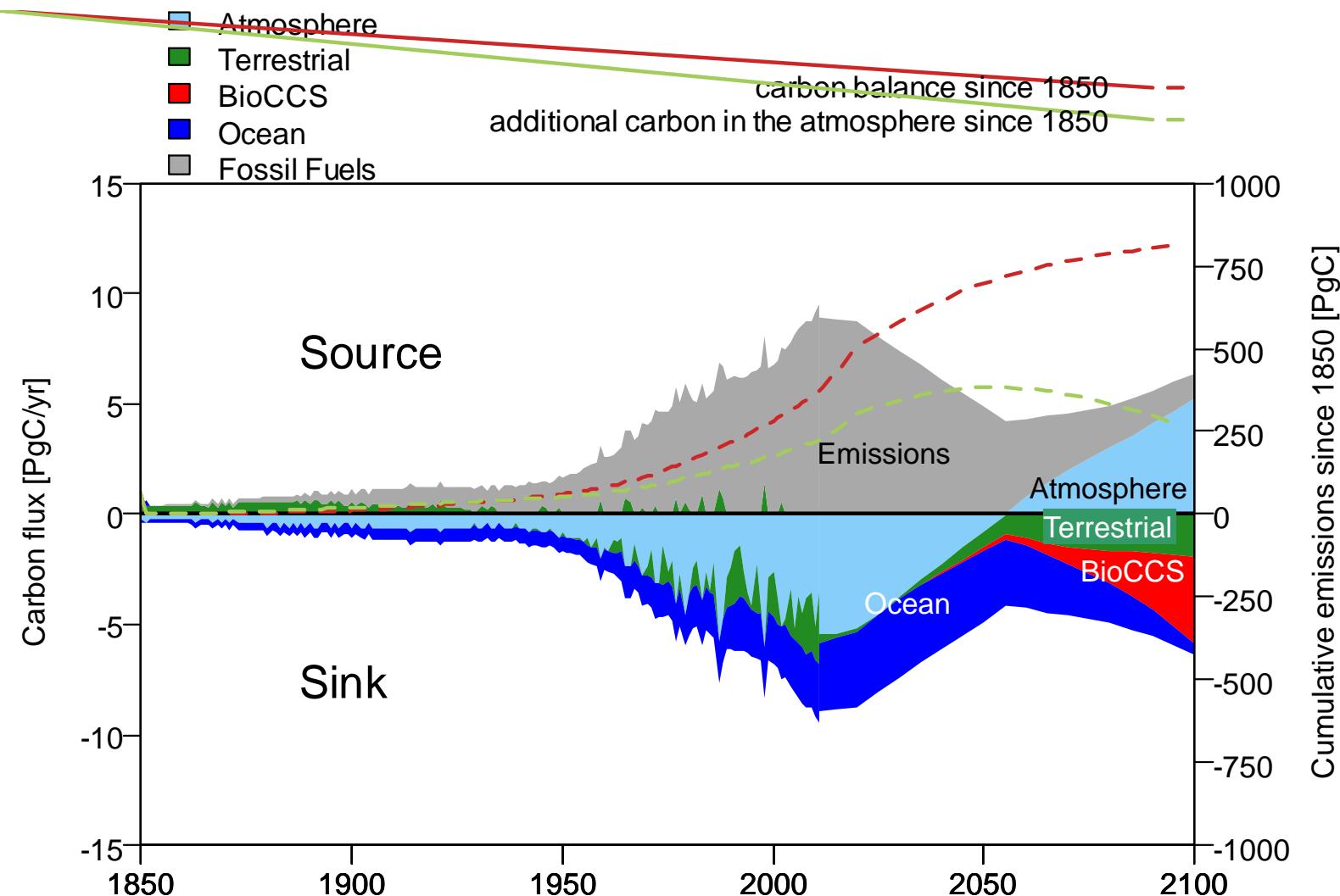
no CCS, no Nuclear

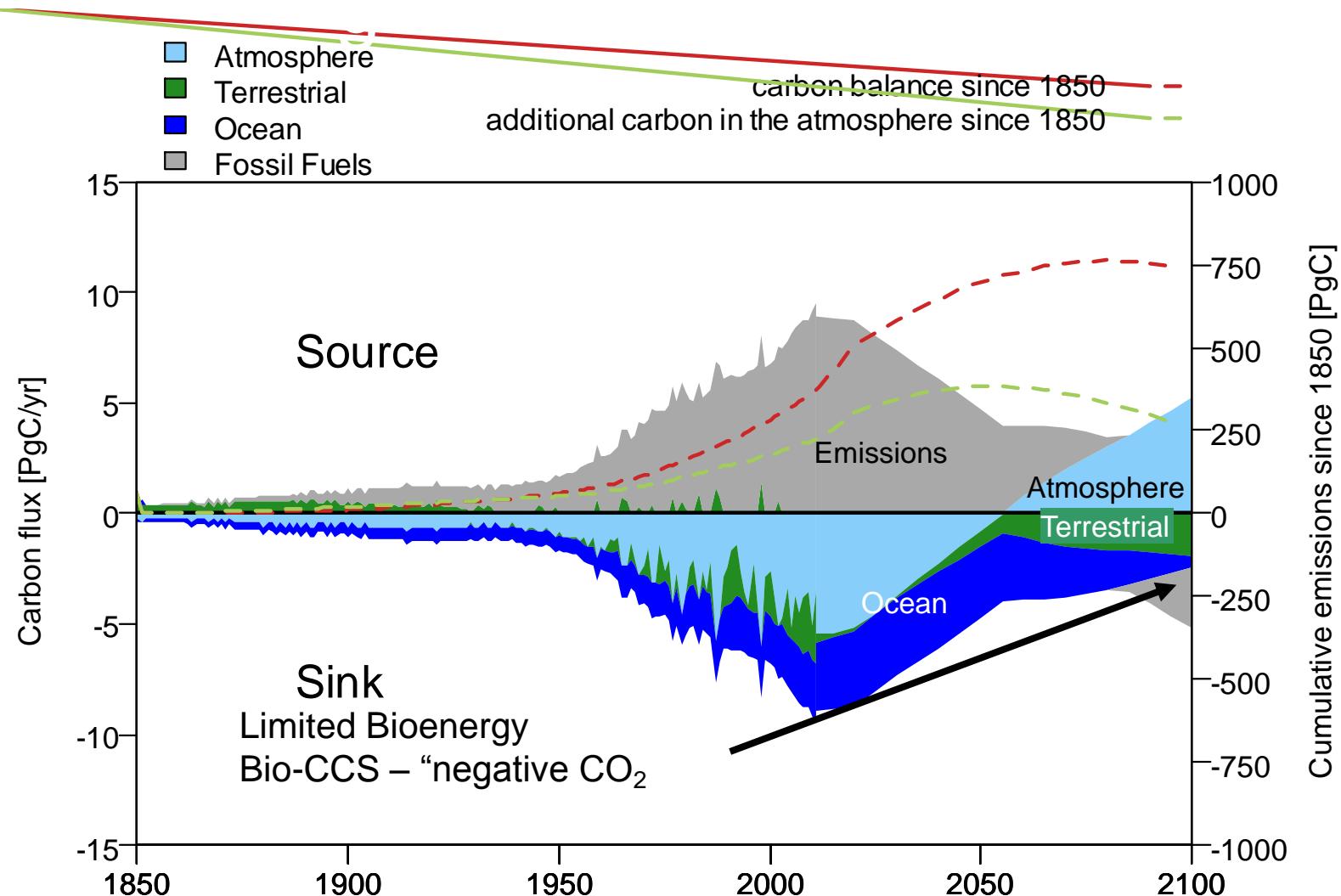


Nakicenovic and Rogner, 2013, Global Energy Assessment, 2012
Historical Data: Global Carbon Project, 2010; Le Quere et al., 2012

Lim. Bioenergy, lim. Intermittent REN







Nakicenovic and Röger, 2013, Global Energy Assessment, 2012
Historical Data: Global Carbon Project, 2010; Le Quere et al., 2012

THANK YOU

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