

Coordinated Carbon Research based on the Scientific Framework and Consultation with Policy Communities

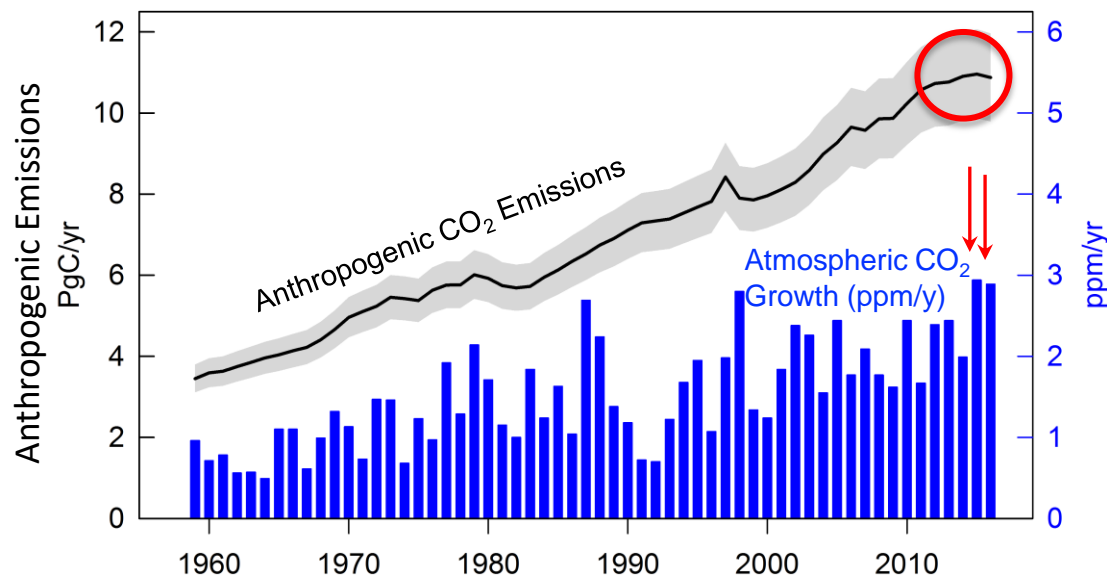
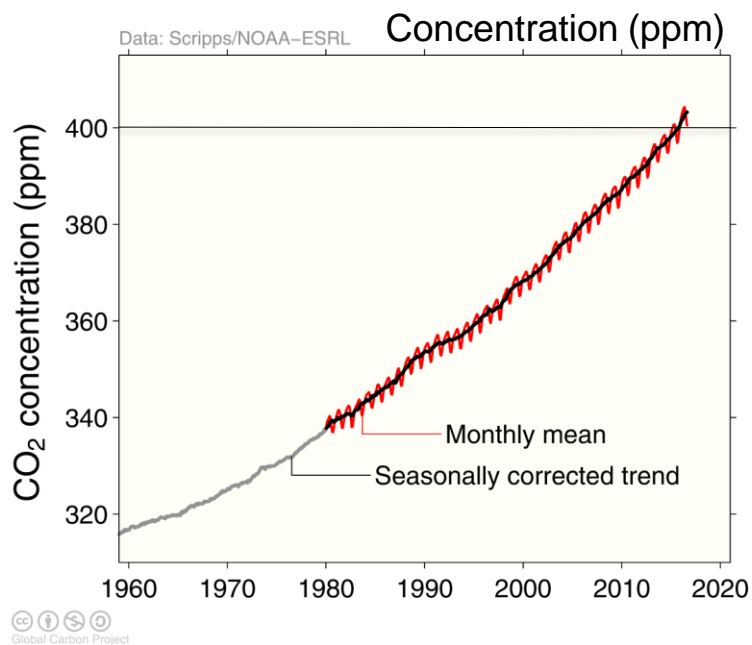


Pep Canadell
CSIRO, Australia

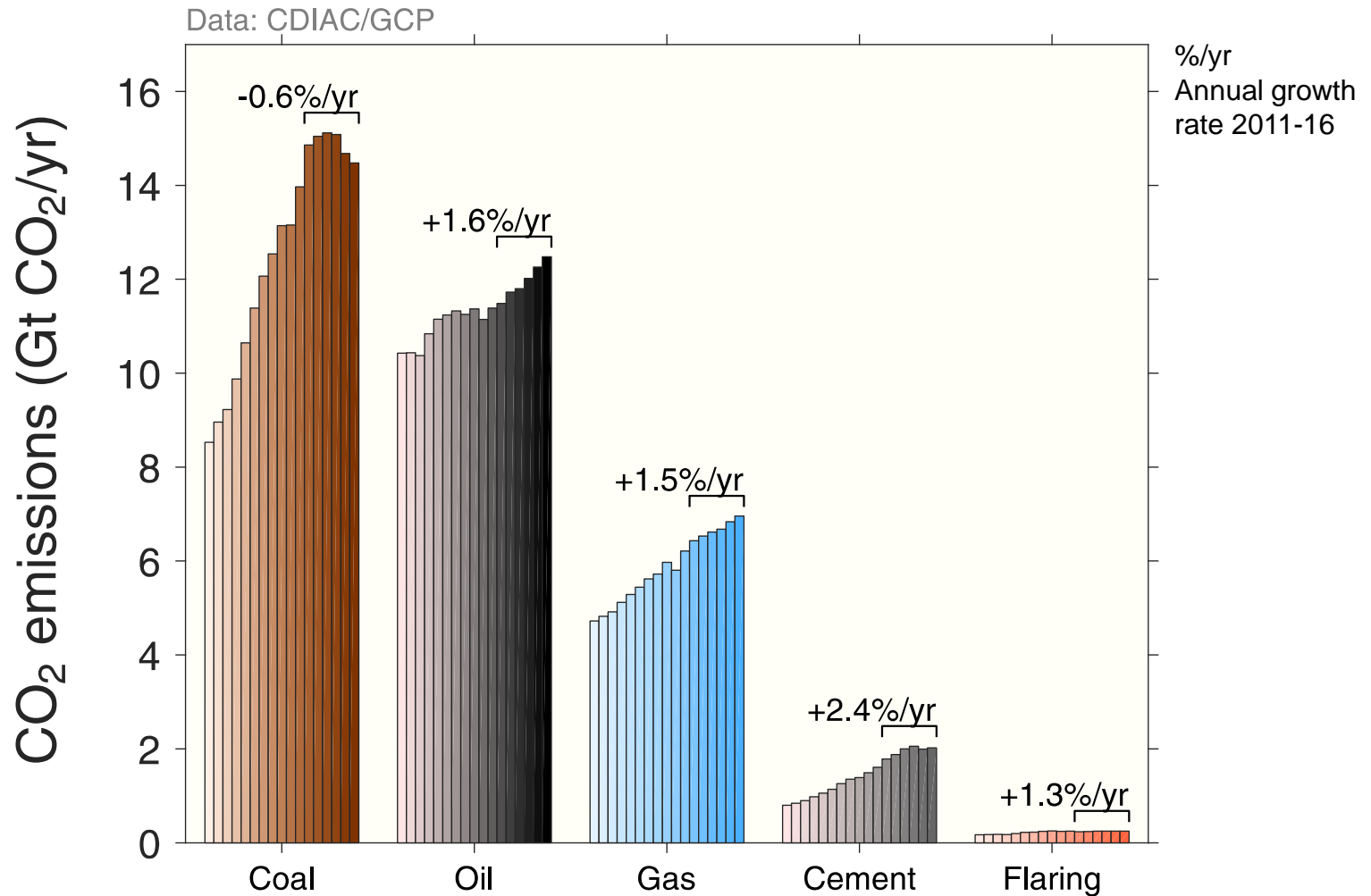


futurearth
research for global sustainability

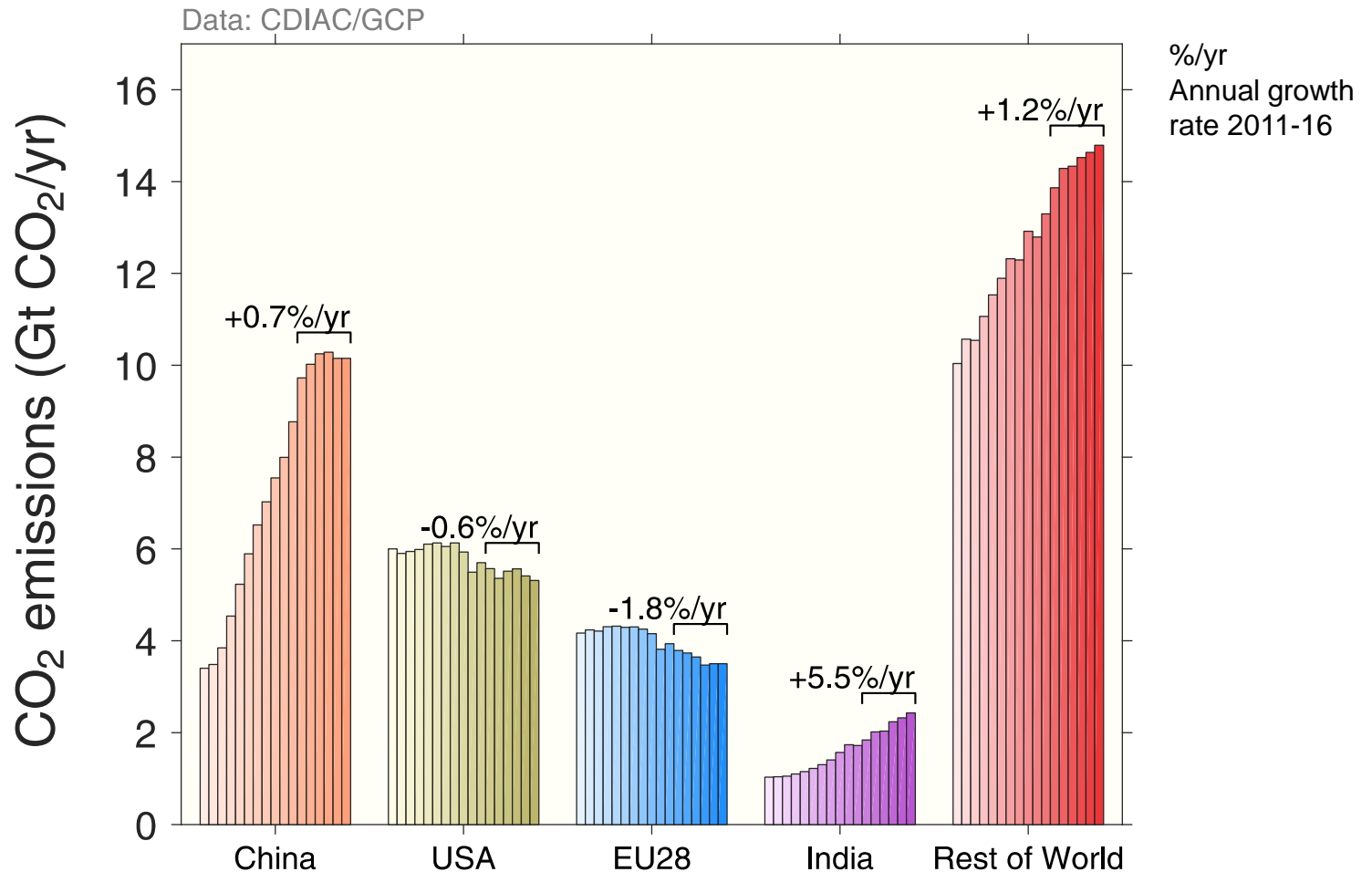
Atmospheric CO₂ and Anthropogenic CO₂ Emissions



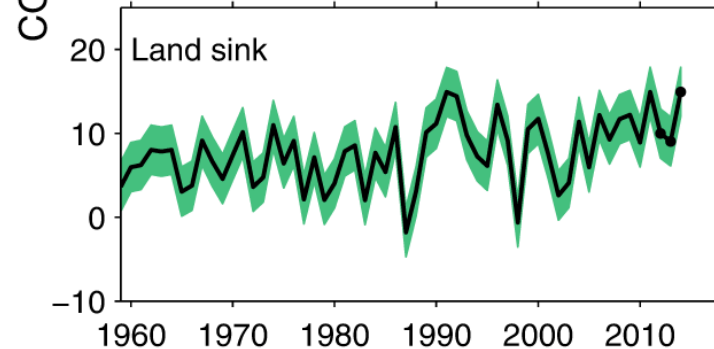
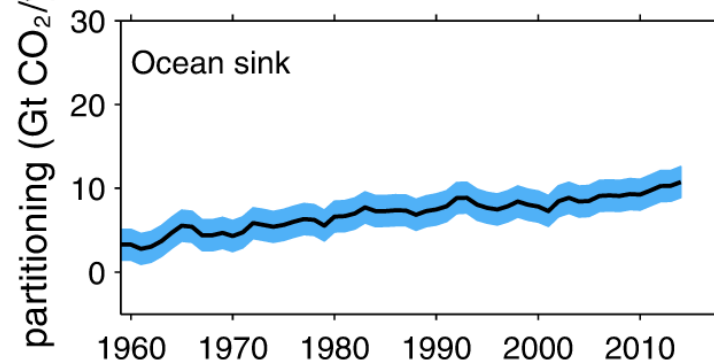
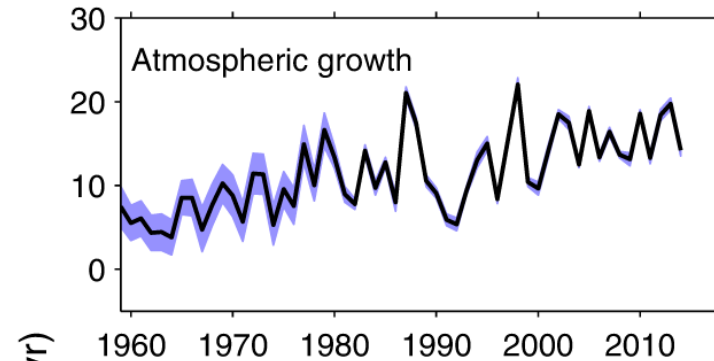
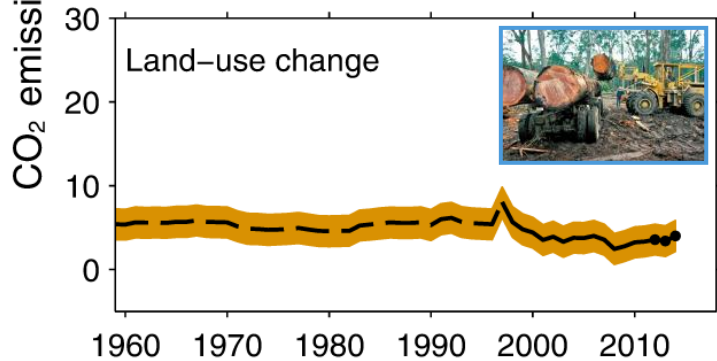
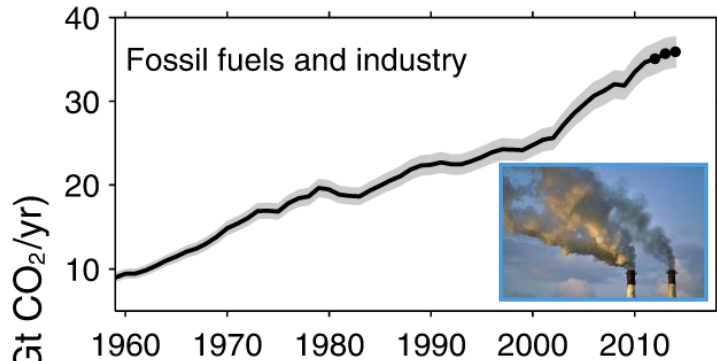
Annual Global CO₂ Fossil Fuel and Industry 2000-2016



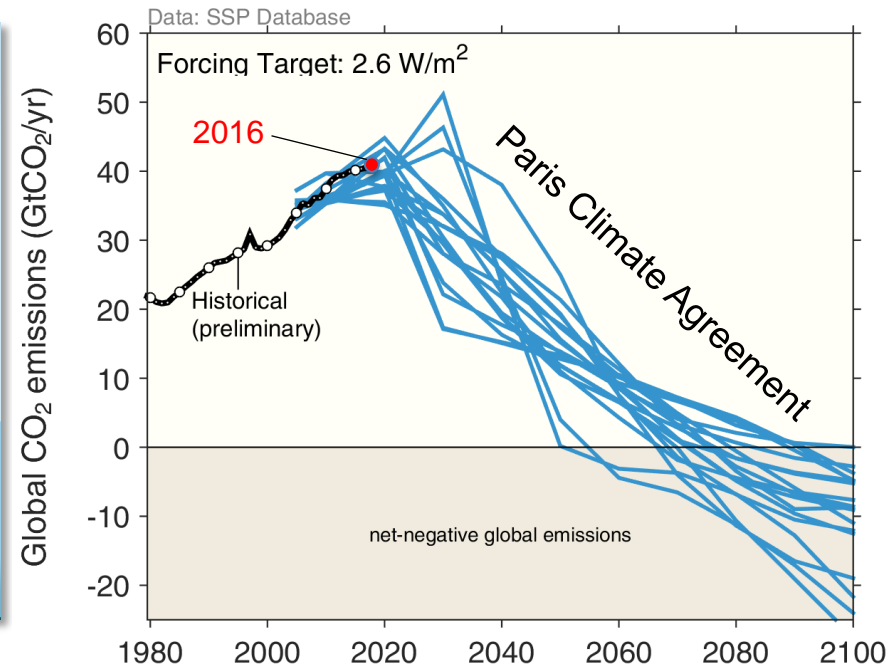
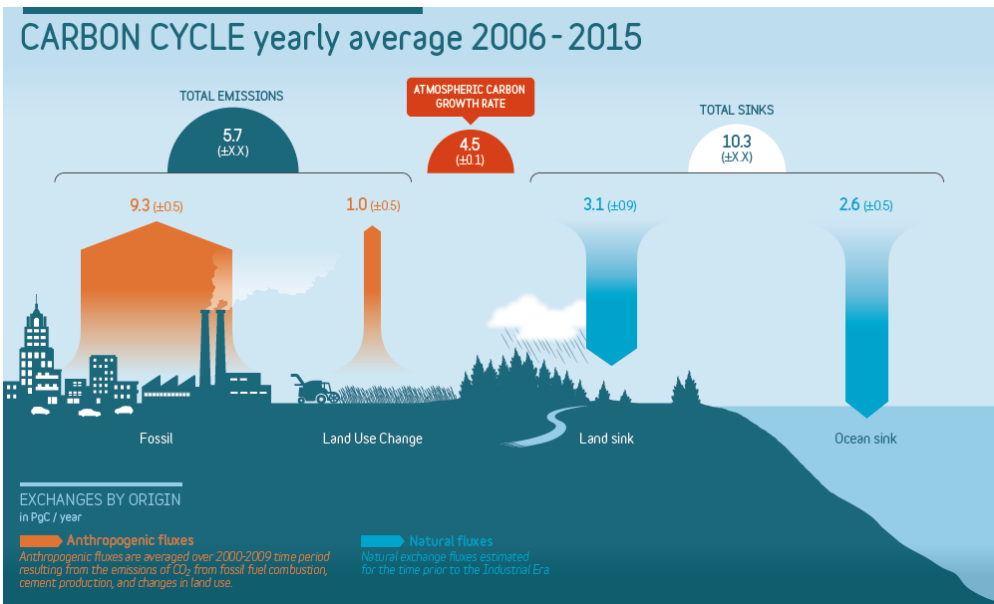
Annual Global CO₂ Fossil Fuel and Industry 2000-2016



Carbon Budget: Trends in Emissions and Sinks

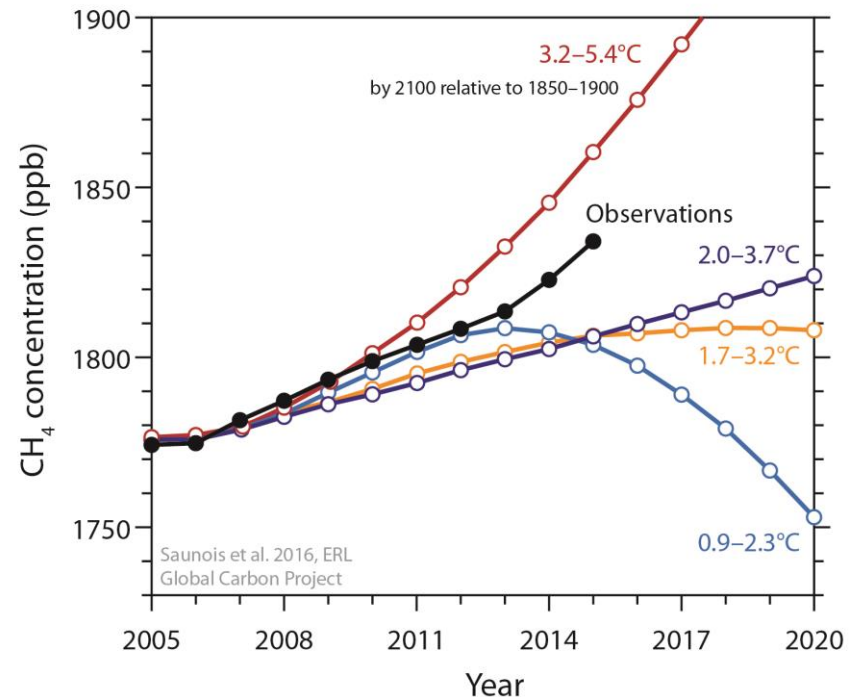
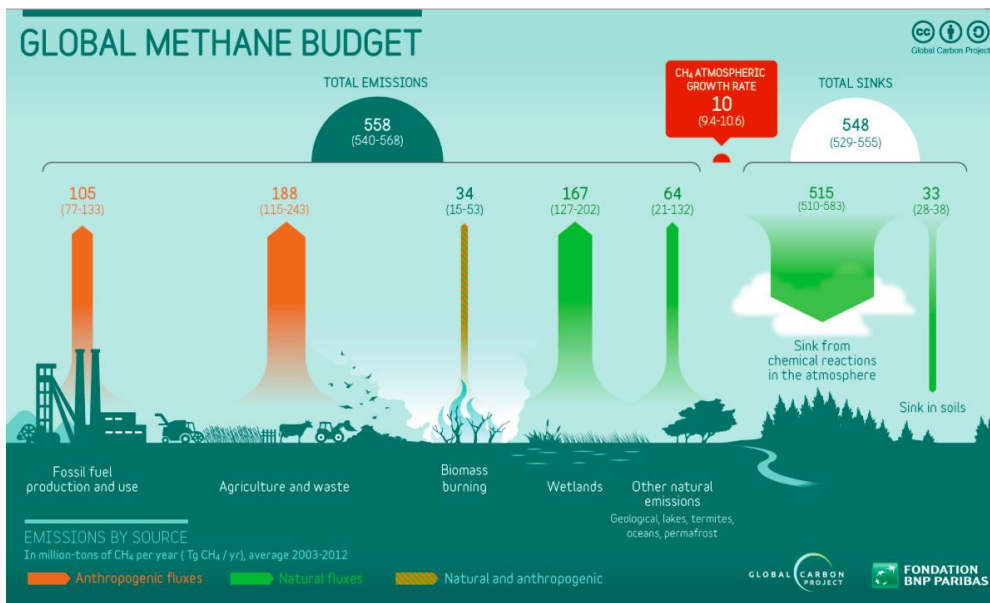


Global Carbon Budgets for Climate Stabilization

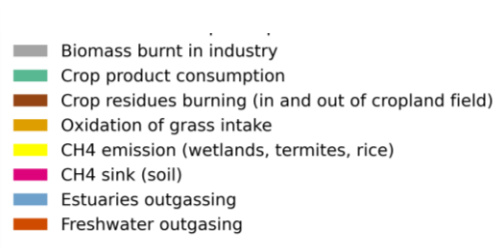
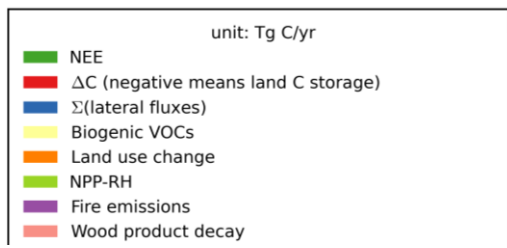
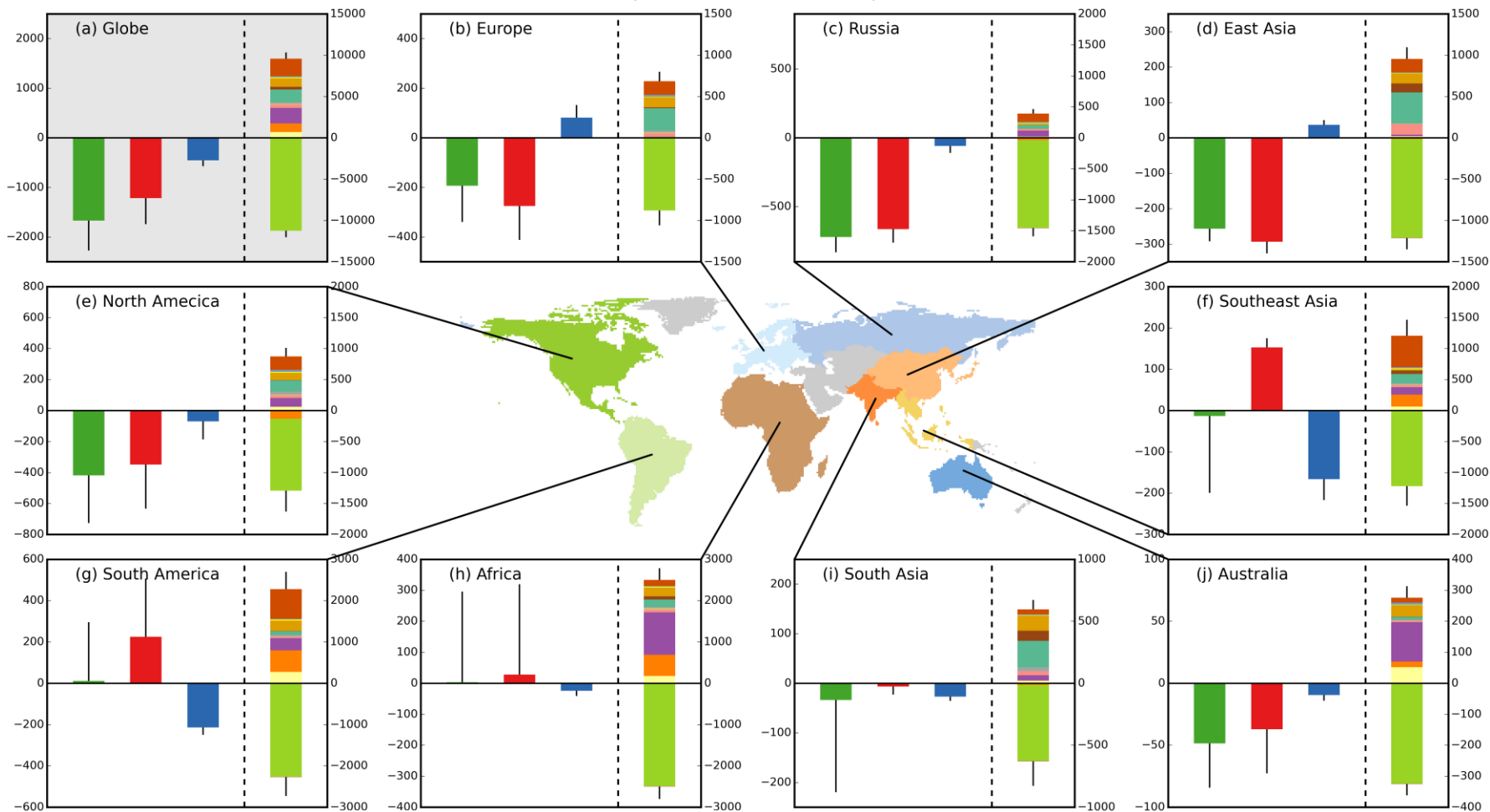


Data: SSP Database; CDIAC, GCP; Global Carbon Budget 2017, in preparation

Global Methane Budgets for Climate Stabilization



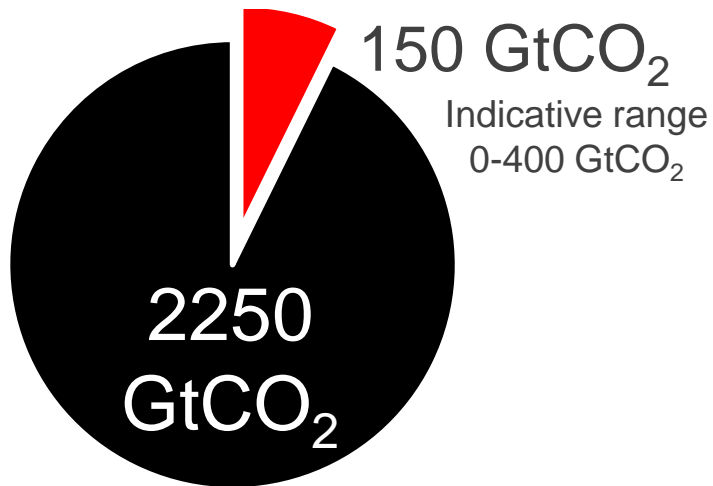
REgional Carbon Cycle Assessment and Processes (RECCAP)



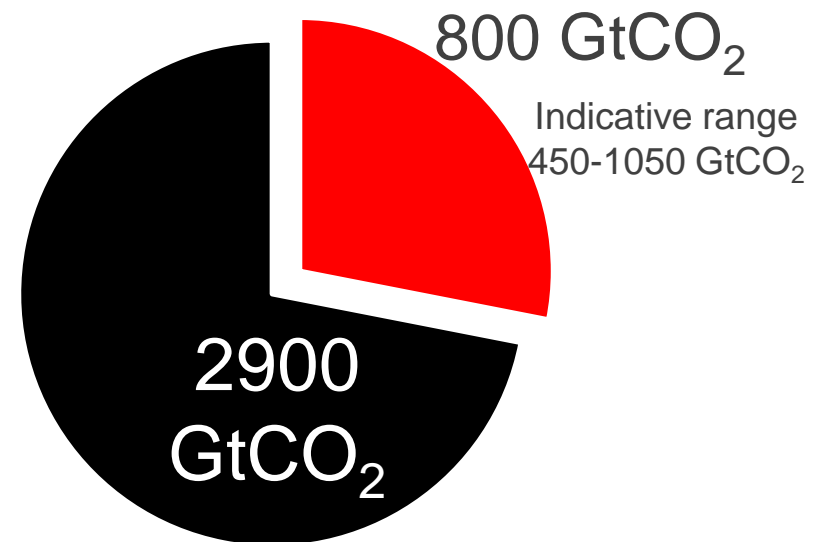
Carbon budgets for Paris Agreement

(from 2017, 66% probability)

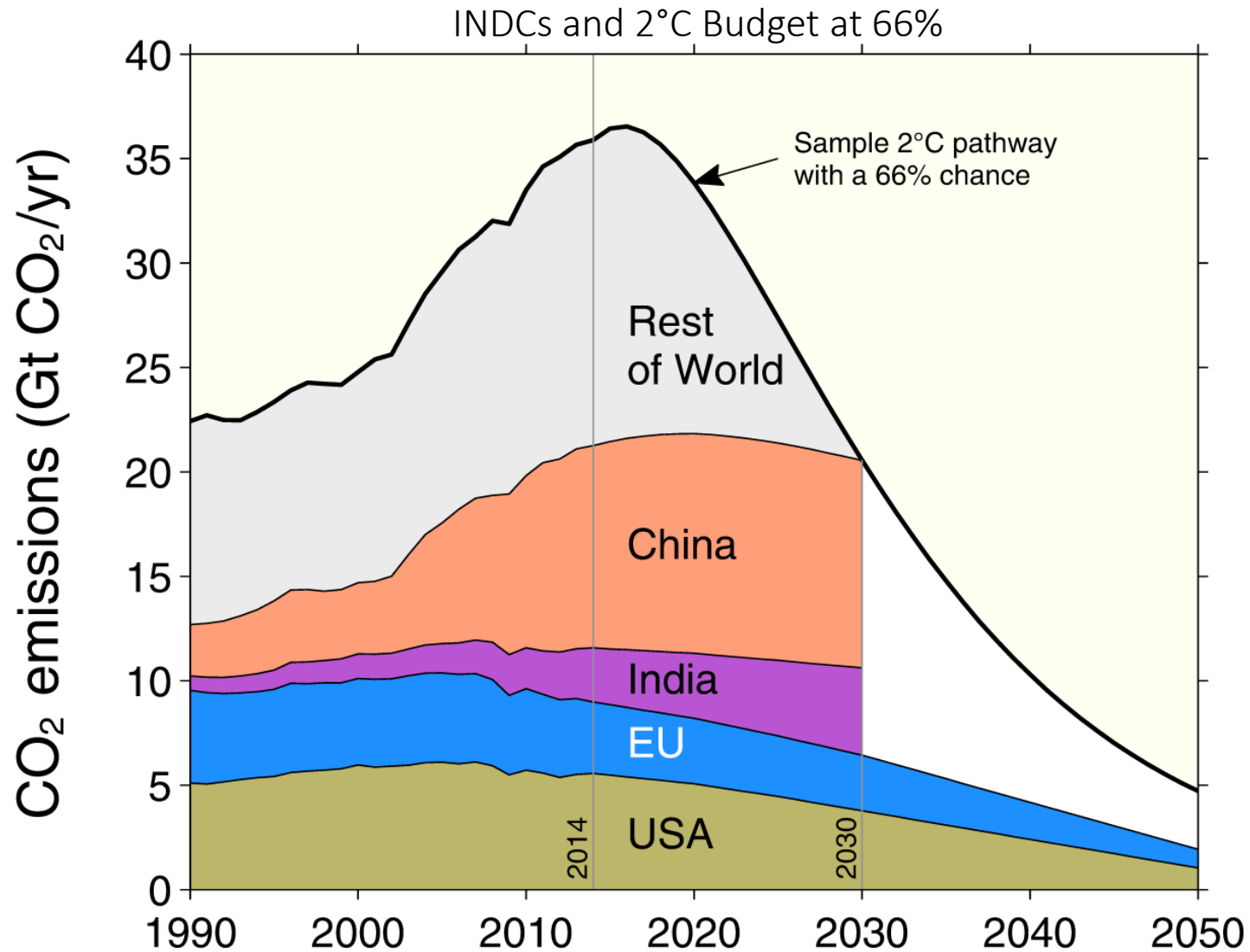
<1.5°C



<2.0°C

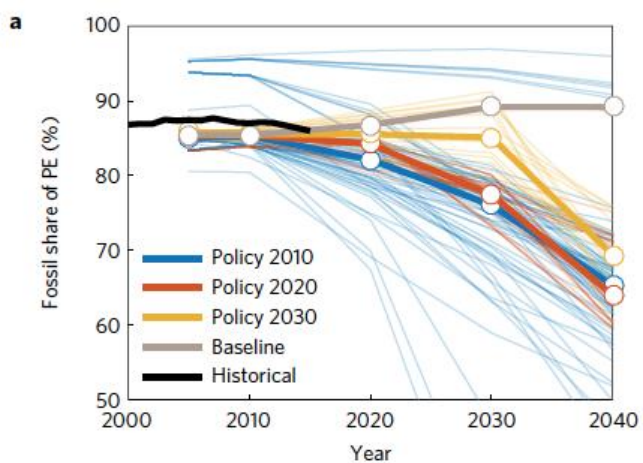


Tracking the Paris Agreement

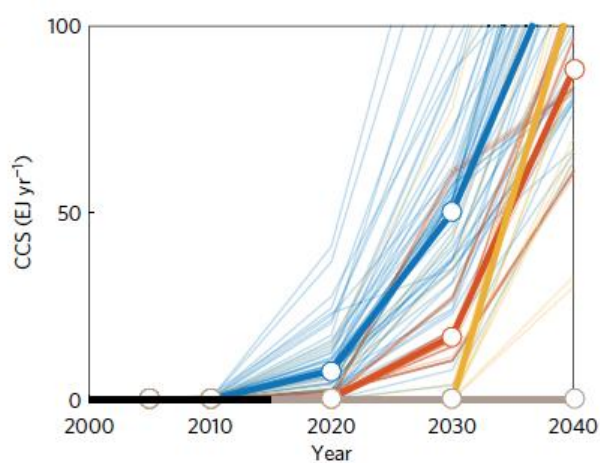


Tracking Energy Pathways for 2°C Scenarios

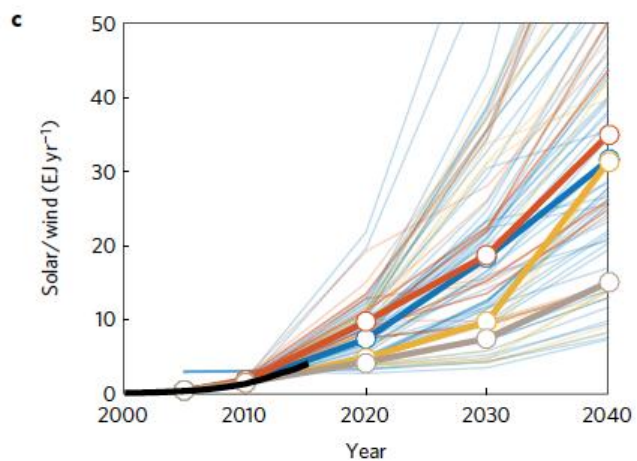
Fossil
Fuels



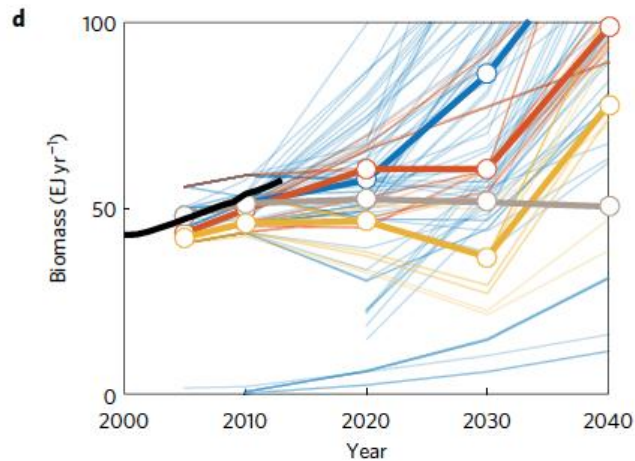
Carbon
Capture &
Storage



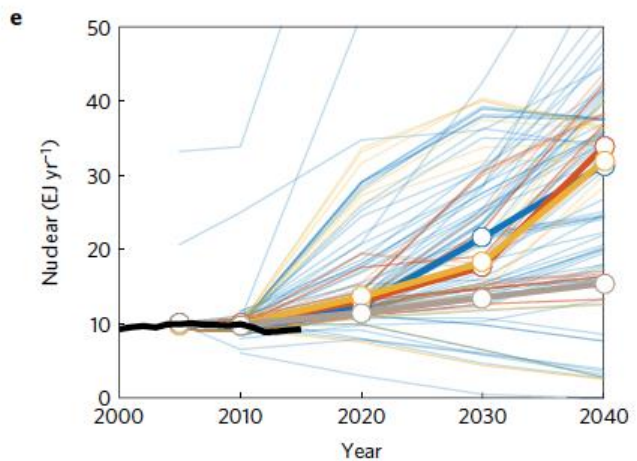
Solar +
Wind



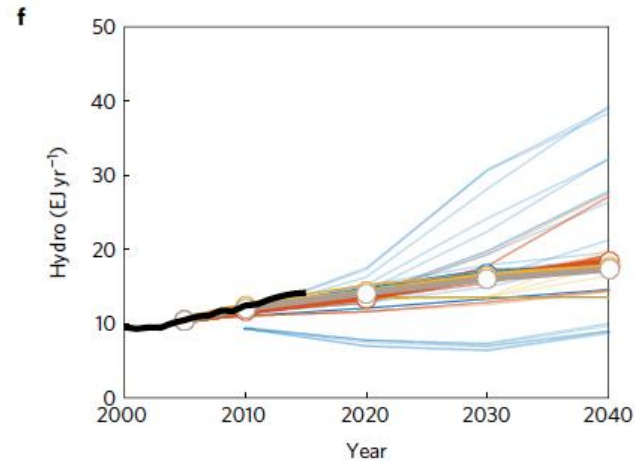
Biomass



Nuclear

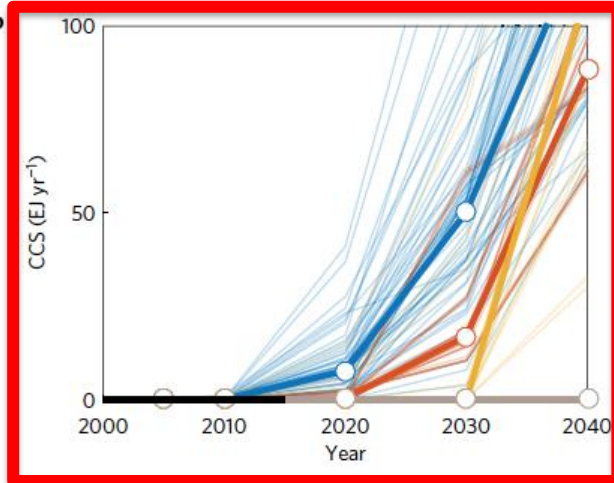
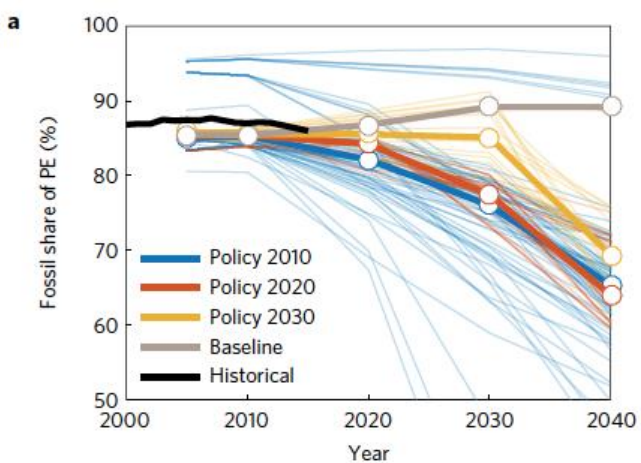


Hydro



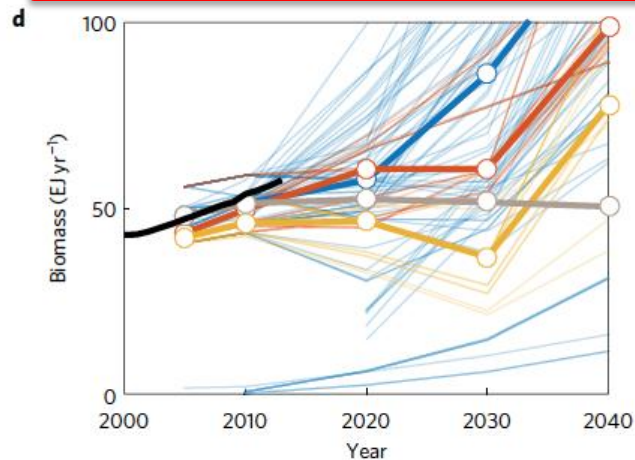
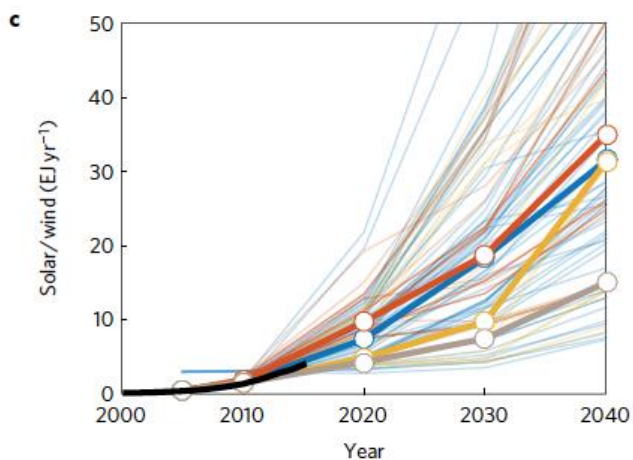
Tracking Energies Pathways for 2°C Scenarios

Fossil
Fuels



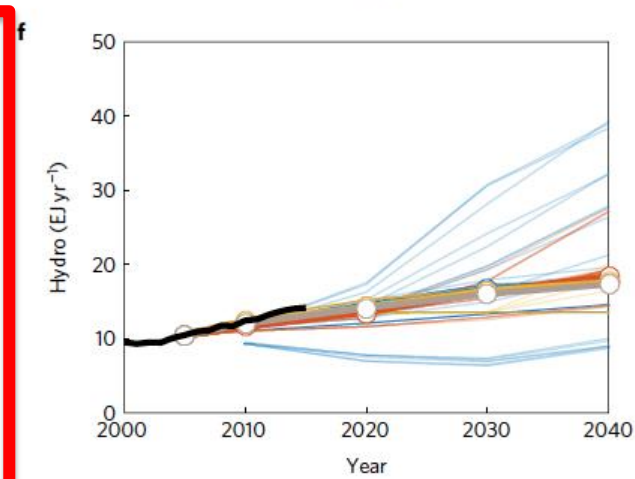
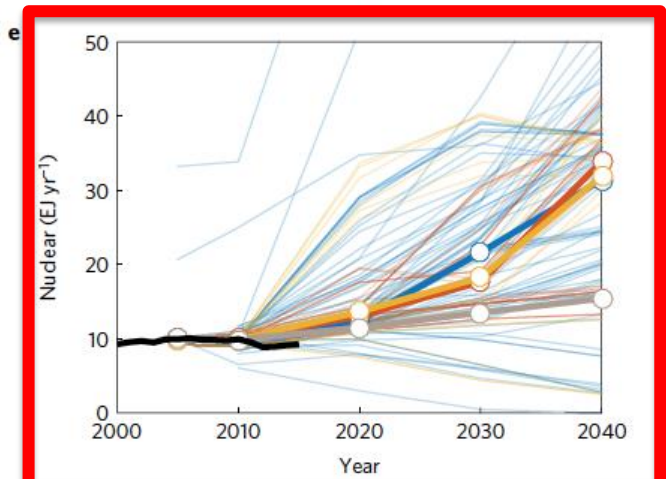
Carbon
Capture &
Storage

Solar +
Wind



Biomass

Nuclear



Hydro

Involvement, Data, Figures, Publications, Media

The screenshot shows the homepage of the Global Carbon Project website. At the top, there is a navigation bar with links for HOME, CARBON ATLAS, CARBON BUDGET, METHANE BUDGET, RECCAP, URBANIZATION, and SEARCH. Below the navigation bar is a sidebar with a language selector and a list of menu items including About GCP, Activities, Meetings, Publications, Science, Research Programs, Carbon Neutral, Internet Resources, Site Map, and Contact Us. The main content area features a large heading "The Global Carbon Project" followed by a paragraph describing the project's focus on the carbon cycle and biogeochemical cycles. Below this, there are three columns of featured content: "New GHG Database" with a photo of a tower, "Earth system responses to negative emissions" with a photo of a forest, and "10th International Carbon Dioxide Conference" with a photo of a mountain range. To the right, there is a "Science Highlights" section with boxes for "Carbon Budget 2016" and "Methane Budget 2016", a line graph titled "Tracking Paris Agreement", and a "More Highlights..." link. The footer contains copyright information and contact details.

GLOBAL CARBON PROJECT

HOME | CARBON ATLAS | CARBON BUDGET | METHANE BUDGET | RECCAP | URBANIZATION | SEARCH

Translate this site
Select Language ▼

About GCP
Activities
Meetings
Publications
Science
Research Programs
Carbon Neutral
Internet Resources
Site Map
Contact Us

The Global Carbon Project

The Global Carbon Project (GCP) studies the integrated picture of the carbon cycle and other interacting biogeochemical cycles, including biophysical and human dimensions and their interactions and feedbacks.

This broad objective is covered by three themes: a) *Diagnostics* - Patterns and variability of natural and anthropogenic carbon sources and sinks; b) *Vulnerability* - Processes and feedbacks of the biophysical-human system; and c) *Low Carbon* - Carbon management and policy.

| | | |
|--|---|---|
| New GHG Database  paper | Earth system responses to negative emissions  paper | 10th International Carbon Dioxide Conference 21-25 August 2017  website |
|--|---|---|

Science Highlights

Carbon Budget 2016
[Carbon Budget 2016](#)

Methane Budget 2016
[Methane Budget 2016](#)

Tracking Paris Agreement

[More Highlights...](#)

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www.globalcarbonproject.org

GLOBAL CARBON ATLAS

The Global Carbon Atlas is a platform to explore and visualize the most up-to-date data on carbon fluxes resulting from human activities and natural processes.

Human impacts on the carbon cycle are the most important cause of climate change.

OUTREACH

Take a journey through the history and future of human development and carbon

[GO](#)

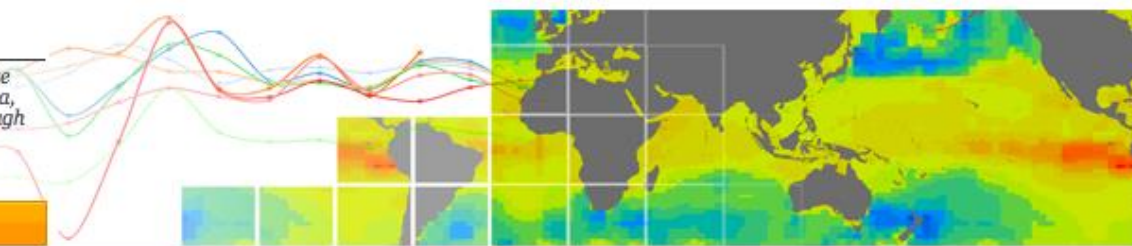
EMISSIONS

Explore and download global and country level carbon emissions from human activity.

[GO](#)

RESEARCH

Explore and visualize research carbon data, and get access through data providers

[GO](#)

1 EMISSIONS
Select one emission type and a unit

TYPE

UNITS

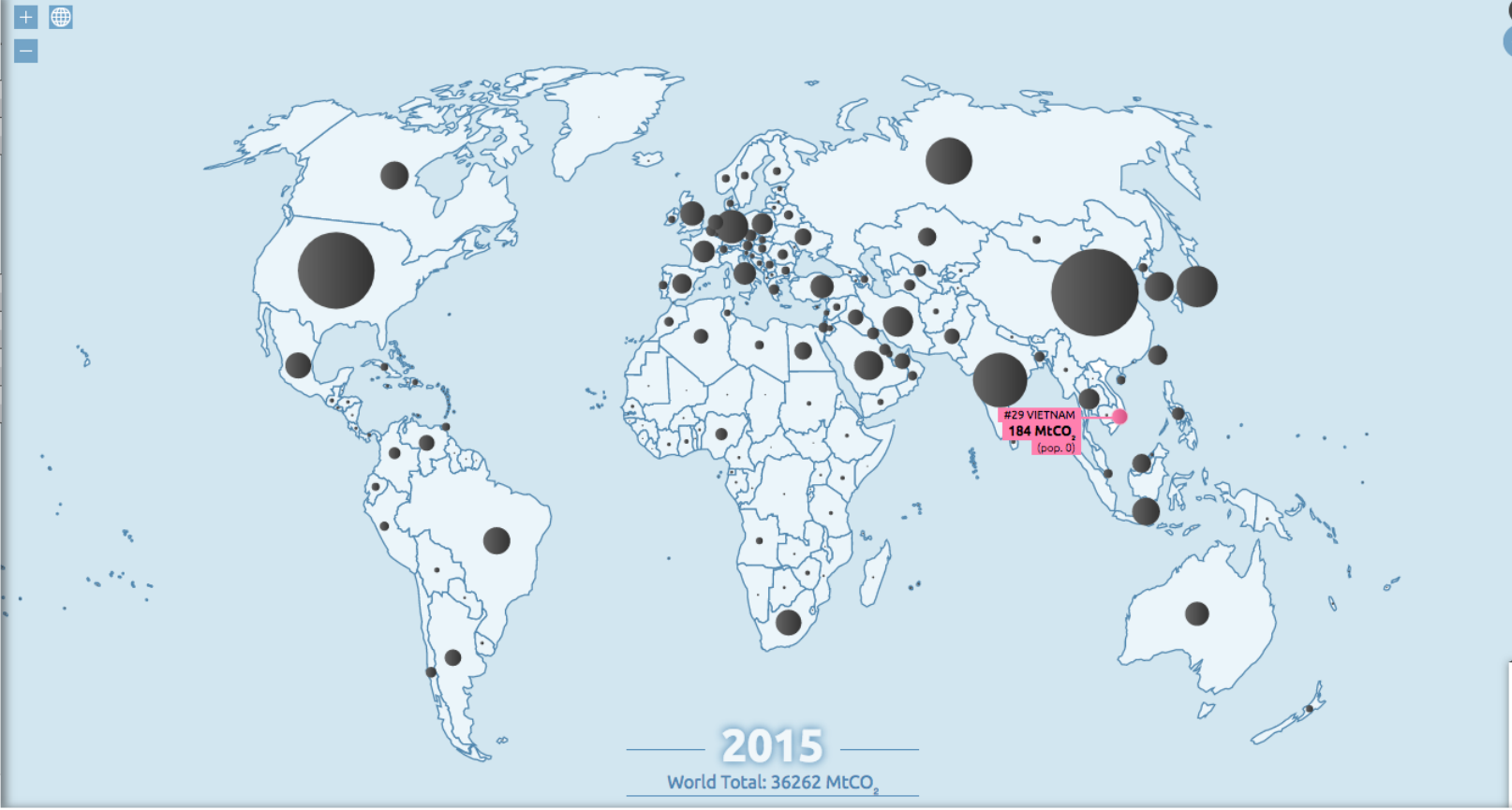
2 COUNTRIES
Select countries or group of countries

ALL 219

REGIONS

GROUPS

RANKING



TOOLS

- MAP VIEW
- CHART VIEW
- FOCUS
- RANKING
- TIME SERIES
- BUBBLES

SOURCES

HELP

METHODS

SHARE

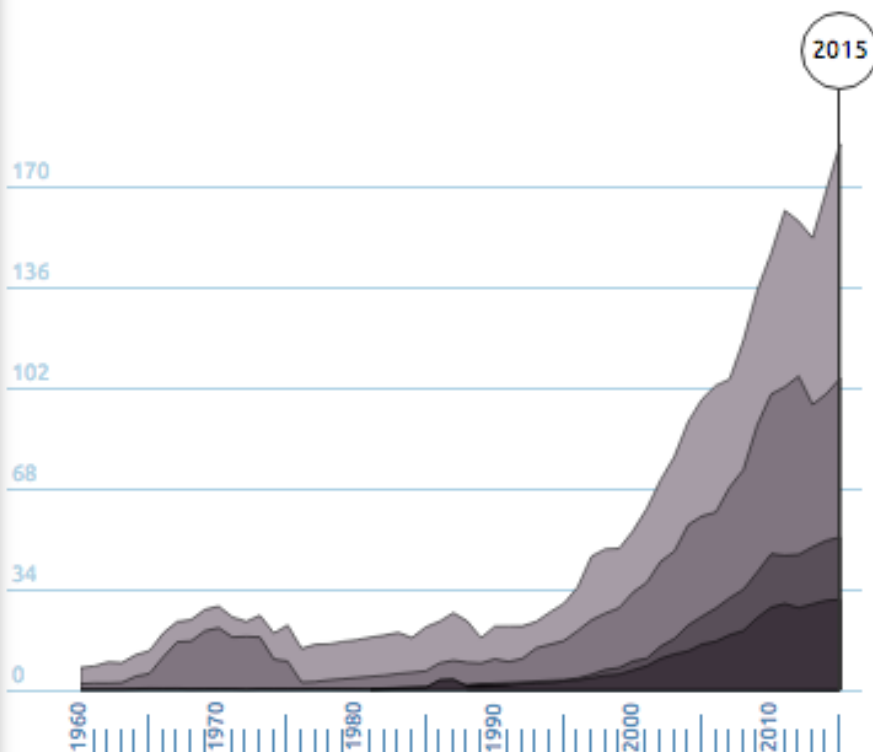
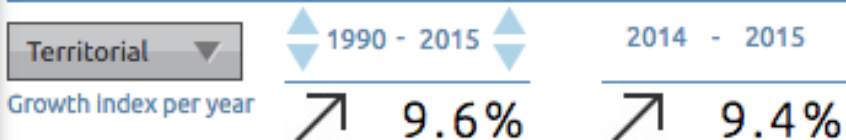
DOWNLOAD

3 TIMELINE



VIETNAM

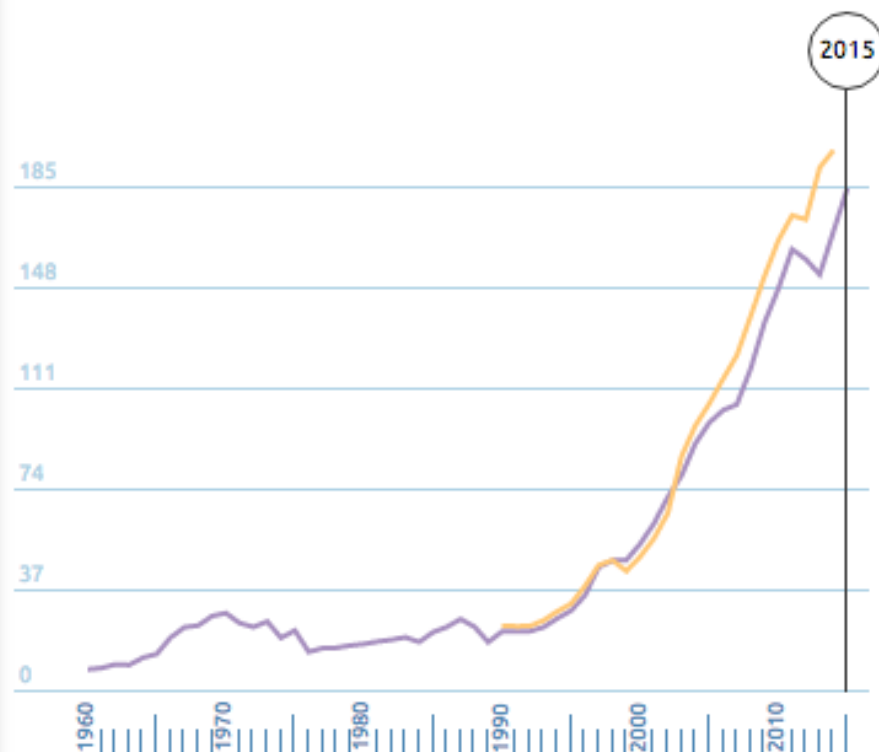
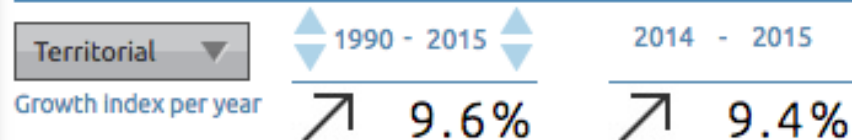
Territorial emissions



| Emissions | MtCO ₂ (2015) |
|-------------|---------------------------|
| Coal | 79 |
| Oil | 54 |
| Gas | 21 |
| Gas Flaring | No data for selected year |
| Cement | 30 |

VIETNAM

Consumption emissions



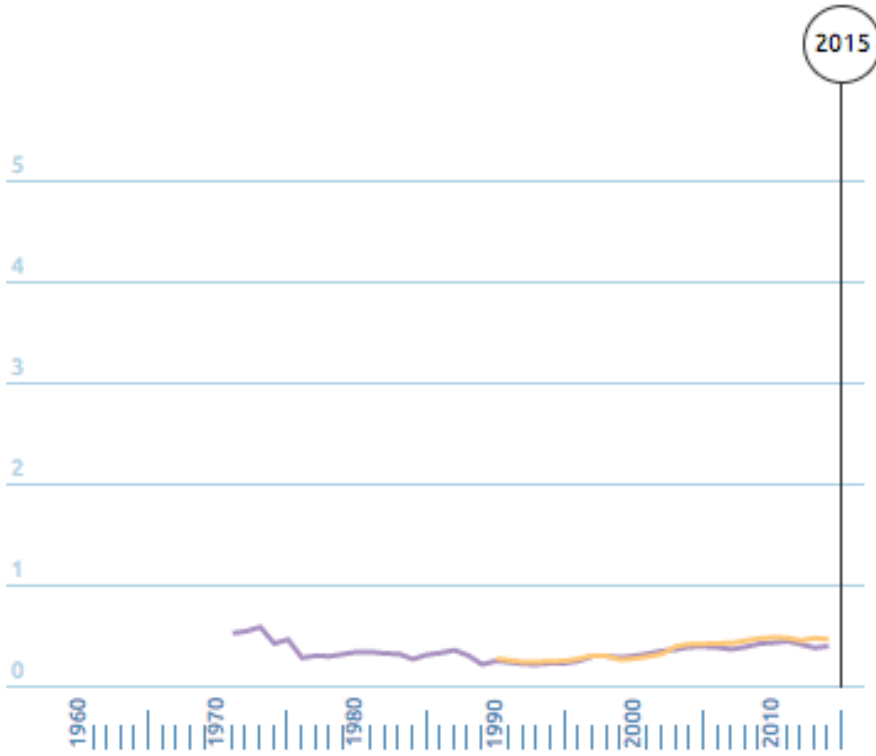
| Emissions | MtCO ₂ (2015) |
|-------------|---------------------------|
| Consumption | No data for selected year |
| Territorial | 184 |

VIETNAM Emissions per GDP

3

Territorial per GDP 1990 - 2015 2014 - 2015

Growth Index per year No data for selected year No data for selected year



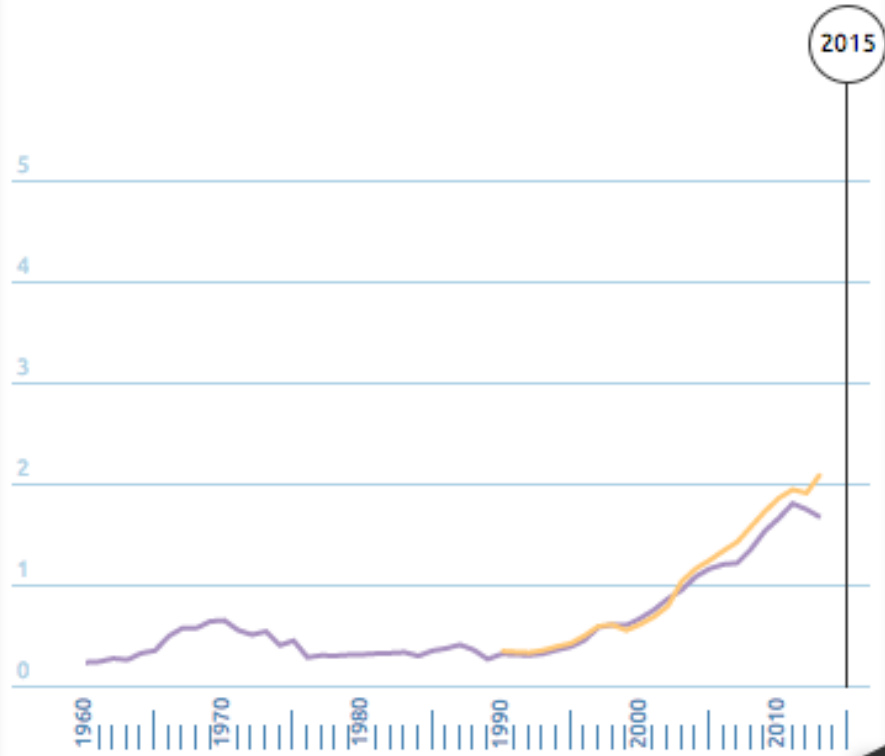
| Emissions | kgCO ₂ /GDP (2015) |
|---------------------|-------------------------------|
| Territorial Per GDP | No data for selected year |
| Consumption Per GDP | No data for selected year |

VIETNAM Emissions per capita

4

Territorial per capita 1990 - 2015 2014 - 2015

Growth Index per year No data for selected year No data for selected year



| Emissions | tCO ₂ /person (2015) |
|------------------------|---------------------------------|
| Territorial Per Capita | No data for selected year |
| Consumption Per Capita | No data for selected year |

Navigation icons: list, help, search, share, refresh

THAILAND

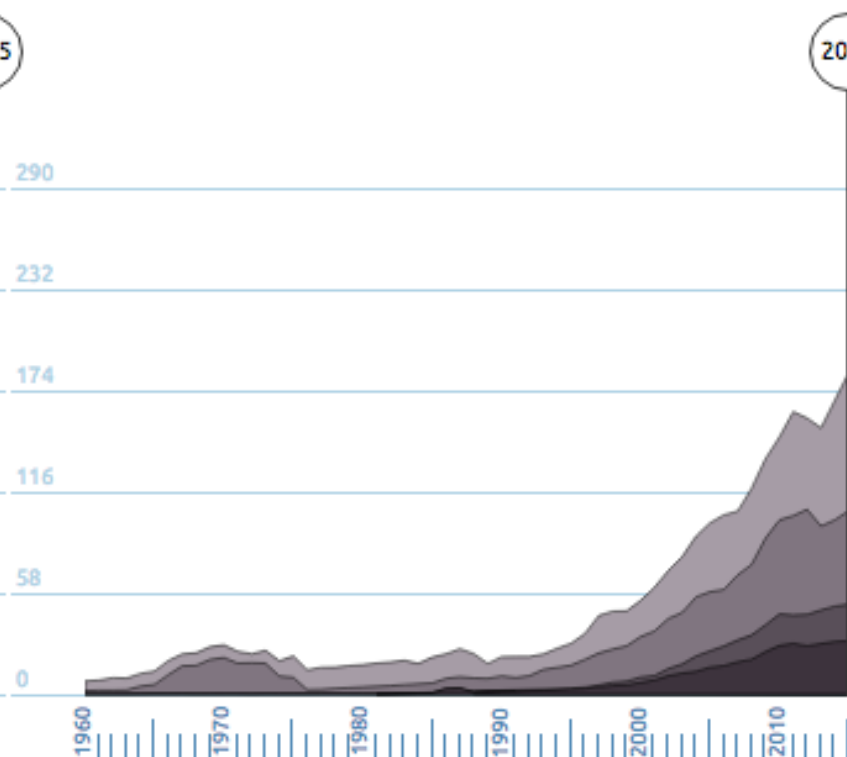
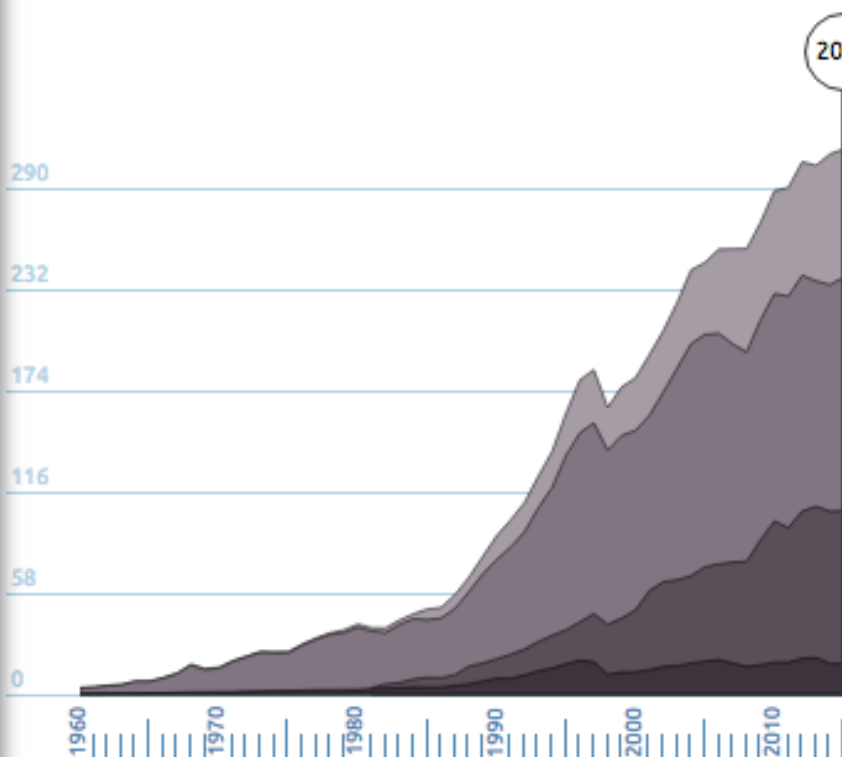
Territorial emissions

VIETNAM

Territorial emissions

Territorial 1990 - 2015
 Growth Index per year 2014 - 2015
 ↗ 4.6% ↗ 0.9%

Territorial 1990 - 2015
 Growth Index per year 2014 - 2015
 ↗ 9.6% ↗ 9.4%



| Emissions | MtCO ₂ (2015) |
|-------------|---------------------------|
| Coal | 73 |
| Oil | 134 |
| Gas | 88 |
| Gas Flaring | No data for selected year |
| Cement | 17 |

| Emissions | MtCO ₂ (2015) |
|-------------|---------------------------|
| Coal | 79 |
| Oil | 54 |
| Gas | 21 |
| Gas Flaring | No data for selected year |
| Cement | 30 |