

GLOBAL CARBON BUDGET 2012-2021

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Global Carbon Project

TOTAL EMISSIONS

39.6
(±2.9)

ATMOSPHERIC CO₂
GROWTH RATE

19.1
(±0.07)

TOTAL SINKS

22.0
(±2.7)

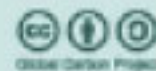
TOTAL SINKS

22.0
(±2.7)

(±2.2)

10.6 (±1.5)

GLOBAL METHANE BUDGET 2008-2017



Global Carbon Project

TOTAL EMISSIONS

576
(550-594)

ATMOSPHERIC CH₄
GROWTH RATE

+18.2*
(17.3 to 19.0)

TOTAL SINKS

556
(501-574)

111
(81-131)

217
(207-240)

30
(23-36)

181
(159-200)

37
(21-50)

518
(474-532)

38
(27-45)

Fossil fuel
production and use

Agriculture and waste

Biomass and biofuel
burning

Wetlands

Other natural
emissions

Inland waters, geological,
oceans, tundra, wild animals,
permafrost, vegetation

Sink in soils

Sink from
chemical reactions
in the atmosphere

EMISSIONS AND SINKS

In teragrams of CH₄ per year (Tg CH₄ / yr), average over 2008-2017 from top-down approaches

* This shows the observed atmospheric growth rate. Budget imbalance of 1-2 Tg CH₄ / yr reflects uncertainties of models in capturing the observed growth rate.

Anthropogenic fluxes

Natural fluxes

Natural and anthropogenic fluxes

GLOBAL CARBON PROJECT

FONDATION
BNP PARIBAS

35.2 (±1.8)

Fossil fuels and industry

EMISSIONS AND SINKS

Anthropogenic emissions

Ocean sink

GL