#### **HOW DOES IT WORK?**

Emissions are calculated using:

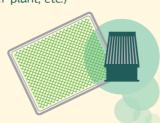
- activity data from international statistics (e.g. fuels sold, industrial production, crop production, animals, etc.)

#### - emission factors (e.g. how much of a certain pollutant is emitted for a certain



### technologies penetration and abatement measures

(e.g. filters on vehicles or on a stack of a power plant, etc.)



#### WHAT DOES IT TELL US?

Examples of key findings:

Global fossil CO<sub>2</sub> emissions are still rising (+ 19 % with respect to 2005), although **not in Europe** (- 29 % with respect to 2005). Efforts to reduce emissions are now put forward in a transparent way under the Paris agreement, but verification of their effectiveness will need consistent atmospheric measurements and global tool linking emissions to measurements.



#### **HOW MANY DOWNLOADS?**







#### ARE YOU CURIOUS TO KNOW MORE?

The Emissions Database for Global Atmospheric Research (EDGAR): https://edgar.jrc.ec.europa.eu

GHG emissions of all world countries, 2021 report: https://edgar.jrc.ec.europa.eu/report\_2021

#### **COLLABORATIONS**



























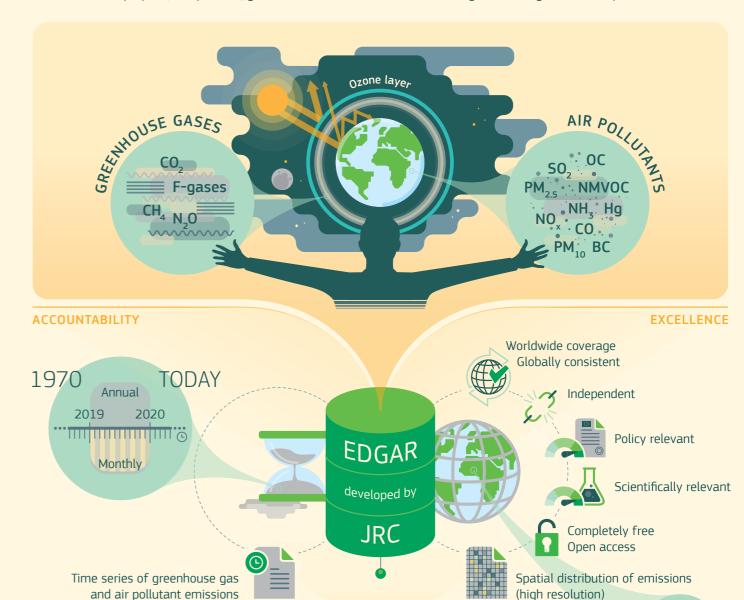


# The Emissions Database for Global Atmospheric Research

## Mapping human emissions on Earth

#### WHAT IS IT?

EDGAR is a multipurpose, independent, global database of human emissions of greenhouse gases and air pollution on Earth.



INTERNATIONALLY RECOGNISED

Over 220 countries



#### WHAT CAN IT BE USED FOR?

EDGAR is used as independent verification system in support of:

- control strategies for emission mitigation



- emission trend analysis and projections



- international treaty reporting requirements (e.g. Paris agreement)



 global and regional modelling of atmospheric pollution and climate change



 evaluate current and historical policy impacts at the European and global scales





- track emissions changes in emissions sources, fuels, technologies and abatement measures

