PROJECT: ANALYZING INDUSTRY CARBON EMISSIONS





Photo by Maxim Tolchinskiy on Unsplash

When factoring heat generation required for the manufacturing and transportation of products, *Greenhouse gas emissions attributable to products, from food to sneakers to appliances, make up more than 75% of global emissions.*

(Source: The Carbon Catalogue https://www.nature.com/articles/s41597-022-01178-9)

Our data, which is publicly available on nature.com, contains product carbon footprints (PCFs) for various companies. PCFs are the greenhouse gas emissions attributable to a given product, measured in CO₂ (carbon dioxide equivalent).

This data is stored in a PostgreSQL database containing one table, [product_emissions], which looks at PCFs by product as well as the stage of production that these emissions occurred. Here's a snapshot of what [product_emissions] contains in each column:

product_emissions	
field	data type
id	VARCHAR
year	INT

field	data type
product_name	VARCHAR
company	VARCHAR
country	VARCHAR
industry_group	VARCHAR
weight_kg	NUMERIC
carbon_footprint_pcf	NUMERIC
upstream_percent_total_pcf	VARCHAR
operations_percent_total_pcf	VARCHAR
downstream_percent_total_pcf	VARCHAR

You'll use this data to examine the carbon footprint of each industry in the dataset!

