Tomorrow

Founding Team

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We have created the **electricityMap**, a global electricity platform for citizens, energy professionals, and green-customer-facing companies

electricityMap Live
electricitymap.org
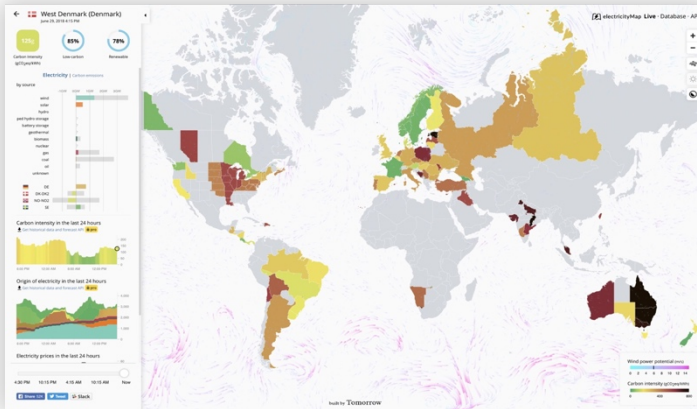
- Real-time view of the electricity system
- 100+ geographies covered
- 5-minute granularity
- 1.5M visitors per year // 5,000 per day
- Free
- Open source

electricityMap Data
data.electricitymap.org
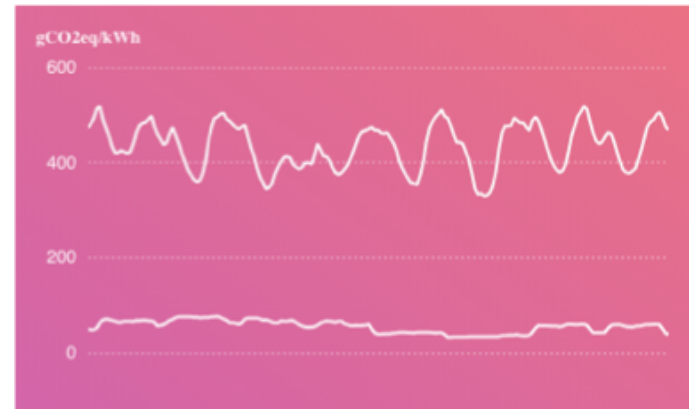
- Granular historical datasets
- Standardized coverage accros geographies

electricityMap API
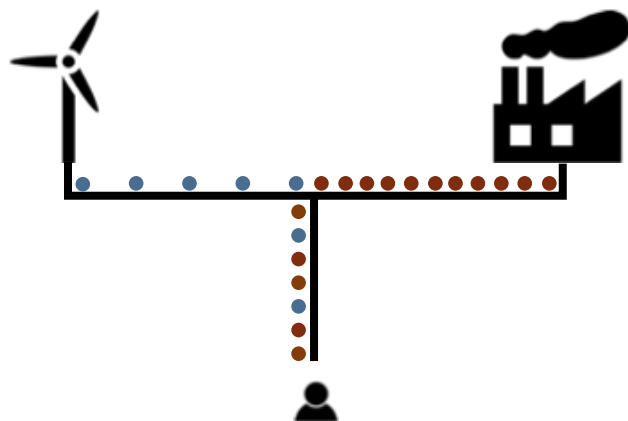api.electricitymap.org

- Live data feed enabling companies to engage their customers with visual insights
- 24h-ahead rolling forecasts for predictive optimization of flexible systems

We compute and forecast the origin of electricity consumed, and its associated carbon footprint
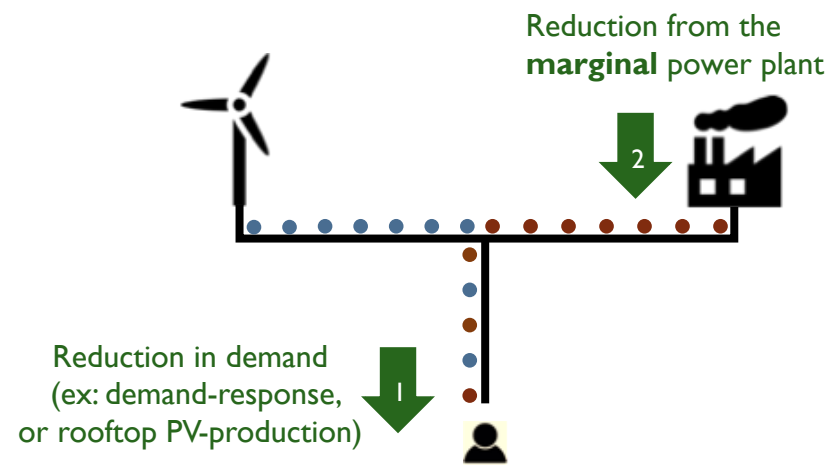in real-time, globally, and with 24-h rolling forecasts

Average mix

average grid mix: 33% wind
                    67% coal

average grid carbon intensity: 670 gCO$_2$/kWh

The **average** carbon intensity allows quantifying how much CO$_2$ an electricity consumer **emits** over a given period

Marginal mix

Reduction from the **marginal** power plant

Reduction in demand (ex: demand-response, or rooftop PV-production)

marginal grid mix: 0% wind
                     100% coal

marginal grid carbon intensity: 1000 gCO$_2$/kWh

The **marginal** carbon intensity allows quantifying how much CO$_2$ a project or an action **avoids** on the electricity grid

⚠️ we also take into account power imported from neighboring zones ⚠️

We provide **real-time visual insights** to engage citizen & customers in participating in CO$_2$-reduction efforts
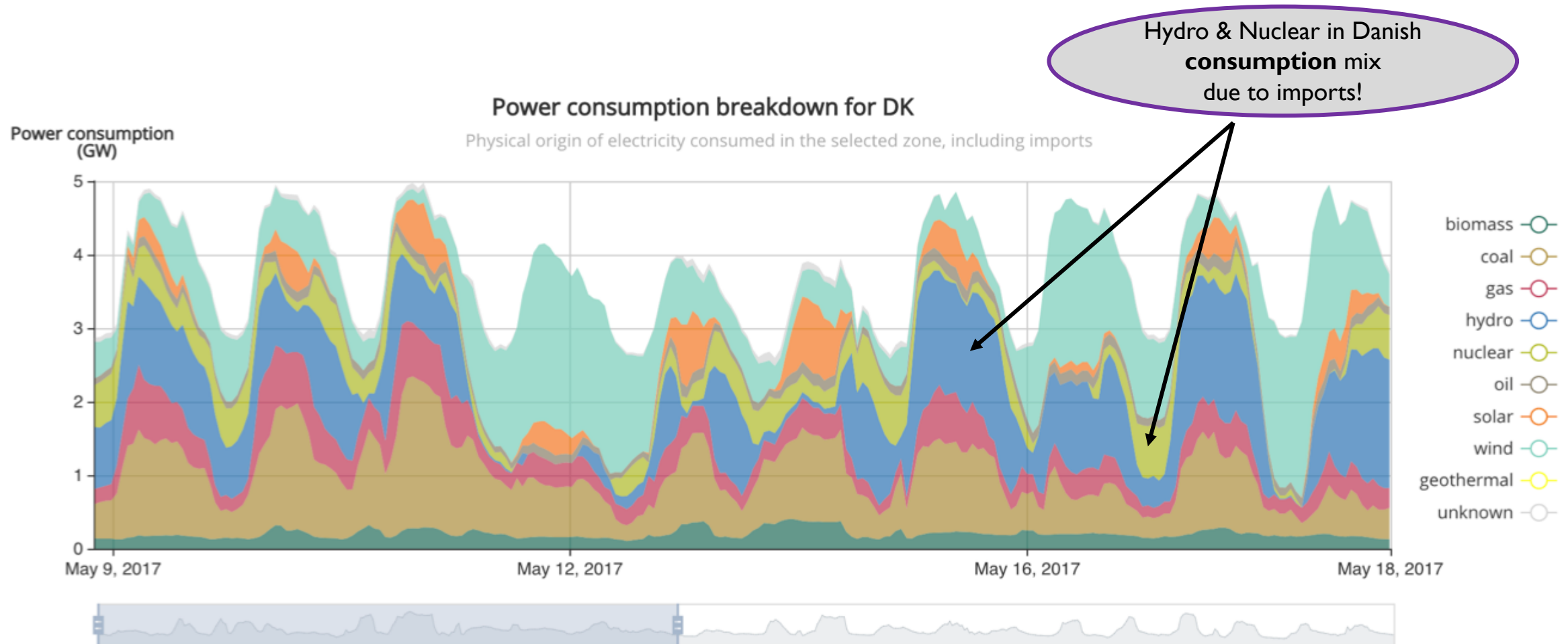
Accessible at electricitymap.org freely

"back-in-time" feature accessible upon request
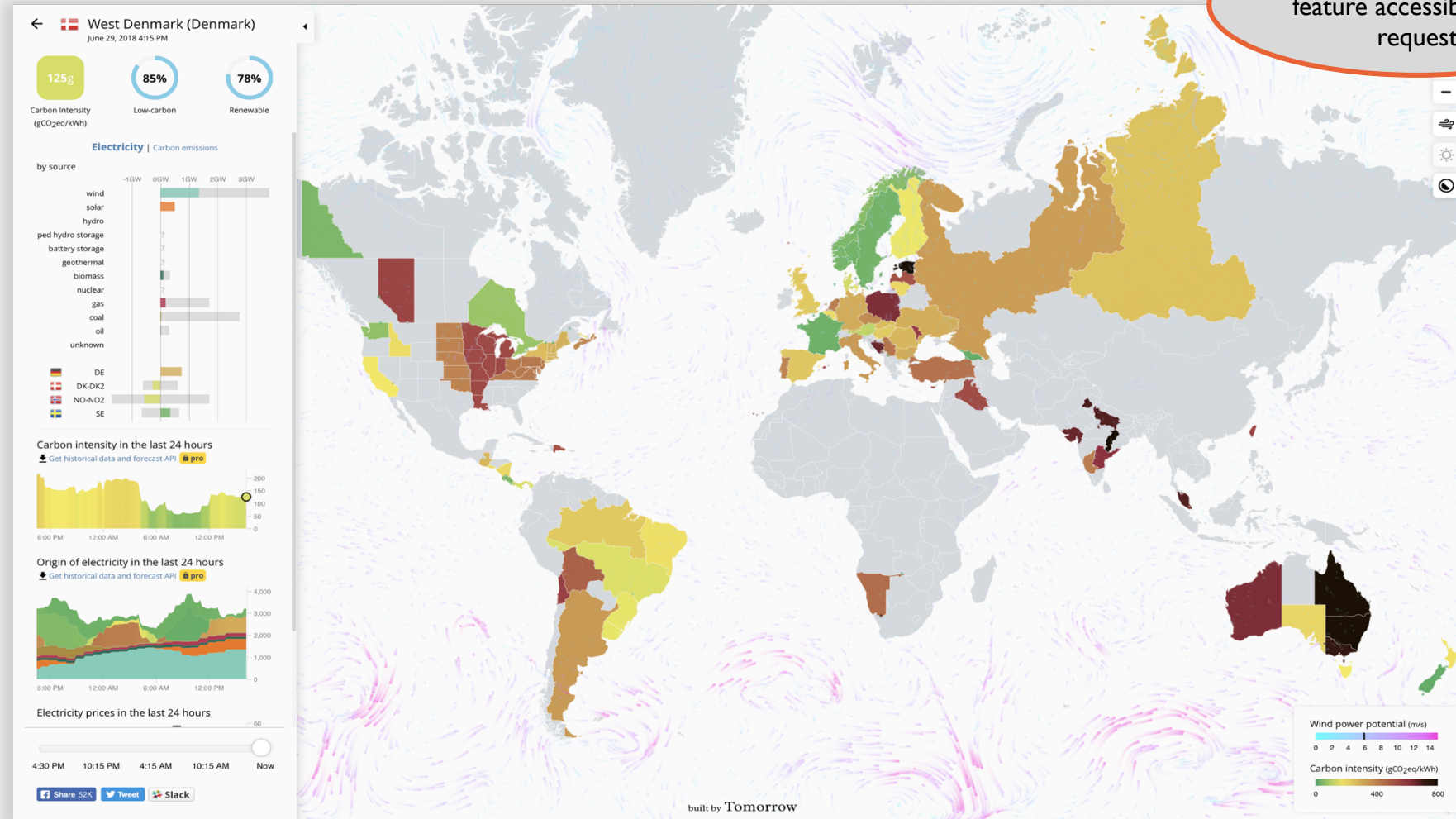
We generate valuable **insights** from historical data

Accessible at data.electricitymap.org as data query service (csv/excel format)
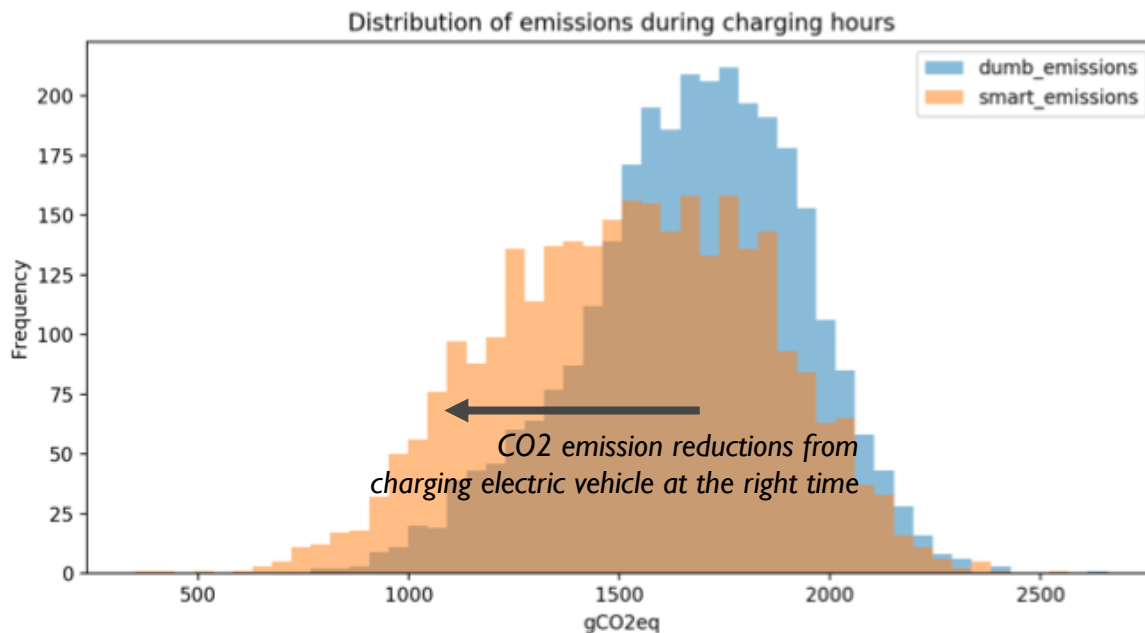

Power consumption breakdown for DK

Physical origin of electricity consumed in the selected zone, including imports

Hydro & Nuclear in Danish **consumption** mix due to imports!

We **stream this data** via a API enabling EVs, radiators or datacenters to optimize CO2 emissions by consuming at the right time / place

Accessible at api.electricitymap.org as monthly subscription (json REST API)

Electric Vehicles: demonstrated savings
- 10% CO2 emissions saved by price-based smart charging in France
- 15% CO2 emissions saved by CO2-based smart charging in Denmark

Distribution of emissions during charging hours

CO2 emission reductions from charging electric vehicle at the right time

Charge: Mon 14 Aug

CO2 emissions per km

What do we do for some of our customers?

Universities / NGOs

Analytics and historical data for universities / NGO / journalists to publish **reports** on the decarbonisation of the electricity sector

EVs / radiators

Live data feed to engage electric vehicles drivers & smart radiator owners to participate in **smart-charging** (minimizing CO_2 impact)

Elec. Retailers

Live data feed and **in-app visualizations** to engage electricity-retailers customers informing them of carbon footprint

Datacenter

Short-term **forecasts** of **marginal** signals enabling **datacenters** to research optimization of their operations and enable

Blockchain

Live data feed to enable a flexibility-reward system based on blockchain