

A fair and just transition, through the new green industries

Jeff Rogers, Deeside CAN

Ten people airlifted to safety after torrential rain in Scotland causes flooding

Warnings in place amid landslides and cancelled train services, with a month's worth of rain in 36 hours expected in some areas



📷 People try to pass a flooded street in Dumbarton, Scotland, on Saturday.
Photograph: Jeff J Mitchell/Getty Images

'Gobsmackingly bananas': scientists stunned by planet's record September heat

The carbon emissions driving the climate crisis and rapid arrival of an El Niño event are to blame, researchers say



📷 It's all but certain 2023 will be the hottest year on record. Photograph: Matthew Thayer/AP

The Triple Challenge - We Must:

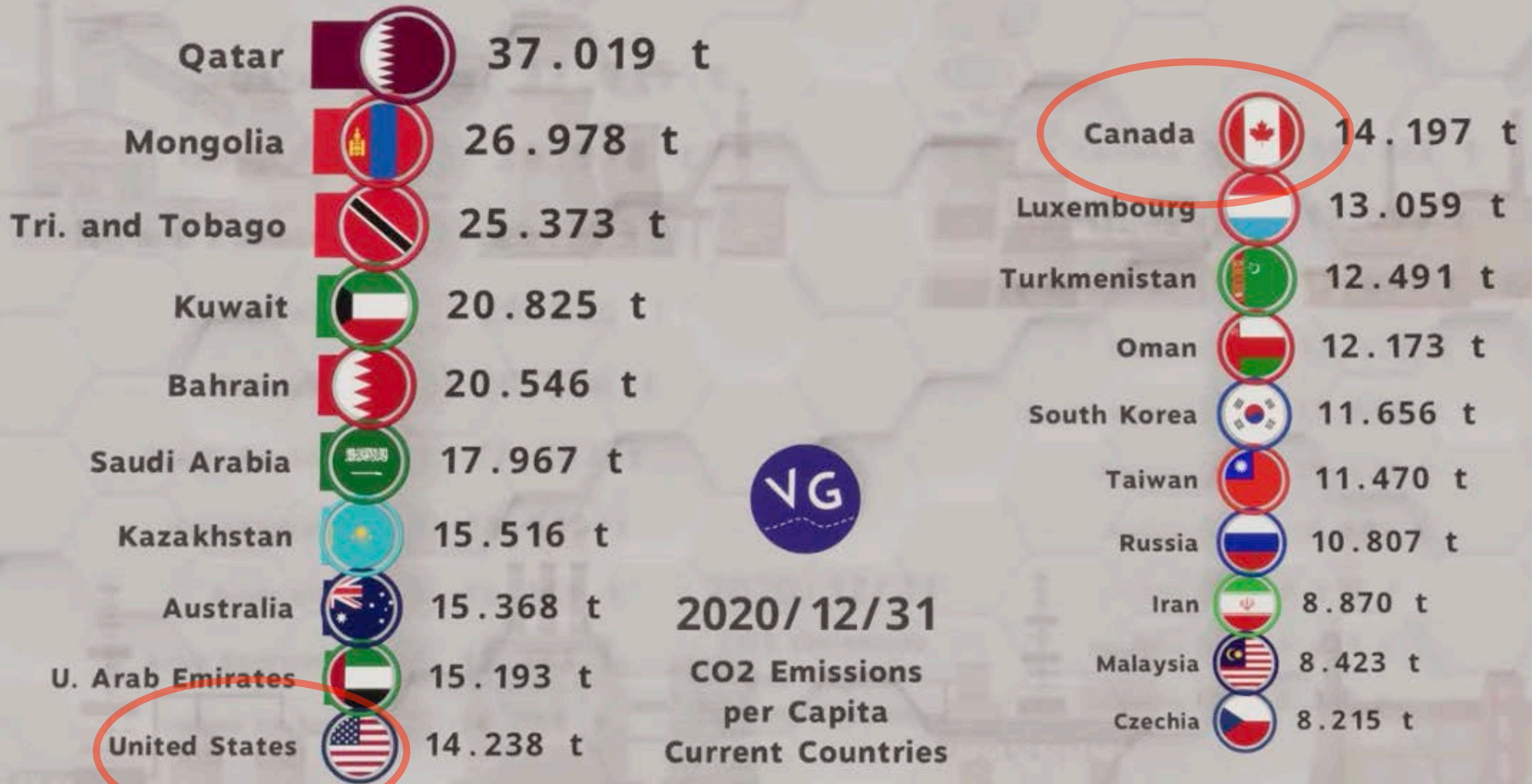
1. Stop Adding Carbon

2. Adapt to Extreme Weather

3. Remove the Carbon



**We have
the solutions
at hand...**



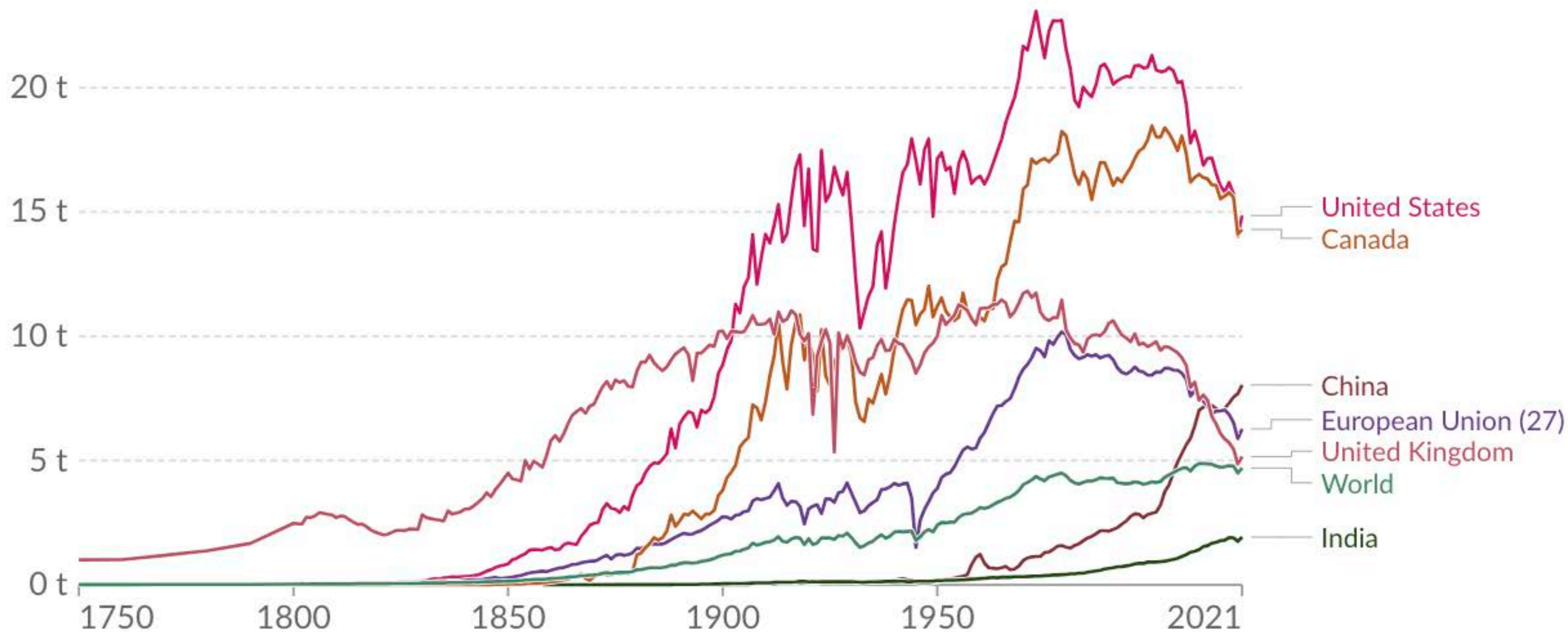
Per capita CO₂ emissions

Carbon dioxide (CO₂) emissions from fossil fuels and industry. Land use change is not included.

Table | Map | Chart

Edit countries and regions

Settings



1750

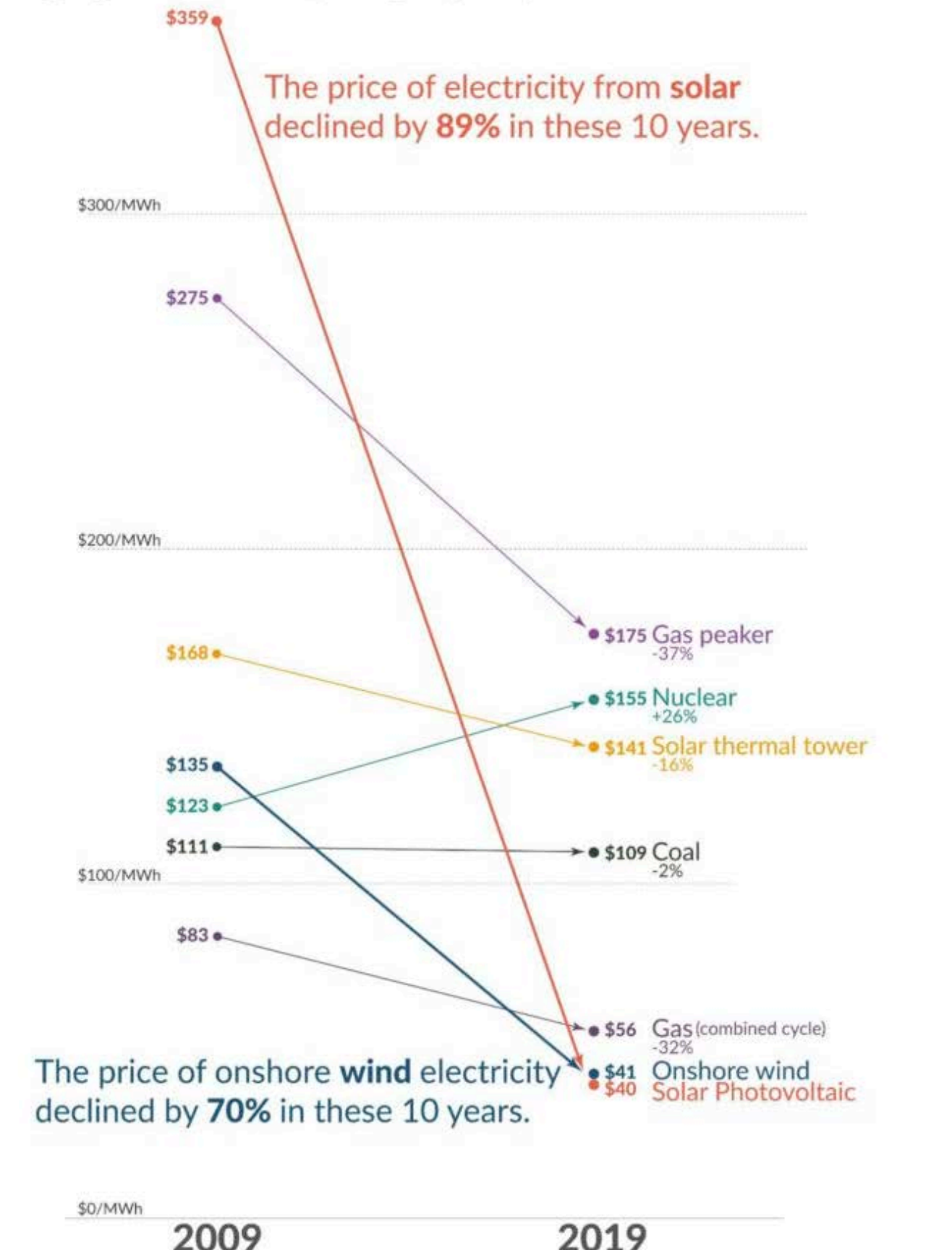


2021

Data source: Global Carbon Budget (2022); Population based on various sources (2023) - [Learn more about](#)

The price of electricity from new power plants

Electricity prices are expressed in 'levelized costs of energy' (LCOE). LCOE captures the cost of building the power plant itself as well as the ongoing costs for fuel and operating the power plant over its lifetime.



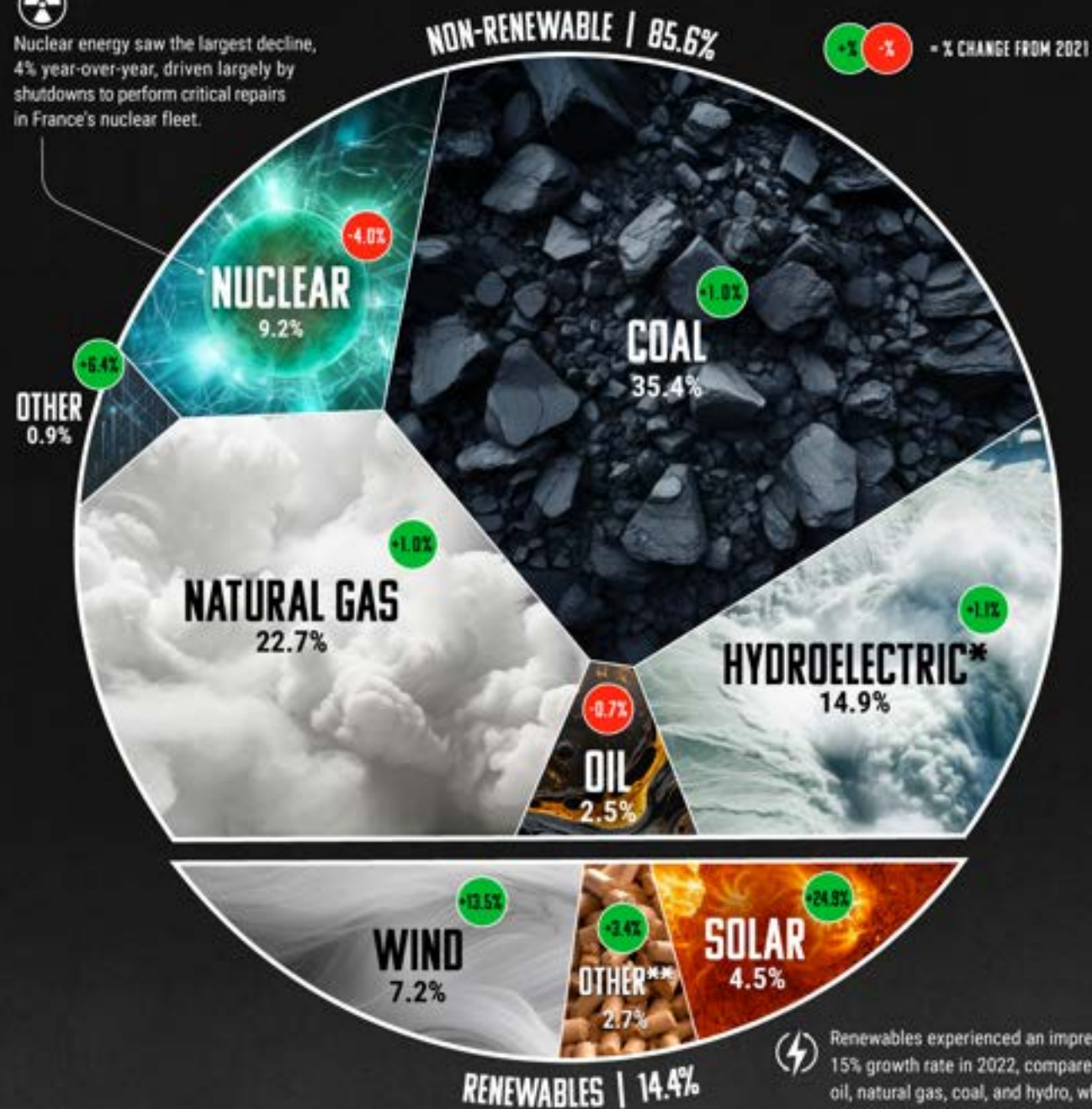
WHAT POWERED THE WORLD ⚡ IN 2022?

Coal still leads the charge when it comes to electricity, representing 35% of global power generation in 2022, followed by natural gas at 23%, and hydroelectric at 15%.

ELECTRICITY SOURCES BY FUEL 2022



Nuclear energy saw the largest decline, 4% year-over-year, driven largely by shutdowns to perform critical repairs in France's nuclear fleet.



*The Statistical Review excludes hydroelectric energy in their renewable calculations; renewables, including hydro, represented 29% of global electricity generation in 2022.

** Other Renewables includes geothermal, biomass, and other renewable fuels.



Key: Very High - High - Moderate - Low - Very Low

North Scotland

Current Carbon Intensity

0

gCO₂/kWh



80% wind

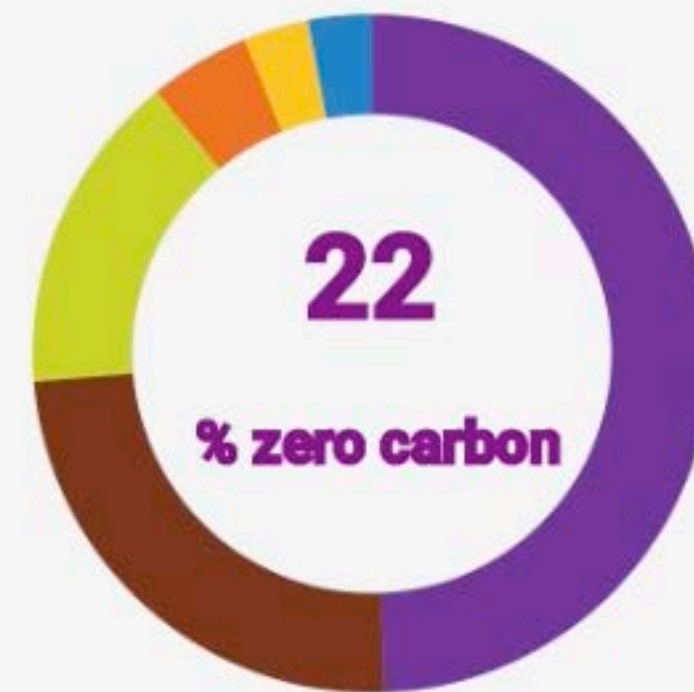
20% water

East Midlands

Current Carbon Intensity

223

gCO₂/kWh



49% gas

24% biomass

15% wind

5% imports

3% solar

3% nuclear

11th October 2023 c. 3pm



Photo by Abby Anaday on Unsplash

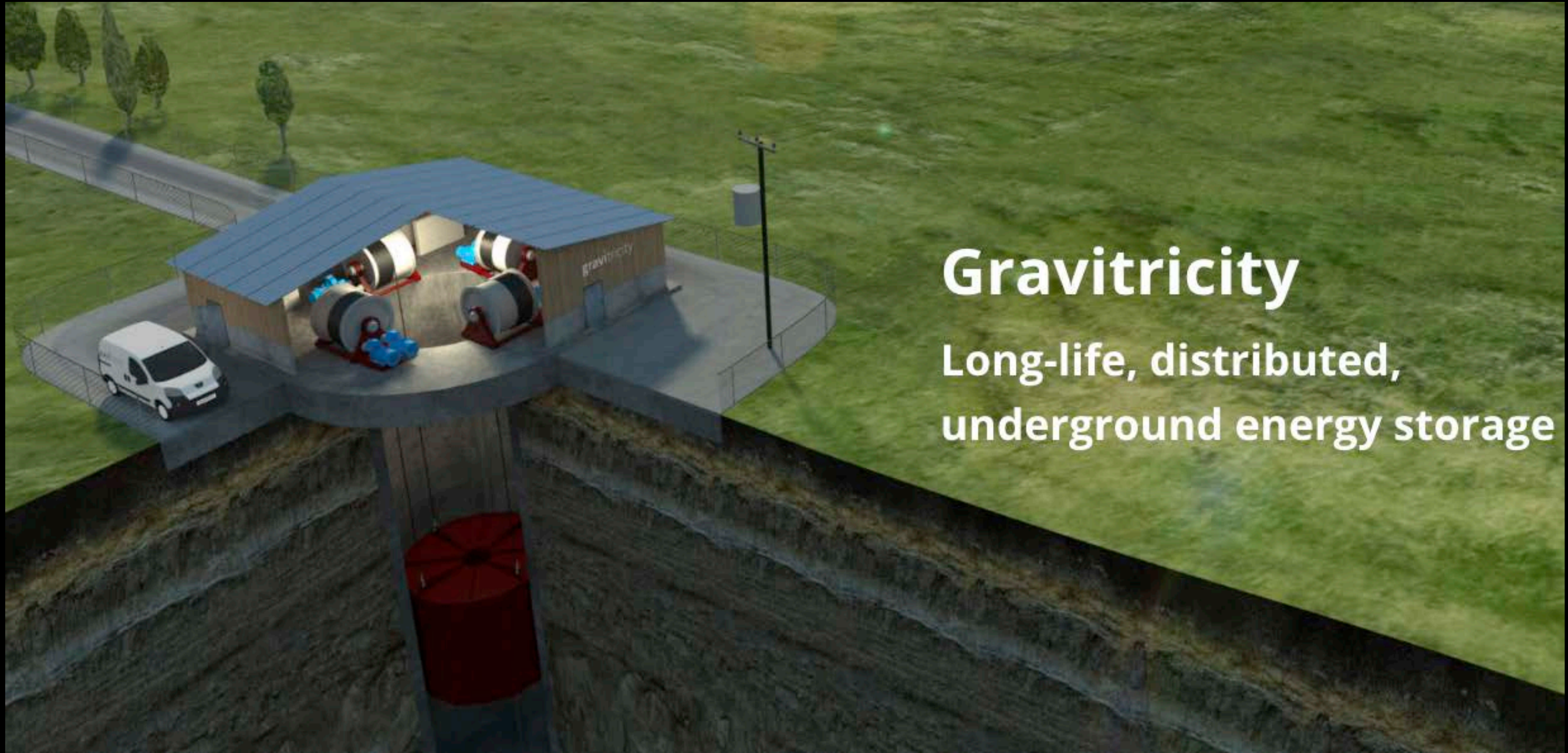












Gravitricity

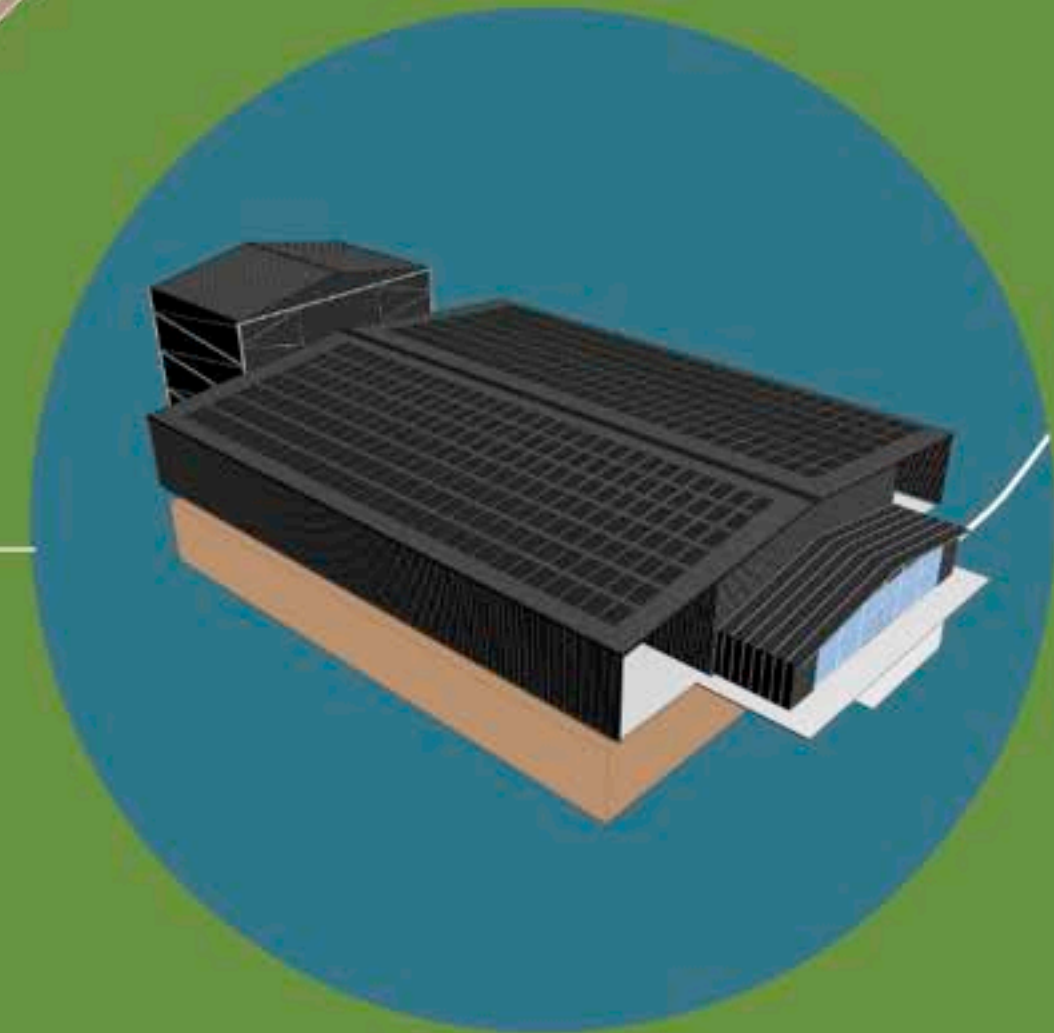
Long-life, distributed,
underground energy storage





Contact V-FAST

Please direct any enquiries to info@ukuat.org



V•FAST

Demand Side Response





WIRELESS

RETRO-FITTED

INTELLIGENT

NO BATTERY

NO MAINTENANCE



ecosync



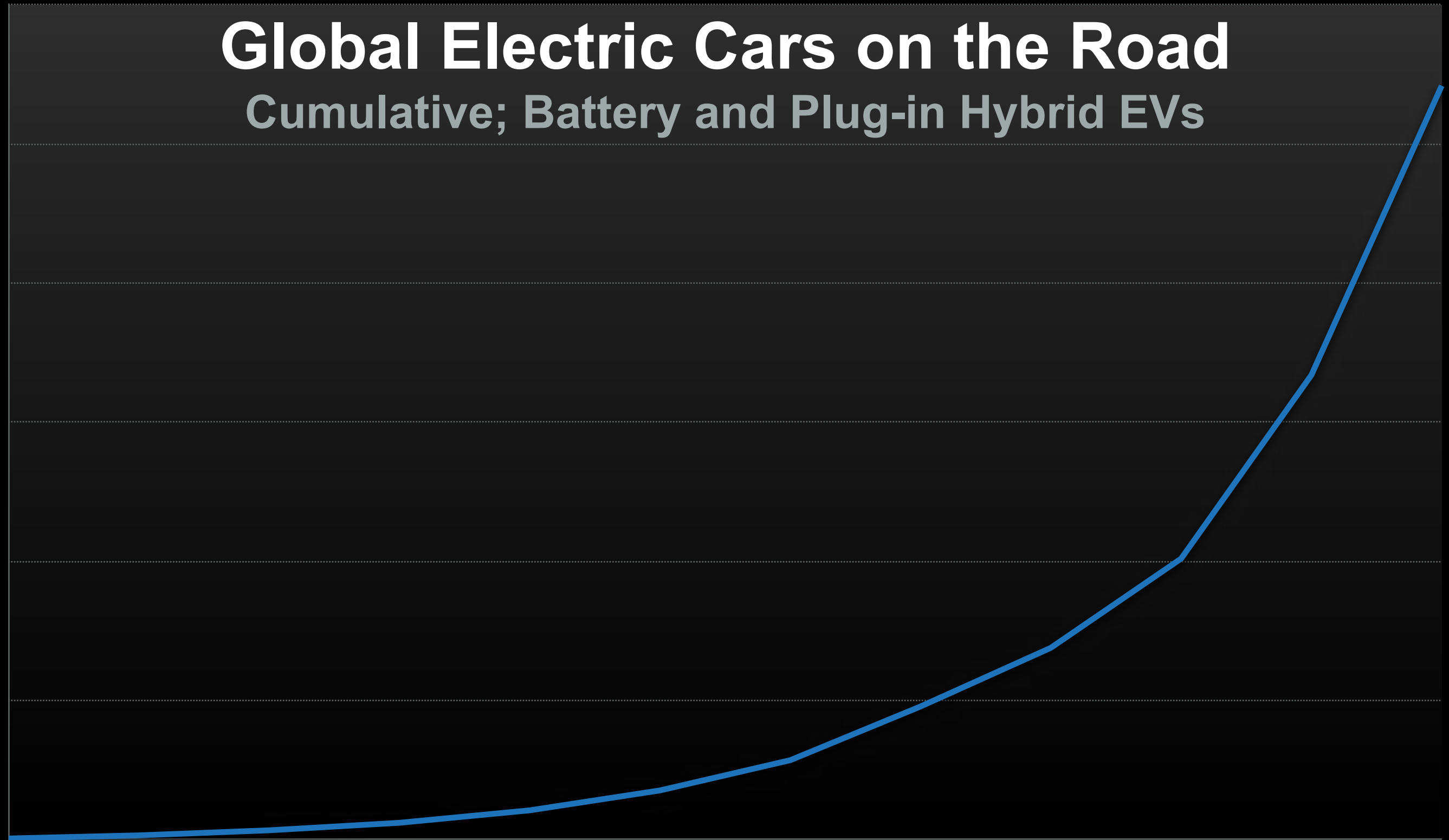
Global Electric Cars on the Road

Cumulative; Battery and Plug-in Hybrid EVs

Electric Car Stock (Millions)

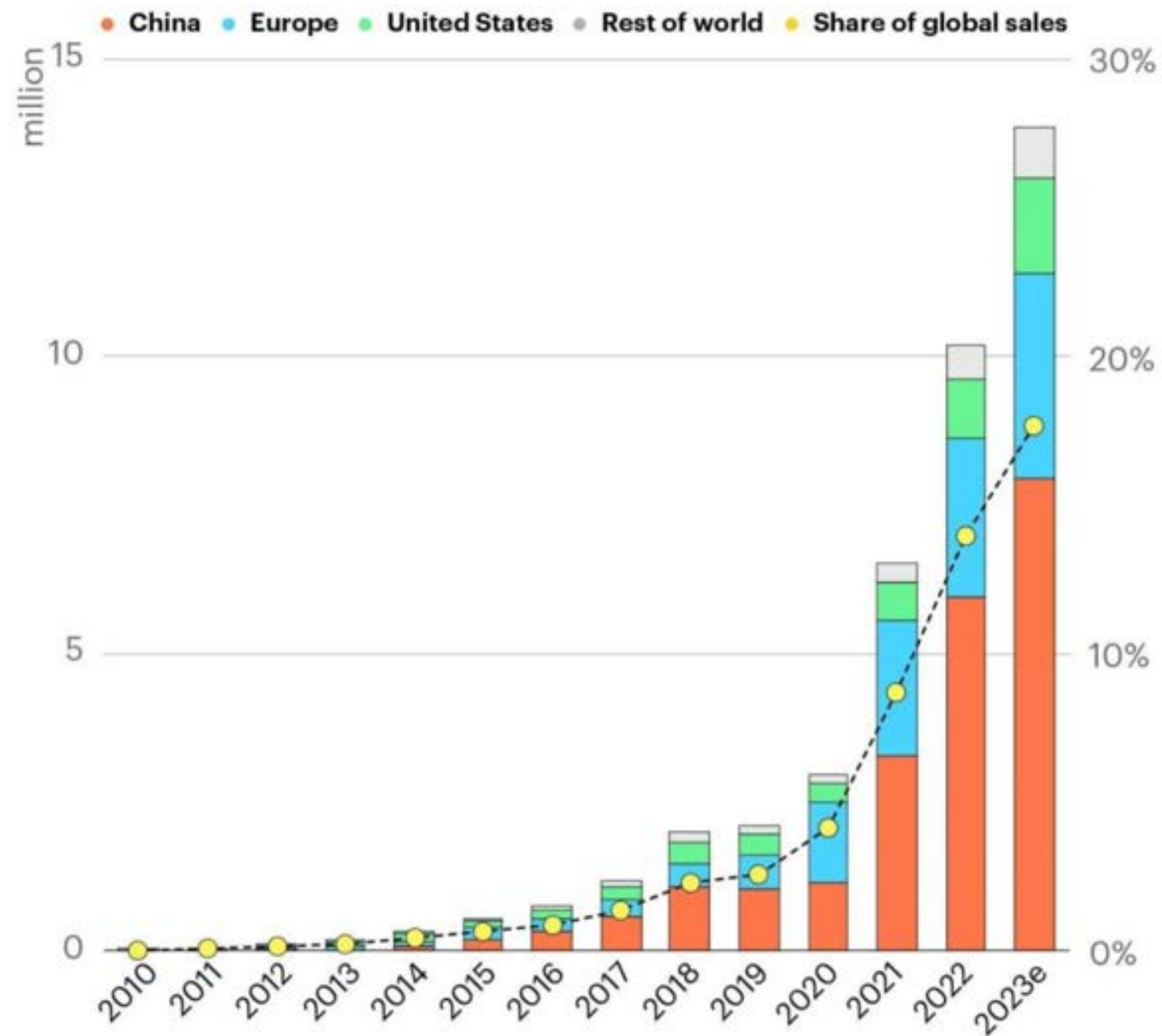
30 M
25 M
20 M
15 M
10 M
5 M

2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022



Electric cars are booming – global sales are on course to jump 35% this year to 14 million

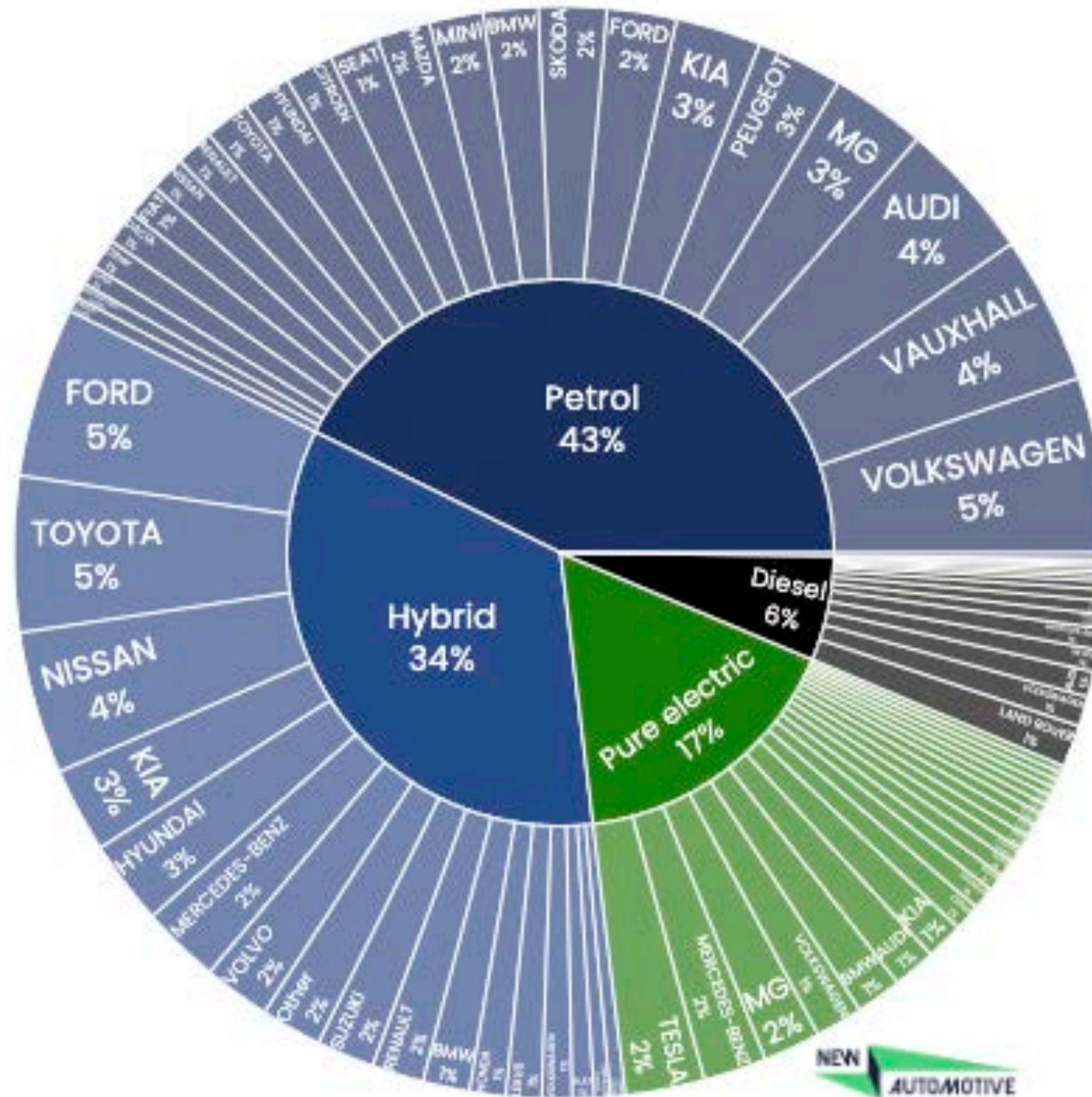
Global electric car sales and share of global car sales, 2010-2023e



Note: e = estimated

International Energy Agency

September 2023 new car market share





**There are over 1,000
electric buses in London**

(and 46 in Aberdeen)





**A new company, Ember,
has started electric bus
services between Dundee
and Edinburgh and
Glasgow**

(but not yet Aberdeen)



**Aberdeen *does* have
electric buses!**

(46 of them)



V22568

ZERO EMISSIONS
THIS TRUCK IS POWERED BY
100% RENEWABLE ENERGY

NEW BERN TRANSPORT COMP
US DOT 692947
CA 173519
GVW 82,000

C22803

ZERO EMISSIONS
THIS TRUCK IS POWERED BY
100% RENEWABLE ENERGY

NEW BERN TRANSPORT COMP
US DOT 692947
CA 173519
GVW 82,000

V22563

ZERO EMISSIONS
THIS TRUCK IS POWERED BY
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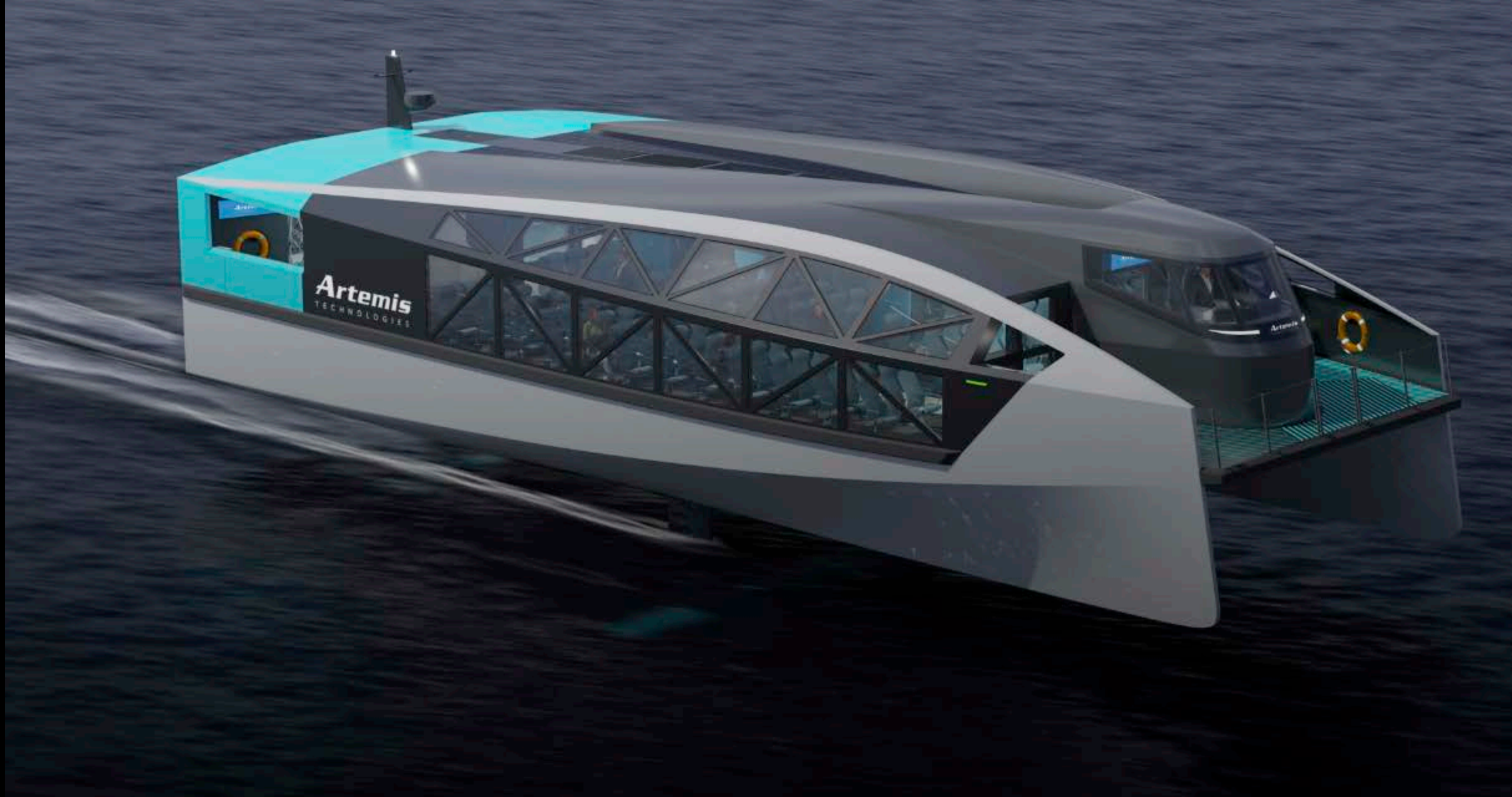
NEW BERN TRANSPORT COMP
US DOT 692947
CA 173519
GVW 82,000

V22569

ZERO EMISSIONS
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NEW BERN TRANSPORT COMP
US DOT 692947
CA 173519
GVW 82,000





ARTEMIS

EF-24 PASSENGER

36kts

Top Speed

95nm

Range at 25kts

3

Crew

150

Passengers

[Enquire Now](#)





With up to 60 times greater specific energy and lower cycling costs than lithium-ion batteries and numerous advantages over all other decarbonisation solutions, hydrogen-electric powertrains are the only viable, scalable solution for zero-emission aviation.







AIR SOURCE HEATING SYSTEM

Up to £9,000 Grant