IN A NUTSHELL

WHY INVEST IN RENEWABLE ENERGY

OUR WORLD IS ADDICTED TO FOSSIL FUELS

From the lighting in our homes to the fuel in our cars, the energy we use in our daily lives is primarily powered by fossil fuels — the main driver of climate change.

Almost

80%

Energy derived from fossil fuels

Around

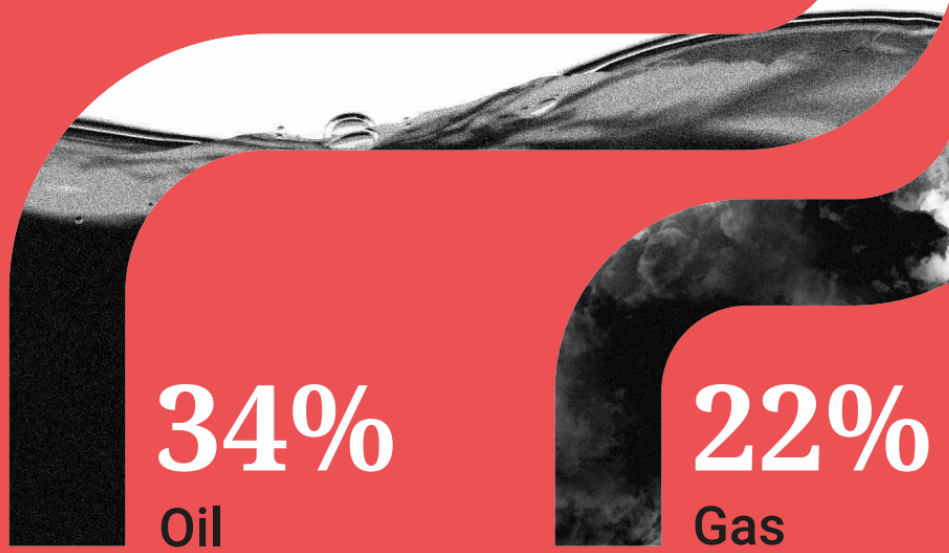
13%

Energy derived from renewable sources

FOSSIL FUELS = GREENHOUSE GASSES = A WARMER PLANET

The energy sector is the largest contributor to global greenhouse gas emissions primarily due to burning fossil fuels with coal (42%) being the biggest emitter.

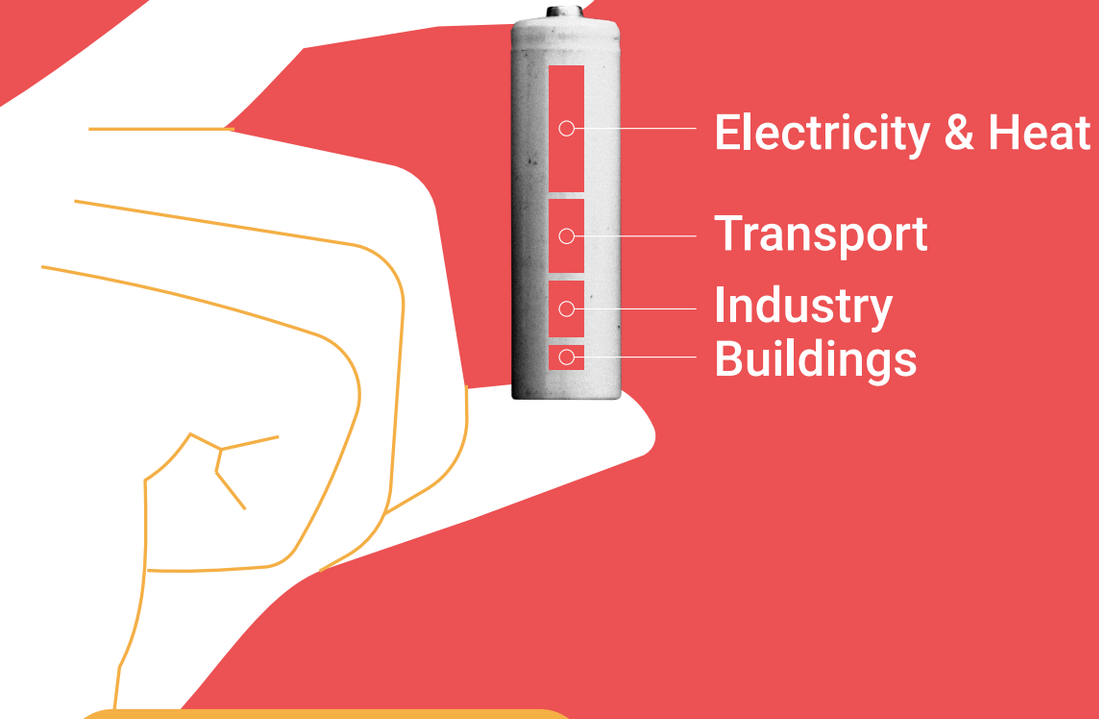
42%
Coal



34%
Oil

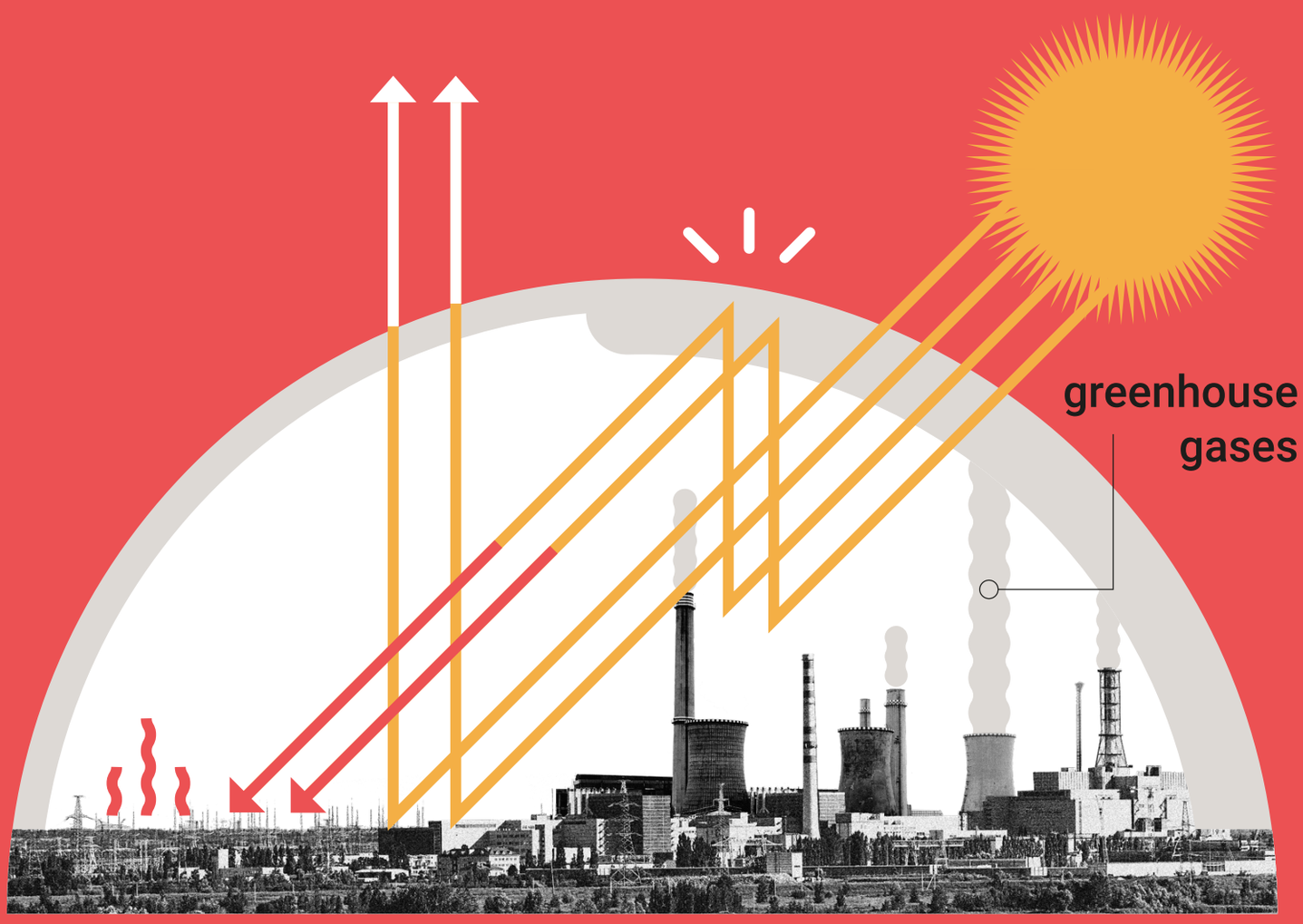
22%
Gas

Energy sectors responsible for the most emissions

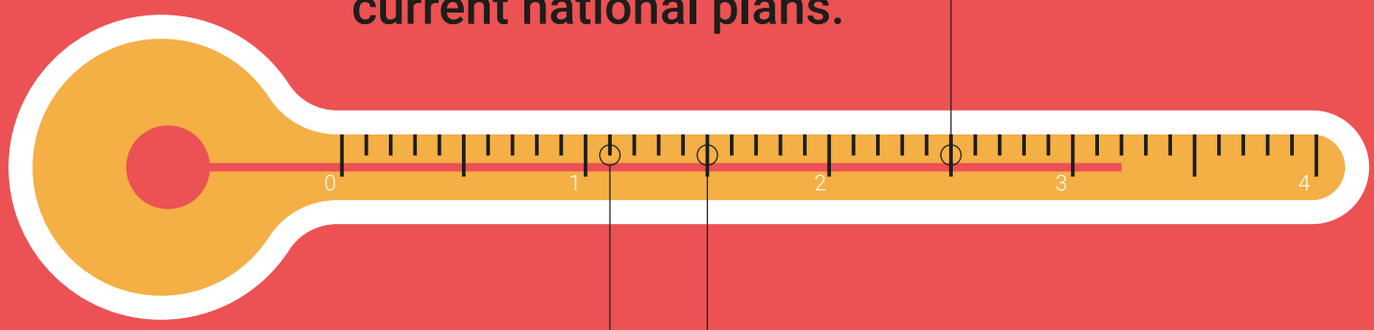


GLOBAL WARMING

Burning fossil fuels releases large amounts of carbon dioxide, a greenhouse gas, into the air. Greenhouse gasses blanket the Earth and trap the sun's heat, warming the planet.



2.5°C
Rise in global temperature by the end of the century based on current national plans.



1.1°C
How much the Earth's surface has warmed since the late 1800s.

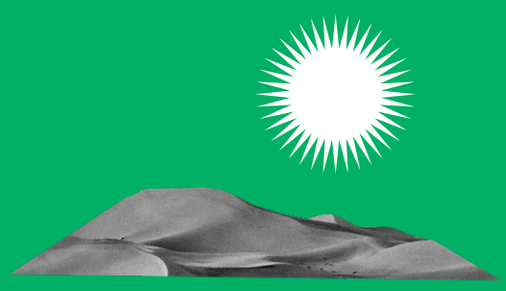
1.5°C
The max we need to limit global temperature rise to avoid the worst climate impacts.

THE DOMINO EFFECT

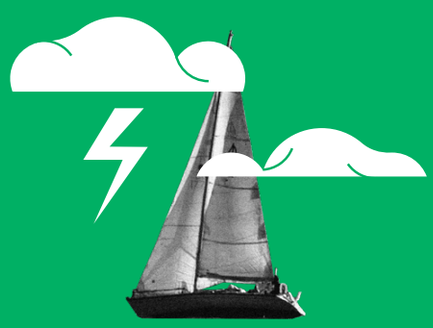
Every fraction of a degree matters. A warming planet is only the beginning of the story. So, what's behind a degree?

A WARMER PLANET = MORE EXTREME WEATHER EVENTS

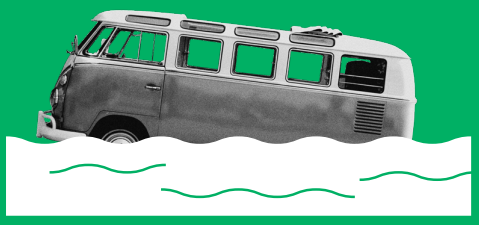
heatwaves



droughts



storms



floods

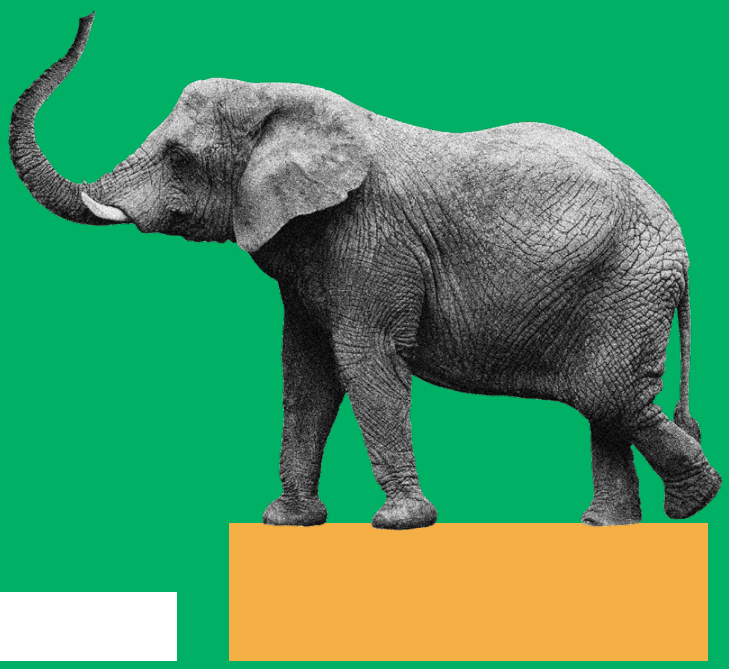
tsunamis

tornadoes

A WARMER PLANET = LOSS OF HABITATS

41%
of mammals
lose half
their habitat

8%
of mammals
lose half
their habitat



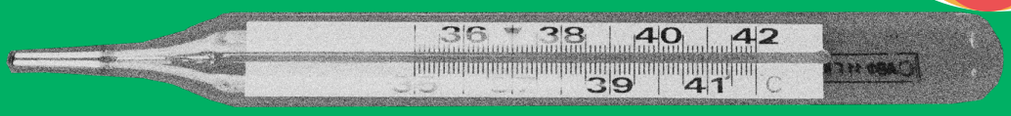
4%
of mammals
lose half
their habitat

1.5 °C **2 °C** **4.5 °C**

A WARMER PLANET = HEALTH RISKS & DEATHS

13 million+

Lives lost every year due to environmental factors, including air pollution



A WARMER PLANET = DISPLACEMENT

23 million+

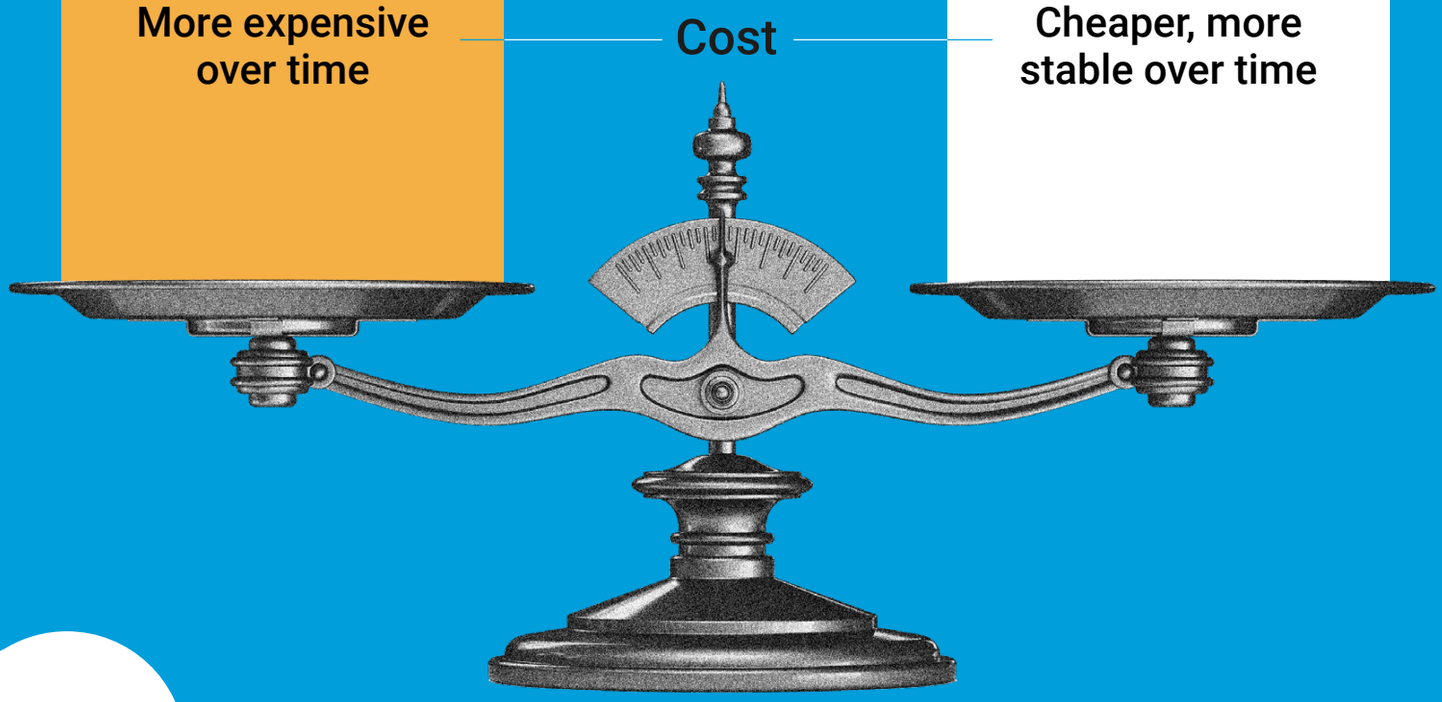
People on average displaced each year due to weather-related events

AND THE DOMINO EFFECT CONTINUES...

POWER UP WITH RENEWABLE ENERGY

To avoid the worst fallout of climate change, we must drastically reduce our greenhouse gas emissions. Renewable energy can help us get us there...and come with many benefits.

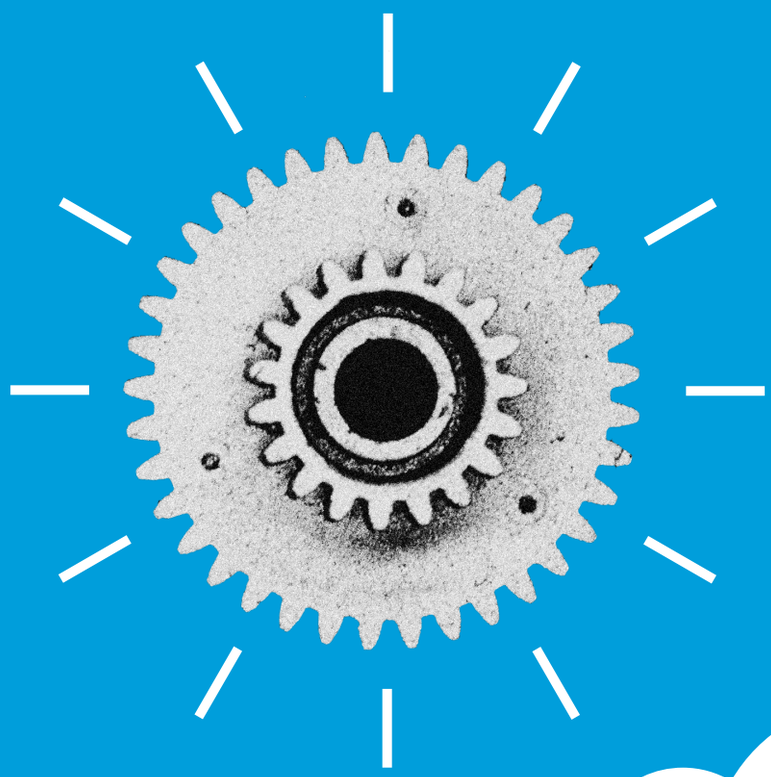
FOSSIL FUELS		RENEWABLE ENERGY
Oil, Coal, Gas	Types	Solar, Wind, Geothermal, Hydropower, Ocean energy
Fossilized remains of plants and animals	Origins	Naturally renewable resources
Millions of years	Time to form	Constantly self-replenishing
Limited	Available supply	Abundant
Very high	Carbon content	Virtually none
More global warming, market shocks, loss and damage	Long-term outlook	More jobs, saved lives, healthier planet and people



SOLAR SPOTLIGHT

Rain or shine

Solar energy, the most abundant of all energy resources, can even be harnessed in cloudy weather.



85%

How much the cost of solar power fell between 2010 and 2020.

10,000x

The rate at which solar energy strikes the

Earth is 10,000 times greater than the rate at which humankind consumes energy!

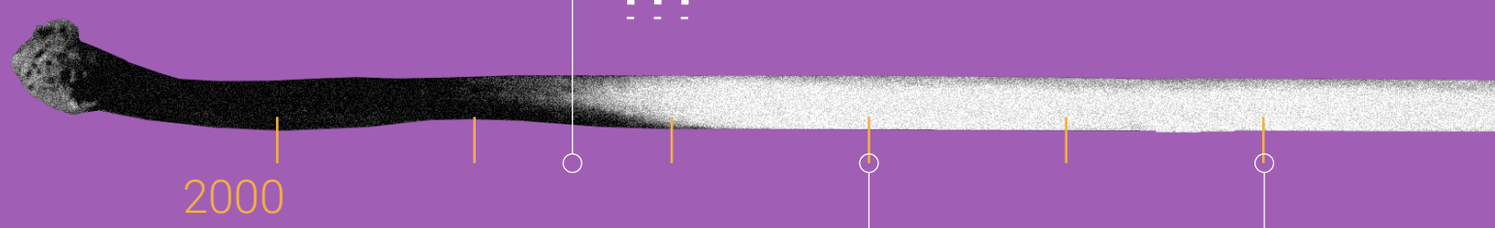
NO TIME TO LOSE: FLIP THE SWITCH

Making the transition to renewable energy is entirely possible. However, bold actions and investments are needed if we are to meet our goal.

OUR GOAL

2015

Under the Paris Agreement, world leaders agree to limit global warming to 1.5 °C



2030

Cut greenhouse emissions by nearly half of what it is today

2050

Reach net-zero. i.e. Cut greenhouse gas emissions to as close to zero

THE BARRIERS

USD 5.9 trillion

Amount spent subsidizing the

fossil fuel industry in 2020.
Fossil-fuel subsidies remain one of the biggest financial barriers in the world's shift to renewable energy.

THE RETURN ON INVESTMENT

USD 26 trillion

Economic benefits by 2030 from bold climate action

THE INVESTMENT

USD $4 trillion

Investment needed annually in renewable energy by 2030 to reach net-zero emissions by 2050.

WE HAVE THE POWER TO ACT NOW

The renewable energy sector is growing and innovative solutions are on the horizon. Our collective actions will benefit generations to come. We must all act now.

Enable universal access

- Provide affordable green energy
- Build energy-efficient buildings
- Transition to electric vehicles
- Increase eco-friendly public transport options

Educate

- Drive carbon-literacy awareness

- Counter misinformation

Innovate

- Remove intellectual property barriers
- Strengthen cross-sector collaboration

Shift the money

- Phase out fossil fuel subsidies
- Fast-track solar and wind projects
- Increase supply of renewable energy components

FLIPPING THE SWITCH IS POSSIBLE!

ICELAND

Almost 100% of electricity comes from renewable sources.

MALAWI

Solar grids are supplying electricity for essential services, including water purification, hospitals and schools.

CHILE

The first country in South America to champion the use of geothermal energy, now heating and cooling homes and schools, and powering greenhouses and fish farms.

CAMBODIA

Solar-based mini-grids are powering rural communities previously without electricity.

ACT NOW