# An Action Plan for Solving Our Climate Crisis Now

What we need to do to cut emissions to <u>net zero</u>—and how we can do it in time.





# **Turn Movements Into Action**



10.0 Invest!



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## An Action Plan for Solving **Our Climate Crisis Now**

**Solutions** 

## **Electrify Transportation** 1.0 Reduce 8 gigatons of transportation emissions to 2 gigatons by 2050. KR 1.1 Price Achieve global price parity between EVs and gas-powered vehicles by top emitters by 2030. KR 1.2 Cars Increase EV sales to 50% of all new car sales by 2030, 95% by 2040. KR 1.3 Buses Electrify all new buses by 2030. KR 1.4 Trucks Increase sales of zero-emissions medium and heavy trucks to 30% of all new truck sales by 2030; 95% by 2045. KR 1.5 Miles Increase miles driven by electric vehicles (two- and three-wheelers, cars, buses, and trucks) to 50% of the global total by 2040, 95% by 2050. ↓5Gt KR 1.6 Planes Increase low-carbon fuel for aviation to 40% by 2040 **↓ 0.3 Gt** Maritime KR 1.7 Deploy low-carbon fuel for 5% of maritime shipping by 2030; zero out emissions for the shipping industry by 2050.

**↓ 0.6 Gt** 

## 4.0 Protect Nature

Go from 6 gigatons of emissions to -1 gigatons by 2050.

#### VD 4 1 Га

KR 4.1	Achieve net zero deforestation by 2030; end logging and other destructive practices in primary forests. ↓ 6 Gt
KR 4.2	Oceans Protect 30% of oceans by 2030, 50% by 2050. ↓1 Gt
KR 4.3	Lands Expand protected lands to 30% by 2030, 50% by 2050.

## Stop the build-out of new coal and gas plants immediately; retire or zero out emissions from existing plants by 2040.\* KR 2.5 Methane **↓**3 Gt Heating and Cooking KR 2.6

KR 2.1

KR 2.2

KR 2.3

KR 2.4

Cut fossil fuels for heating and cooking in half by 2040.\* ↓ 1.5 Gt

### KR 2.7 **Clean Economy**

Triple the ratio of GDP to fossil fuel consumption.

## 3.0 Fix Food

Reduce agricultural emissions from 9 gigatons to 2 gigatons by 2050.

KR 3.1	Farm Soils Improve soil health by increasing carbon content in topsoils to a minimum of 3% by 2035. ↓ 2 Gt
KR 3.2	Fertilizers Stop overuse of nitrogen-based fertilizers and develop cleaner alternatives to cut emissions in half by 2050. ↓ 0.5 Gt
KR 3.3	Cows Cut emissions from beef and dairy by 25% by 2030, 50% by 2050. ↓ 3 Gt
KR 3.4	Rice Reduce methane and nitrous oxide from rice farming by 50% by 2050. ↓ 0.5 Gt
KR 3.5	Food Waste Cut food waste to 10% by 2050.

## 5.0 **Clean Up Industry**

**Reduce 12 gigatons of industrial** emissions to 4 gigatons by 2050.

### Steel KR 5.1

Reduce emissions from steel production 50% by 2030, 90% by 2040. **↓ 3 Gt** 

## KR 5.2 Cement

Reduce emissions from cement production 25% by 2030, 90% by 2040. ↓ 2 Gt

## KR 5.3 Other Industries

Reduce emissions from other industrial sources (primarily plastics, chemicals, paper, aluminum, glass, and apparel) 60% by 2050. **↓**3 Gt

# 6.0 Remove Carbon

**↓1G** 

Remove 10 gigatons of carbon dioxide per year.

KR 6.1	Nature-Based Removal Increase carbon removal by at least 3 gigatons per year by 2030 and 5 gigatons by 2040. ↓ 5 Gt
KR 6.2	<b>Engineered Removal</b> Remove at least 1 gigaton per year by 2030 and 5 gigatons by 2050.

Accelerants

## 7.0 Win Politics and Policy

## KR 7.1 Net Zero Pledges

The five top emitters' heads of state say their coun-
tries will reach net zero by 2050.*

## KR 7.2 Action Plans

The five top emitters are on track to cut emissions in half by 2030.

### KR 7.3 **Carbon Price**

National prices on greenhouse gases are set

## **8.0 Turn Movements Into Action**

#### KR 8.1 Voters

The climate crisis becomes a top-three issue.

#### KR 8.2 Government

A majority of key government officials support the drive to net zero

#### KR 8.3 Business

100% of Fortune Global 500 companies commit to reach net zero by 2050.

## 9.0 Innovate!

**↓ 5 Gt** 

(R 9.2	Electricity
	<b>Batteries</b> 10,000 GWh of batteries are produced annually at less than \$80 per kWh by 2035.
(R 9.1	

The cost of zero-emissions baseload power drops to \$0.02 per kWh by 2030.

## KR 9.3 Green Hydrogen

The cost of producing hydrogen from

#### On Achieved Insufficient Failing Code Limited Track Red Progress Data

# Reduce flaring and eliminate leaks and venting from coal, oil, and gas sites by 2030.

below \$10 per kWh by 2030.

10 objectives and 49 key results to cut emissions to net zero by 2050

2.0 Decarbonize the Grid

Zero Emissions

Solar and Wind

↓ 16.5 Gt

by 2025.

Storage

Coal and Gas

Reduce 24 gigatons of global electricity and

Tap emissions-free sources to generate 50% of electricity worldwide by 2026, 90% by 2035.\*

Make the cost of solar and wind lower than fossil fuels

Reduce the cost of short-duration electricity storage

to less than \$50 per kWh by 2028 and the cost of

long-duration electricity storage (up to 30 days)

heating emissions to 3 gigatons by 2050.

at a minimum of \$75/ton, rising 5% annually

#### KR 7.4 Subsidies

Eliminate direct subsidies to fossil fuel companies.

#### KR 7.5 Methane

The top five emitters pledge to control flaring, prohibit venting, and mandate prompt capping of methane leaks

#### Refrigerants KR 7.6

The top five emitters commit to phasing out hydrofluorocarbons (HFCs).

#### KR 8.4 Education Equity

The world achieves universal education through ninth grade by 2040.

#### KR 8.5 Health Equity

The world eliminates pollution-linked mortality by 2040.

#### KR 8.6 **Economic Equity**

The global clean energy transition creates 65 million new jobs by 2040.

## zero-emissions sources drops to \$2 per kg by 2030, \$1 per kg by 2040.

#### KR 9.4 Carbon Removal

The cost of engineered carbon dioxide removal falls to \$100 per ton by 2030, \$50 per ton by 2040.

#### **Carbon-Neutral Fuels** KR 9.5

The cost of synthetic fuel drops to \$2.50 per gallon for jet fuel and \$3.50 for gasoline by 2035.

## 10.0 Invest!

## KR 10.1 Financial Incentives

Global government support and incentives for clean energy expand to \$600 billion per year.

## KR 10.2 Government R&D

Public investment in sustainability research and development increases to \$120 billion per year.

## KR 10.3 Venture Capital

Private investment into cleantech startups totals \$50 billion per year.

## KR 10.4 Project Financing

Clean energy project financing rises to \$1 trillion per year.

## KR 10.5 Philanthropic Investing

Philanthropic dollars for tackling emissions grow to \$30 billion per year.

\*This timeline applies to advanced economies. For emerging economies, this key result may require an additional five to ten years.

April 2025 Update: Track progress and take action by visiting speedandscale.com

