

SITRA

Scaling up just 17
low-carbon solutions
can go a long way
towards closing
the emissions gap.

*Green
to
Scale*

LOW-CARBON SUCCESS STORIES
TO INSPIRE THE WORLD

It can be done

We already have the tools available to cut emissions – the know-how and experience of 36 countries that have successfully reduced emissions.

We have the solutions

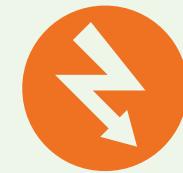
Scaling up just 17 climate solutions could cut current global emissions by a quarter by 2030. This is equivalent to the total emissions of China and Japan combined.

Global partnership

Organisations from 10 countries have partnered with the Finnish Innovation Fund Sitra. The project Green to Scale has uncovered proven and attractive solutions to tackle the climate crisis.

Countries can do more

The results of the project can help countries to meet, improve and go beyond their national climate commitments – and at the same time lead to better health, more jobs and improved energy access.



RENEWABLE ENERGY

1 Solar water heating in China

If similar countries used solar water heating as much as China already does, it would reduce emissions more than Belgium produces in a year.

Save
136
Mt CO₂/year



TRANSPORT

6 Vehicle fuel efficiency in the EU

If all countries improved car fuel efficiency as much as the EU has already done, it would reduce emissions almost as much as Saudi Arabia produces in a year.

Save
525
Mt CO₂/year



BUILDINGS AND HOUSEHOLDS

2 Grid solar power in Germany

If all countries used solar power as much as Germany already does, it could reduce emissions more than Russia and Canada combined produce in a year.

Save
3,197
Mt CO₂/year



INDUSTRY

3 Off-grid solar power in Bangladesh

If similar countries used off-grid solar power as much as Bangladesh has already done, it would reduce emissions as much as Malta produces in a year.

Save
3
Mt CO₂/year



AGRICULTURE AND FORESTS

4 Wind power in Denmark and Brazil

If all countries used wind power as much as Denmark and Brazil already do, it could reduce emissions more than the UK and France combined produce in a year.

Save
1,018
Mt CO₂/year

5 Bioenergy for heating in Finland

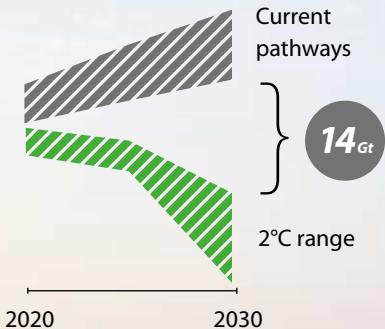
If similar countries used bioenergy for heating as much as Finland already does, it could reduce emissions more than Bangladesh produces in a year.

Save
193
Mt CO₂/year

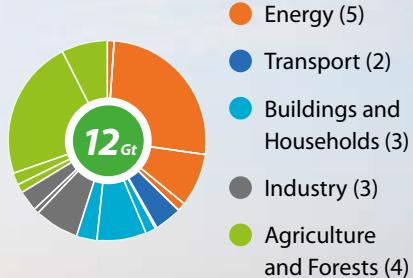


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Emission targets fall short of what is needed to limit global warming to below the risk limit of 2°C



Scaling up 17 proven low-carbon solutions would reduce global emissions by 12 Gt by 2030



Read more at greentoscale.net
Contact: greentoscale@sitra.fi
Engage: #GreenToScale



In co-operation with Alberto Luiz Coimbra Institute for Graduate Studies and Research in Engineering (COPPE), Brazil | Centro Mexicano de Derecho Ambiental (CEMDA), Mexico | Ethiopian Development Research Institute (EDRI) | European Climate Foundation (ECF), the Netherlands | Institute for Global Environmental Strategies (IGES), Japan | International Finance Corporation (IFC) of the World Bank Group | Masdar Institute, the United Arab Emirates | Renmin University of China | Stockholm Environment Institute (SEI), Sweden | UNEP DTU Partnership, Denmark | World Resources Institute (WRI), USA

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