# 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

### 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 guarter 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

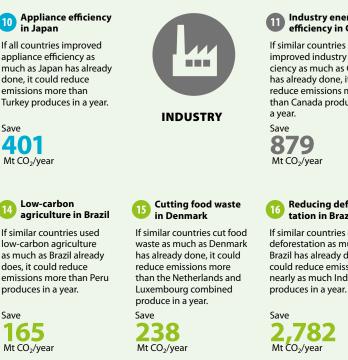
The results of the project can help countries to meet, improve and go beyond their national climate commitments – and at the same time lead to better health, more jobs and improved energy access.



RENEWABLE ENERGY



TRANSPORT





Save

If all countries used

solar power as much as

Germany already does,

sions more than Russia

it could reduce emis-

produce in a year.

197

**Bus rapid transit** 

in Colombia

Mt CO<sub>2</sub>/year

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

Save 136 Mt CO<sub>2</sub>/year

Solar water

heating in China

#### Vehicle fuel efficiency in the EU

If all countries improved If similar countries used car fuel efficiency as much bus rapid transit as much as Colombia already does, it could reduce emissions emissions almost as much as much as Norway as Saudi Arabia produces produces in a year.



Industry energy efficiency in China

improved industry efficiency as much as China has already done, it could reduce emissions more than Canada produces in

Mt CO<sub>2</sub>/year

**Reducing defores**tation in Brazil

If similar countries cut deforestation as much as Brazil has already done, it could reduce emissions nearly as much India produces in a year.



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.



Denmark and Brazil



**BUILDINGS AND** 

HOUSEHOLDS

Industrial electric

motors in the US

improved the efficiency of

done, it could reduce emis-

sions more than Romania

**Reforestation and** 

afforestation in Costa Rica

If similar countries restored

done, it could reduce emis-

Canada produces in a year.

forest cover as much as

sions nearly as much as

Costa Rica has already

industry motors as much

as the USA has already

produces in a year.

Mt CO<sub>2</sub>/year

If similar countries

12

Save

Save

Mt CO<sub>2</sub>/vear

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

Wind power in



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



Improved cook

stoves in China

If similar countries used

efficient cook stoves as

emissions more than the

UK and France combined

AGRICULTURE

**AND FORESTS** 

much as China already

does, it could reduce

produce in a year.

Mt CO<sub>2</sub>/year

Save

93

Mt CO<sub>2</sub>/year

Germany and Mexico If similar countries improved building efficiency as much as Germany and Mexico have already done, it could reduce emissions as much as the Netherlands produces in a year.

**Building efficiency in** 

Save 206 Mt CO<sub>2</sub>/year

#### **Reducing fossil fuel** methane in the US

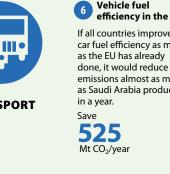
If similar countries cut emissions from oil and gas production as much as the USA has already done, it could reduce emissions as much as Turkey produces in a year.

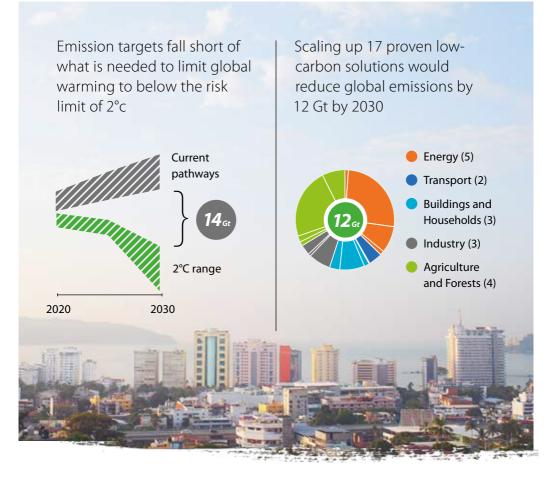
Save 388 Mt CO<sub>2</sub>/year



LOW-CARBON SUCCESS STORIES TO INSPIRE THE WORLD







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



LOW-CARBON SUCCESS STORIES TO INSPIRE THE WORLD 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

