

Net Zero Futures.

Engaging key stakeholders on your net zero emissions journey



in partnership with



Scottish Government
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**Bloomberg
Philanthropies**

October 2021

Agenda

Catalonia's approach

Salvador Samitier i Martí

Head of the **Catalan** Office for Climate Change, Ministry of Climate Action, Food and Rural Agenda

Q&A

Engaging businesses of all sizes around a net zero agenda

Lydia Elliot

Supply Chains Manager, WeMeanBusiness

Q&A

Chaired by Virginia Bagnoli, Senior Manager – Strategy and European Affairs, Climate Group

For interpretation from English to Spanish please click on the  icon on your Zoom controls.

Make sure you are muted to avoid background noise, but please do ask questions during the Q&A and in the chat box!

We will also launch a poll for everybody to respond to.

Net Zero Futures.

Net Zero Futures.

An initiative to mobilize
global **state and**
regional leadership on
net zero ambition





Now you can see who
joined the Race to Zero

Visit: <https://racetozero.unfccc.int/join-the-race/whos-in/>

WHO'S IN?
RACE TO ZERO

Net Zero Futures

Net Zero Futures Working Groups

A peer-to-peer support mechanism of smaller group sessions amongst governments to work through specific challenges and solutions for moving toward net zero emissions.

→ Fill in a short [application form](#) to join the groups!

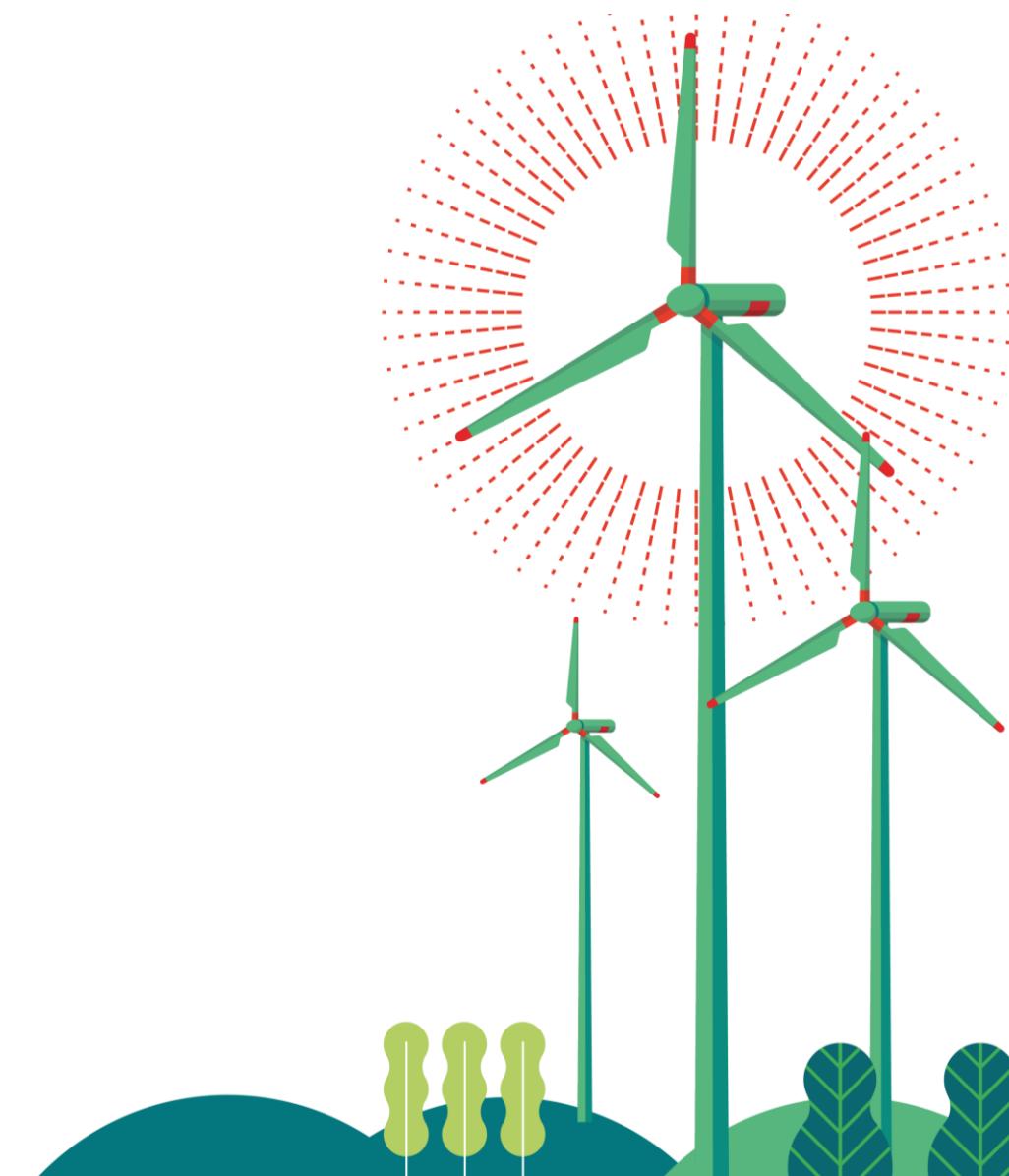
Net Zero Futures.



Topics:

- Managing push back for renewable energy installation
- Setting up local carbon offsetting schemes
- Identifying hard-to-abate or residual greenhouse gas emissions
- Approaching fossil fuel phase-out
- Setting up citizens' climate assemblies
- Complementing net zero emissions target with adaptation measures
- Developing a public engagement strategy on net zero

- Scotland, UK
- Baden-Württemberg, Germany
- Western Cape, South Africa
- Emilia-Romagna, Italy
- New Hampshire, USA
- Kymenlaakso, Finland
- Quintana Roo, Mexico
- Maharashtra, India
- Jalisco, Mexico
- Québec, Canada
- Jujuy, Argentina
- New York State, USA
- Wallonia, Belgium



First group: *Complementing net zero emissions target with adaptation measures*

- Baden-Württemberg (Germany), Emilia Romagna (Italy), Western Cape (South Africa), Kymenlaakso (Finland) and Maharashtra (India)
- A short outcome document will be shared with all governments with key elements discussed:

Main obstacle / barrier	Strategy developed so far	Questions for others	Results / learnings (from implemented strategies / projects)

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Net Zero Futures.

“ The government and already about 100 businesses in Catalonia have committed to net zero emissions by 2050. We encourage others to follow suit since the decarbonisation of our economy and activities are the backbone of the future of our societies.

Teresa Jordà,
Minister for Climate Action, Food and Rural
Agenda, Government of Catalonia



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Salvador Samitier i Martí

General Directorate of Environmental
Quality and Climate Change

Ministry of Climate Action, Food and
Rural Agenda

Catalonia

Net Zero Futures.





Generalitat de Catalunya

Government of Catalonia



Net Zero Futures.

Mobilising global state and regional leadership on net zero ambition

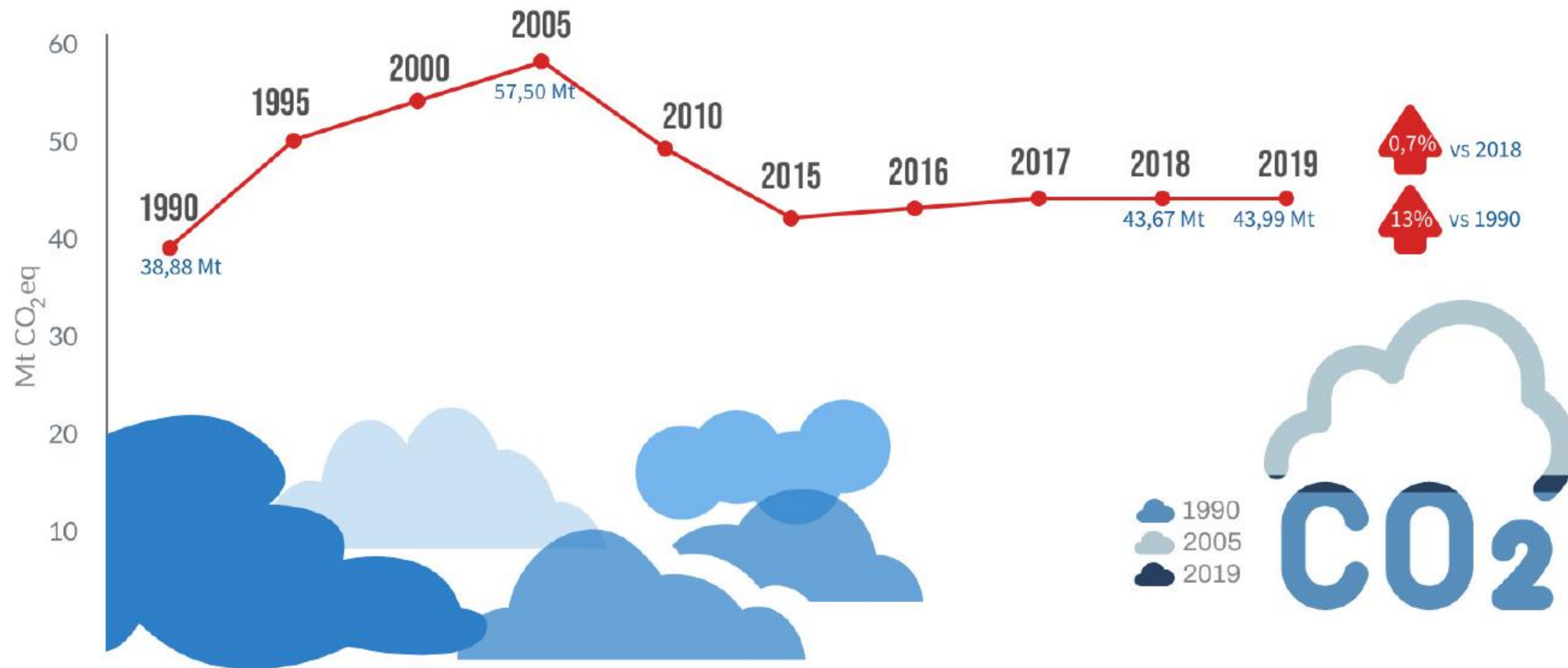


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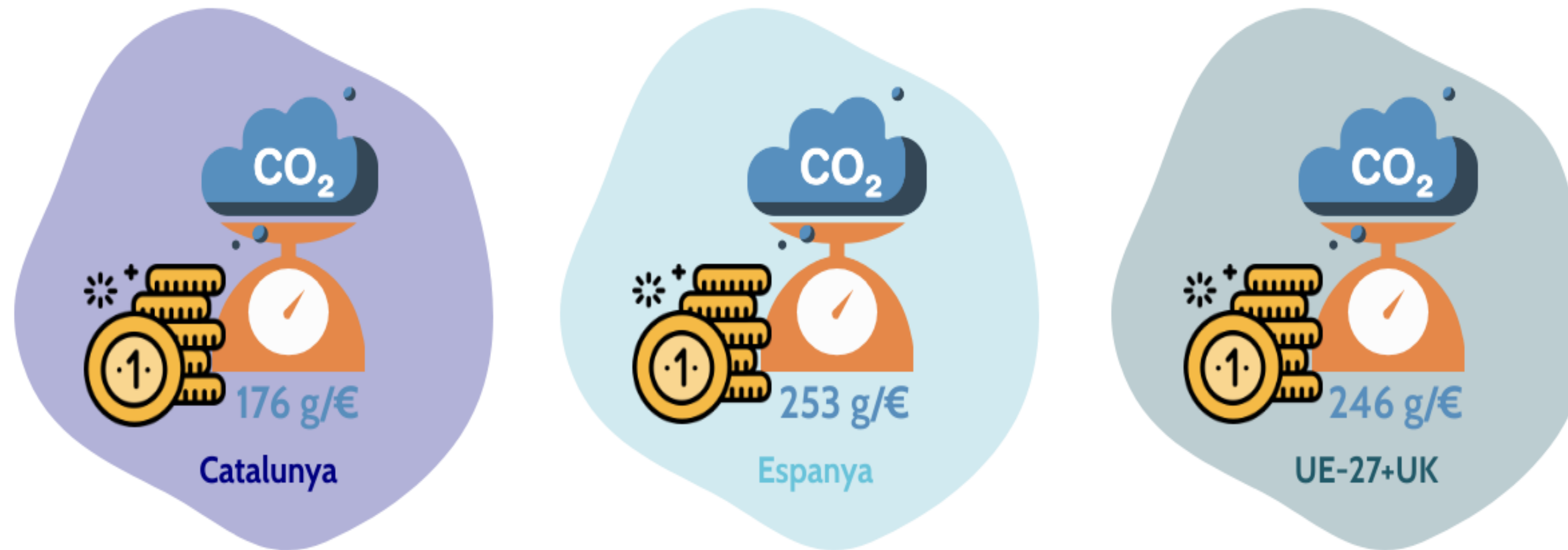


Salvador Samitier i Martí
Catalan Office of Climate Change
13.10.2021

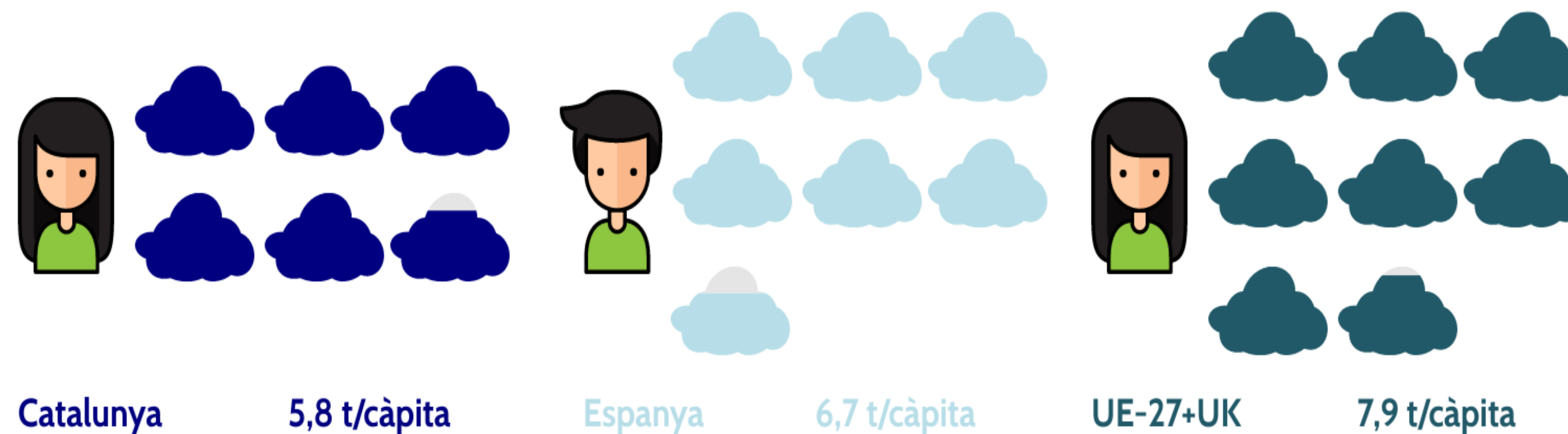
Evolució 1990-2019



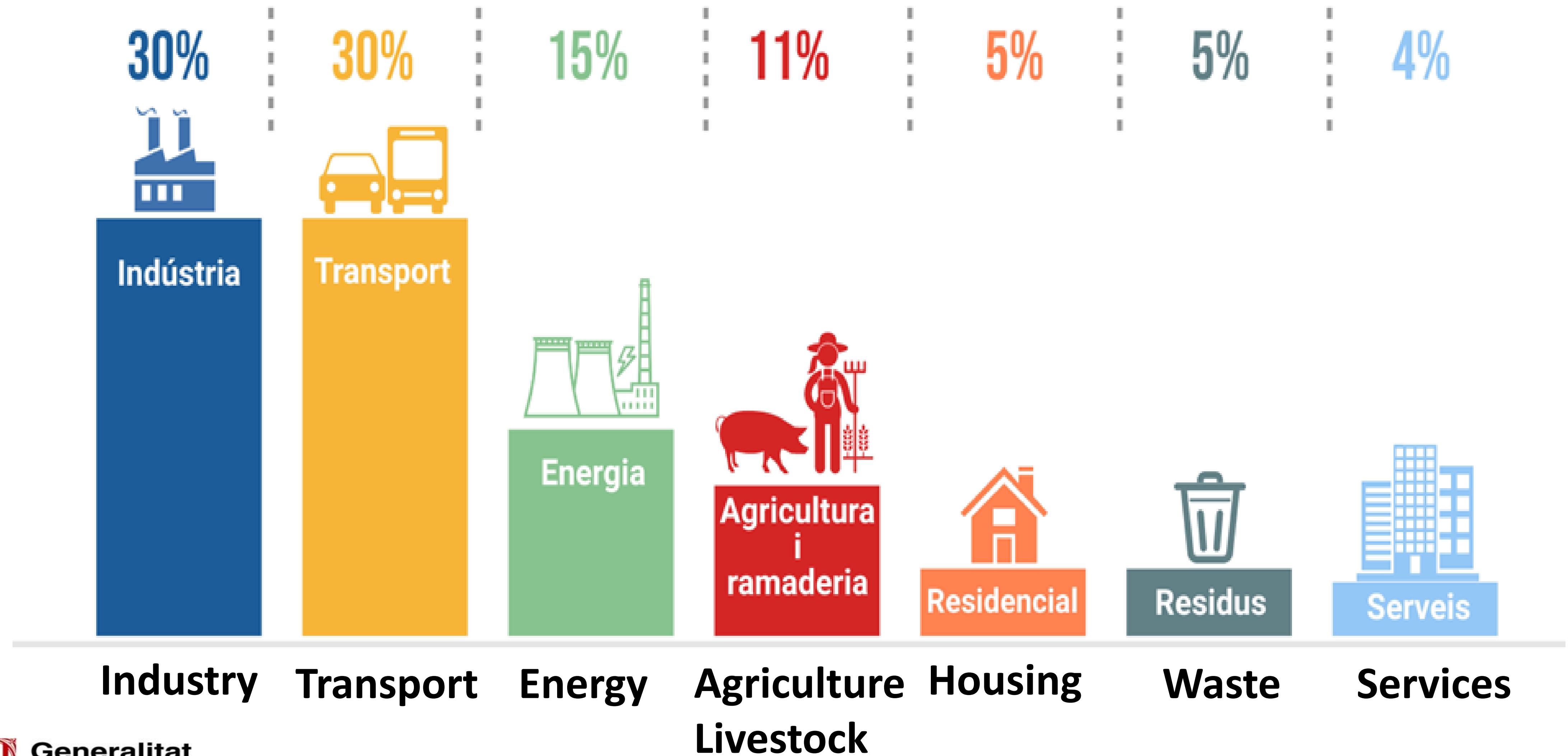
CO₂ eq emissions per unit of GDP



CO₂ eq emissions per capita



Catalonia emissions data



Voluntary Agreements on GHG Emissions Reduction

The Program of Voluntary Agreements for the Reduction of Greenhouse Gas (GHG) Emissions was launched in 2010, through the Catalan Office of Climate Change. This Program offers tools, support and recognition to those organizations that have facilities and / or operations in Catalonia and they want to make public their commitment to reduce their GHG emissions.



- 1 ANNUAL GHG INVENTORY
- 2 ANNUAL REDUCTION MEASURES
- 3 VOLUNTARY OFFSETTING OF UNAVOIDABLE EMISSIONS

213 companies



Find information accession to www.gencat.cat/canviclimatic
Accession code:

Emissions reported 2019 inventories (199 organizations):

- Most member organizations are private companies, representing 71%. In second place are public administration entities with 15%, followed by non-profit organizations with 10%. 4% of organizations are of other types such as consortia, joint ventures.
- There is a wide range of sectors represented in the agreements, the majority are the Industry sector and the Consulting and Engineering sector with 18% and 17% respectively.
- 62% of the total emissions reported are from power consumption.
- 27% of the total emissions are generated directly in the facilities and / or their own vehicles (consumption of fossil fuels, leaks of fluorinated GH gases and in some minor cases due to process emissions).
- 11% are emissions generated outside the organization's facilities and vehicles. These emissions include, for example, emissions from waste treatment, the treatment and purification of water, transport by air, train,....

Some remarks:

- There is an increasing interest in inventorying GHG emissions and show some kind of awareness about climate issues.
- More and more organizations are buying electricity generated from 100% renewable energy sources. Since the beginning of the Program, 98 measures for the purchase of 100% renewable electricity have been put in place by 74 organizations (69 already implemented). Also, there is a significant increase in the implementation of renewable energy facilities for self-consumption.
- We are implementing new ISO 14064. This means a change on the old scopes perspective:
Scope 1: direct emissions; Scope 2: indirect emissions-electricity; Scope 3: all other indirect emissions
to a significance emissions criteria, so it's an important challenge for organizations and there is uncertainty how to manage them yet.

Next Steps:

- Towards a compulsory mandate for all organizations? Not yet.
- For now, what was included in the Catalan Law on Climate Change is:
 - Access to grants, tax credits and other similar benefits for projects of an environmental, energy and innovative nature for a transition towards a carbon neutral economy:
 - Companies >250 employees: shall prove that they have done a vulnerability analysis to the impacts of climate change, a GHG emissions inventory and implement actions for their reduction.
 - Companies <250 employees: to include positive selection criteria.
 - Catalan ministries and their public bodies shall have an inventory of GHG emissions, complete an energy audit of their buildings and establish an objective to reduce GHG emissions.

Voluntary offsetting Programme

This Programme was launched in 2015. It is aimed to promote the reduction of greenhouse gas (GHG) emissions through projects carried out by social entities. Once the emission reductions of these projects have been verified externally, the Program facilitates other organizations and individuals to buy these local emissions reductions to offset their own emissions (through an external platform managed by a third entity)



- Addressed to promoting local compensation
- Promoters: NGOs and Foundations
- Social component



- 21 projects from 19 entities. There are 5 more in the pipeline. The projects generate credits for a period of 4 years.

- The OCCC has approved 11 project methodologies that are based on internationally accepted methodologies, and that have been adapted to the Catalan reality.

- A first package of 4,256 credits was put up for sale, of which 82% was sold. The price is 10 € / tone CO₂. A second package of 7,417 credits will be available soon.

1. Biomass boilers.
2. Solar for DHW.
3. Photovoltaic and mini-wind for self-consumption.
4. Electric vehicles with renewable.
5. Electric bicycles and tricycles.
6. Avoid food waste in management entities.
7. Avoid food waste with a specific action
8. Fertilizer management in agricultural soils
9. Connection to a district heating.
10. Improvement of the energy efficiency of heating and sanitary hot water systems.
11. Construction and rehabilitation of buildings with energy saving criteria

Some remarks:

- When the program did not exist, there were many companies asking for the option of being able to compensate locally. Now that it exists it is very difficult to sell the credits.
- There are many misunderstandings about compensation: additionality, quantity of actual emissions reductions (overestimation).
- It could be seen as complex: screening phase, evaluation, approval, verification. It could last, more than two years between the application and when the organization receive the money.
- Some organizations are reluctant to being involved in this kind of tools. They see them as “dirty” because are perceived not as a tool to help other to reduce but a right to pollute, if you have money.

Water Tax on consumption and pollution. Its aim is to encourage a more efficient use of this good.

Waste Tax on disposal of municipal and construction and industrial waste

Tax on large shopping centers. Their dominant position in the sector can generate negative externalities in the territory and the environment, the cost of which they do not assume. The cost is related with the percentage of parking car spaces devoted.

Tax on NOx and PM emissions in industry.

Tax on NOx emissions in commercial flights. LTO cycles (landing and take-off)

Tax on facilities with environmental impact: power transmission towers and telecommunications towers (impact on the landscape)

Tax on CO₂ emissions of cars, light duty vehicles and motorcycle:

- Included in the Catalan Climate Change Law in 2017.
- According the official emissions data (gCO₂/km).
- Some problems with the quality of the vehicles database.
- It has been necessary to develop a statistical model for vehicles with no official emissions data (before 2008 for cars and light duty vehicles).
- 2021 is when tax collection will take place (2020 financial year). Being the first year, the tax rates are slightly lower (typical fee 15€-60€).

Tax on CO₂ emissions of cars, light duty vehicles and motorcycle. Some remarks:

- It has received some criticism as it does not take into account the total kilometers travelled (total emissions).
- Many discussions with car owner associations and car manufactures. Not very happy.
- The money raised nurtures two Funds: one for climate and another for natural heritage. The objective is to develop actions to reduce GHG emissions, adapt to climate change impacts and improve ecosystems.
 - Now we are working in a 4-year program about what projects are going to be developed.

Tax in the pipeline:

- Tax on economic activities that generate GHG emissions (some industrial and livestock activities): near 1.400. Industrial other than ETS.
- Tax on NOx emissions of large ships when they are moored in ports.

Questions or reflections?

Net Zero Futures

Lydia Elliot
Supply Chains Manager

WeMeanBusiness
Coalition

Net Zero Futures.



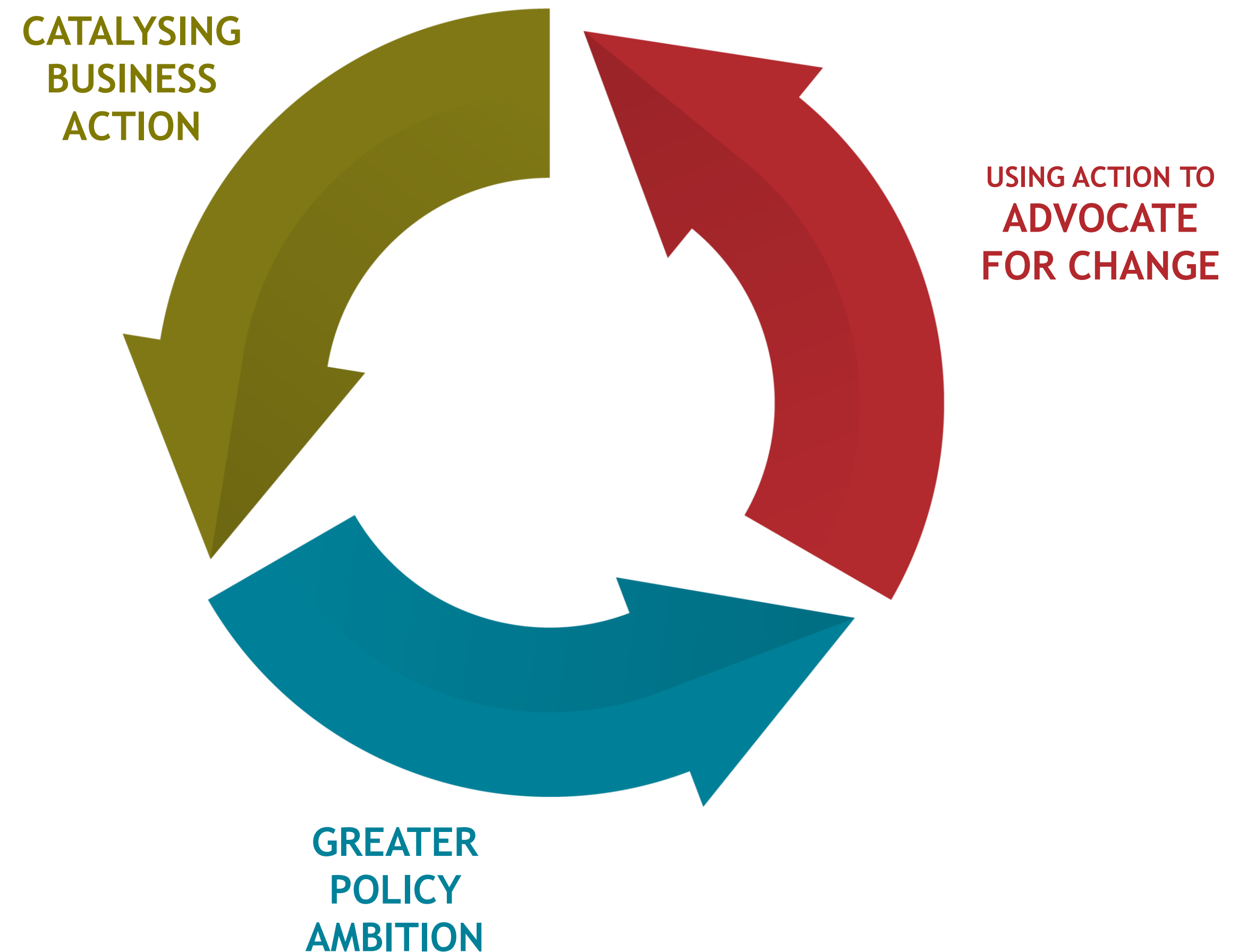
SUPPORTING BUSINESSES TO TAKE CLIMATE ACTION

OUR AMBITION LOOP

We are a coalition of leading NGOs and have a very clear theory of change that actually delivers change

The 'Loop' accelerates the rate of change:

- »»» The more action business takes
- »»» The more this evidence can be used to advocate for change
- »»» The more confidence Governments have to set ambitious climate policies



A COMPANY JOURNEY TO NET ZERO

LEADERSHIP ON NET ZERO

Long-term target to reach net-zero emissions by no later than 2050.
Short-term targets to halve emissions by 2030



SCIENCE
BASED
TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

**BUSINESS
AMBITION FOR 1.5°C**

**THE Paris...
CLIMATE 10 years
PLEDGE Early**





IMPLEMENTING NET ZERO



°CLIMATE GROUP



RENEWABLE ENERGY

°CLIMATE GROUP

EV100

ELECTRIC VEHICLES

°CLIMATE GROUP

EP100

ENERGY EFFICIENCY

SOS 1.5

ACTION PLANNING



MISSION
POSSIBLE
PARTNERSHIP

MISSION POSSIBLE
PARTNERSHIP

+ MANY MORE INITIATIVES

CLIMATE LEADERSHIP FOR LARGER BUSINESSES

AMBITION

- » Align targets with science
- » Aim for net zero and halve emission by 2030
- » Factor in your value chain



BUSINESS AMBITION FOR 1.5°C

**THE Paris...
CLIMATE 10 years
PLEDGE Early**

ACTION

- » Work with action collaboratives
- » Inform your investors
- » Connect climate and equality

RE100

°CLIMATE GROUP



°CLIMATE GROUP
EP100

°CLIMATE GROUP
EV100

SOS 1.5

°CLIMATE GROUP
STEELZERO

ADVOCACY

- » Make your voice heard
- » Address trade associations
- » Persuade peers

ACCOUNTABILITY

- » Report on progress
- » Listen & learn with stakeholders
- » Integrate climate in executive board

What we do

CLIMATE LEADERSHIP FOR SMALL/MEDIUM BUSINESSES

We Mean Business Coalition hosts the SME Climate Hub, the one-stop-shop for SMEs to make a climate commitment and access best-in-class tools and resources.

- 2,300+ SMEs across 80 countries
- We create the tools to support SMEs measure, act and report
- We reach SMEs by building partnerships with governments (UK government), corporations (Verizon, Intuit) and outreach partners.

In partnership with...



NET ZERO BUSINESS INITIATIVES IN NUMBERS

Initiative	Requirement	Total
	Net Zero by 2040	201
	1.5C aligned interim target / Net Zero by 2050	907
	Halve by 2030 / Net Zero by 2050	2,350
We continue to encourage all companies to set Science-Based Targets as well		
	Interim targets at 1.5C, well below 2C or 2C	1,929



WHAT CAN REGIONAL GOVERNMENTS DO TO SUPPORT BUSINESSES?



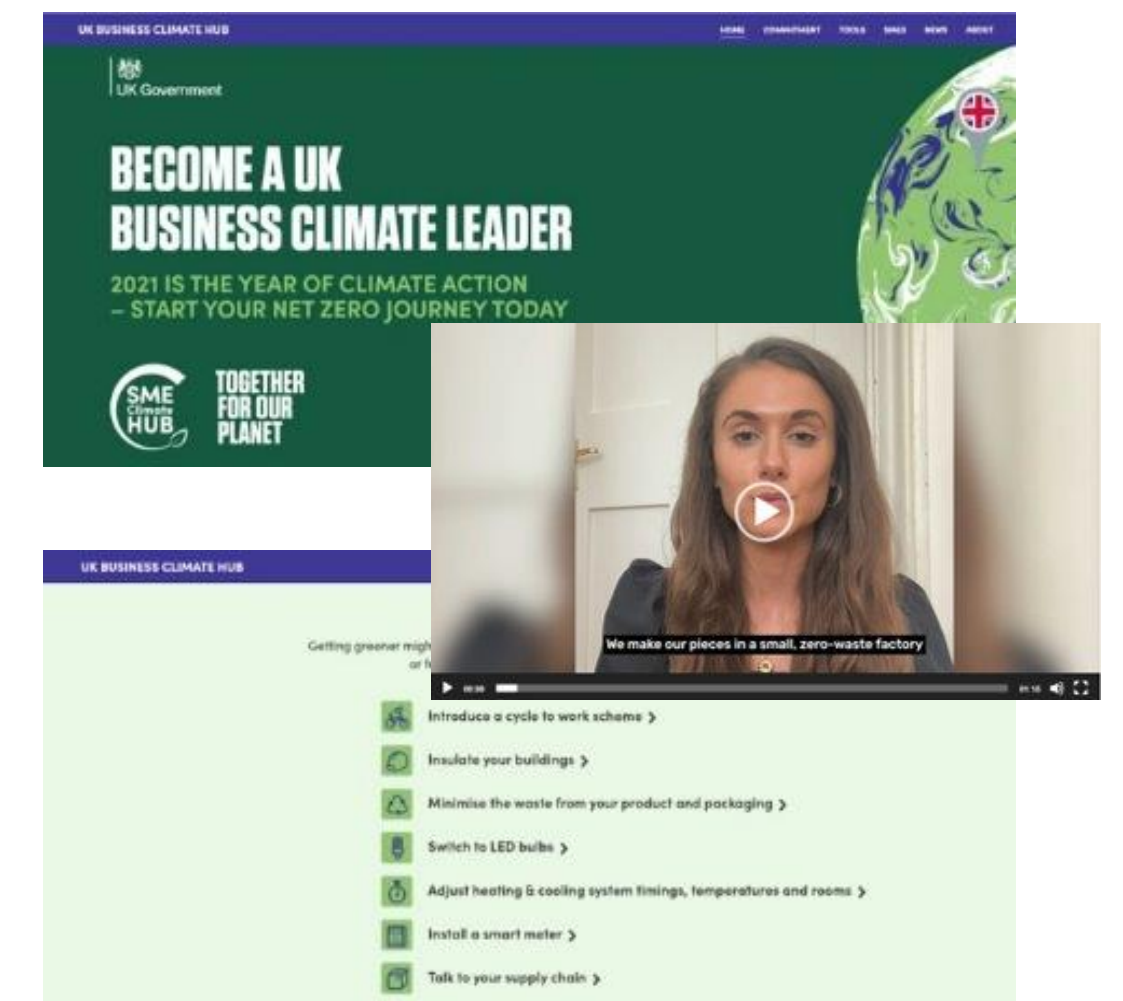
Set the path for large businesses

- Clear expectations
- Guide large businesses to set credible climate commitments and take action
- Put in place the policies to help businesses achieve their commitments



Support small businesses in taking climate action

- Raise awareness of the importance of SMEs taking climate action
- Guide them to the right resources like the SME Climate Hub
- Help SMEs feel confident in taking the first steps
- Put in place the policies and support to help SMEs achieve their commitments

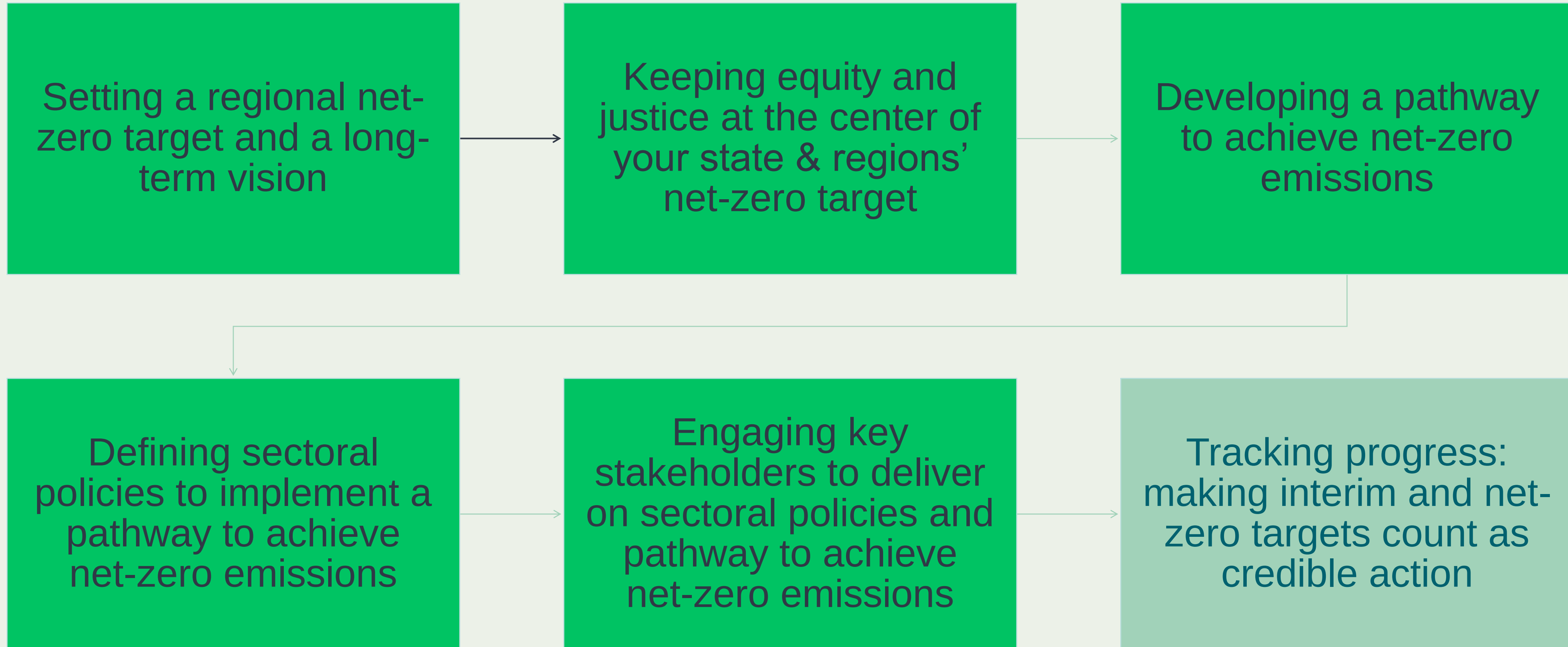


Questions or reflections?

Net Zero Futures

Dialogue series themes

April – December 2021



Net Zero Futures.

A selection of inspiring quotes from Net Zero Leaders



Net Zero Futures.

“ Cities and regions are the frontlines of climate action. So it’s essential that we show that net zero targets are not only achievable, they’re necessary. We must set the bar high and be bold to address the scope of this crisis.

Jay Inslee,
Governor of Washington



Net Zero Futures.

“ Reaching carbon neutrality is at the very core of the Pact for Work and Climate that was signed by Emilia-Romagna and 55 organisations representing local governments and universities, enterprises and trade unions, civil society and environmental associations. A shared commitment to ensure a fair and inclusive ecological transition, with effective and measurable strategies to reduce GHG emissions across all sectors.

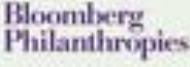
Elly Schlein,
Vice President of Emilia-Romagna



Net Zero Futures.

“ Net zero is no longer an option but a necessity for the future of the earth in face of the dismal climate challenges. Chungnam will lead the way in our joint efforts to revitalise the earth as we together build a global coalition to accelerate decarbonisation.

Yang Seung-Jo,
Governor, Chungnam Province



Net Zero Futures.

“ As the first Latin American region to join Race to Zero, Minas Gerais consolidates its commitment, increasing its level of climate ambition. The drive for low carbon economic recovery has made us Brazilian leaders in photovoltaics. The cooperation will contribute to the identification of an intermediate goal towards the net zero by 2050 goal, aligning the state and the productive sectors.

Marilia Carvalho de Melo,
Secretary of Environment and Sustainable Development



Net Zero Futures.

“ Baden-Württemberg wants to achieve climate neutrality by the year 2040. Therefore, we have to curb all environment and climate-damaging activities and create sustainable and resource-saving alternatives. However, we will also take precautions to adapt to climate changes.

Ms Thekla Walker,
Minister of the Environment, Climate Protection and the Energy Sector, Baden-Württemberg



Net Zero Futures.

“ Kymenlaakso region is an international hub of logistics and forest industry. This creates a unique foundation for new innovations towards carbon neutral, sustainable circular economy and society.

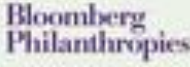
Mr Jaakko Mikkola,
Mayor, Regional Council of Kymenlaakso



Net Zero Futures.

“ Hawaii'i has a history of leading in so many areas. We have made a commitment to net carbon negative emissions because we know that it makes a difference. We know that people are watching what happens here on the islands.

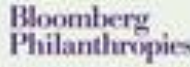
David Ige,
Governor of Hawaii'i



Net Zero Futures.

“ Victoria's Climate Change Strategy sets the State on a nation-leading path to reduce emissions, drive investment and create jobs. We're demonstrating the vital role states and regions can collectively play in meeting net zero emissions while creating a prosperous future.

The Hon. Lily D'Ambrosio,
Minister for Energy, Environment and Climate Change and the Minister for Solar Homes, Government of Victoria



Net Zero Futures.

Net Zero Futures: session at the Under2 Coalition General Assembly

- The Scottish Government will open this special session and chair a conversation with other Net Zero Leaders
- Vision and outcomes so far of the initiative will be presented
- If your President/Minister is attending in person and interested in speaking at this session let us know

Net Zero Futures.



Next steps

1. Fill out **feedback form** (link shared in chat)
2. Final dialogue session in December – **Tracking progress**
3. Fill in the application form to join a **Net Zero Futures Working Group** – running until March 2022
4. If you are interested in making a net zero commitment, please reach out to the team to learn how we can support your announcement by profiling you as **Net Zero Leader** and connect you to **Race to Zero**.

Net Zero Futures.



Thank you

For any questions about Net Zero Futures, please contact:

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Poll

Net Zero Futures