EU and global progress towards

the goals of the Paris Agreement

27 October 2023





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the goals of the Paris Agreement

Laura Cozzi Director of Sustainability Technology & Outlooks, International Energy Agency



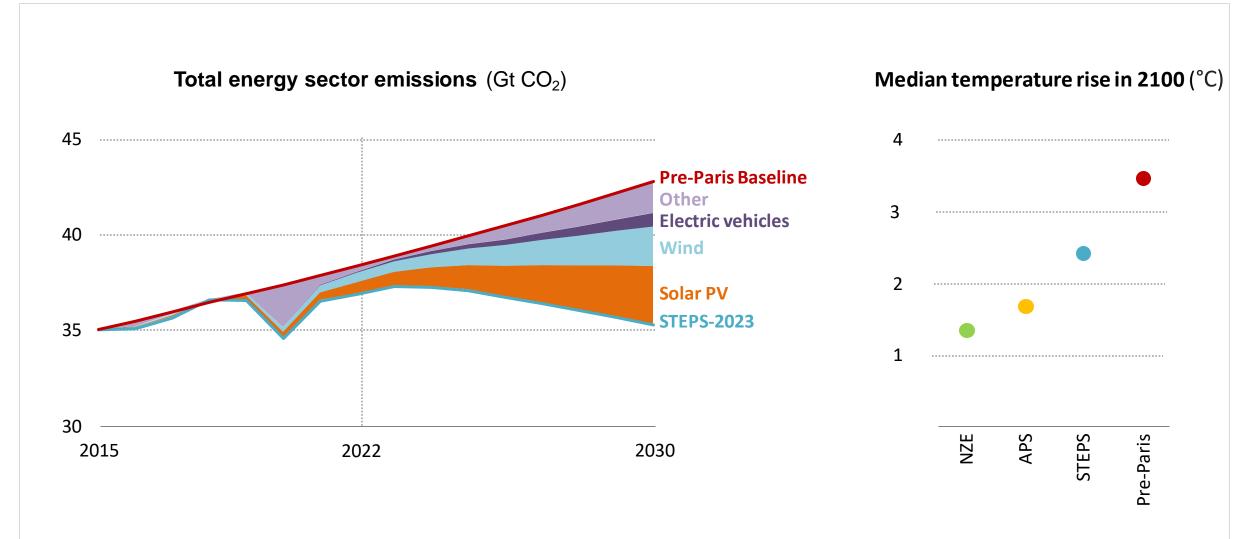




Laura Cozzi, Director, Sustainability, Technology and Outlooks, IEA 27 October 2023

Progress on policies and technologies have shaved off 1 °C





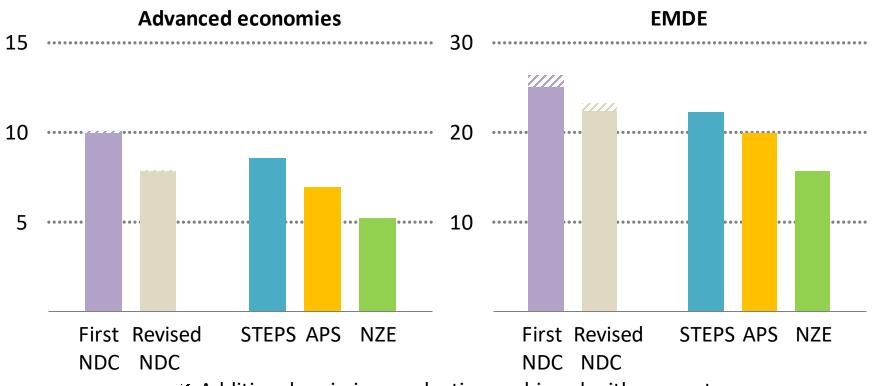
Projected 2100 warming under the Pre-Paris Baseline was 3.5 °C, but this has fallen to 2.4 °C under current policy settings – real progress but insufficient to meet the goals of the Paris Agreement

IEA 2023. CC BY 4.0.

Updated NDCs raise ambition but fall short of pledges and 1.5 °C



CO₂ emissions from fuel combustion implied by NDCs and in IEA scenarios by economic group, 2030 (Gt CO₂)

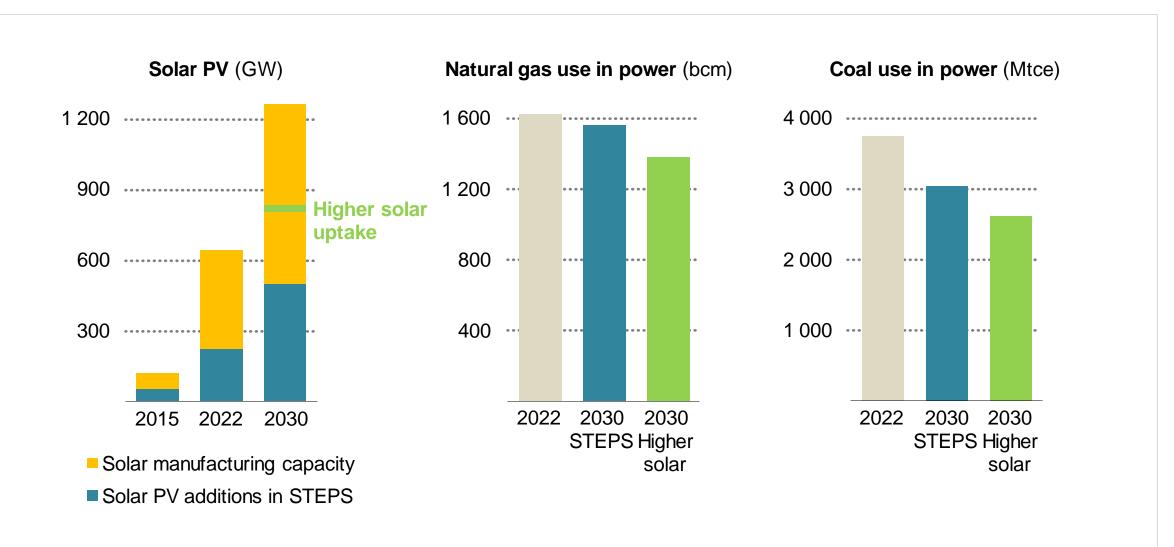


Additional emissions reductions achieved with support

The Paris Agreement's ambition cycle has enabled a significant increase in ambition in both advanced economies and EMDE, but enhanced global cooperation remains critical to drive stronger implementation and ambition

A solar boom could accelerate the shift away from fossil fuels

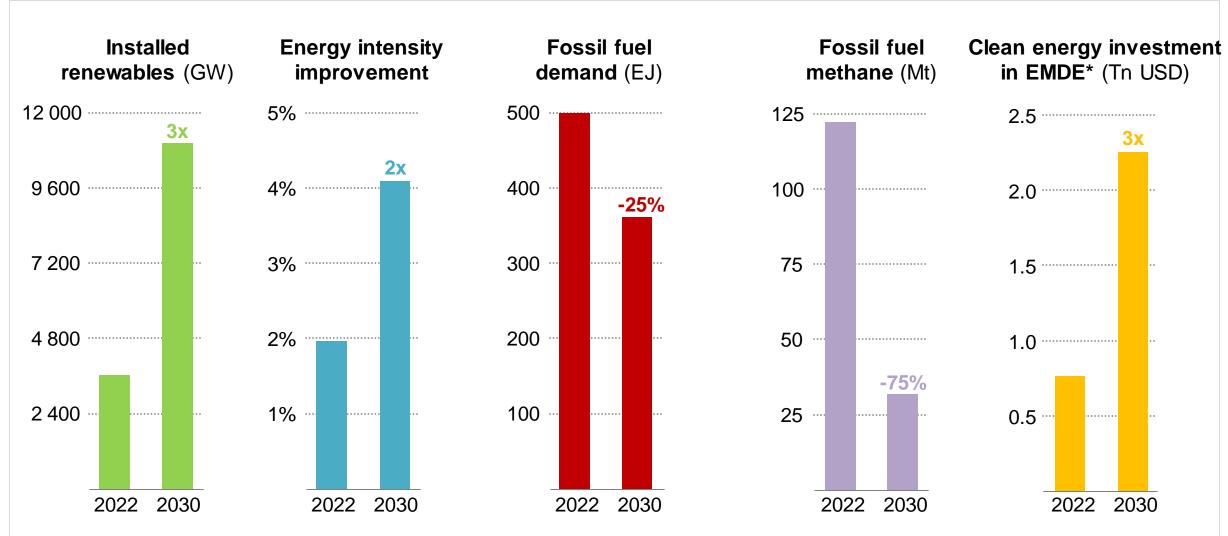




Ample global manufacturing offers considerable upside for solar. Effectively integrated, this would further cut natural gas and coal use, making the declines steeper.

Five pillars to keep 1.5 °C alive





A comprehensive energy package for COP28 needs to drive the growth in clean energy, support emerging and developing economies in the transition, and recognise the need to reduce fossil fuel demand



IEA 2023. CC BY 4.0. Page 8

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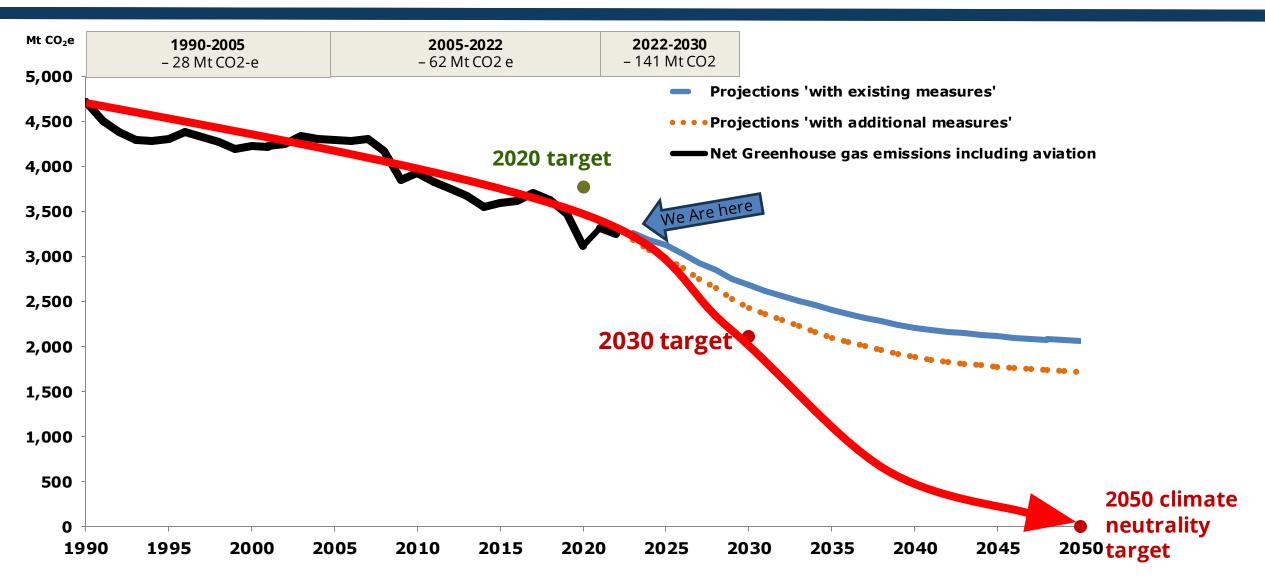
Leena Ylä-MononenExecutive Director, *European Environment Agency*







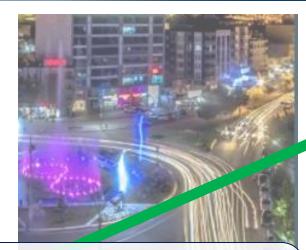
Towards climate neutrality in 2050



Implementation: reconfiguring energy, food, mobility and industrial systems

Phase out





- Find synergies between policy objectives
- Create enabling Conditions
- Speed/scale up deployment

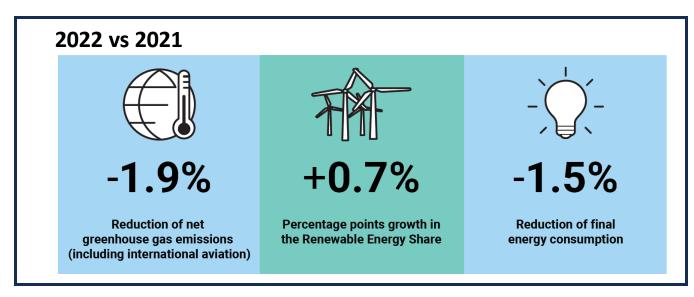
Phase in

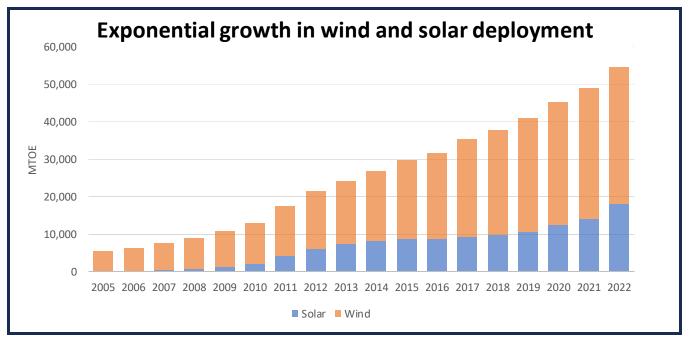


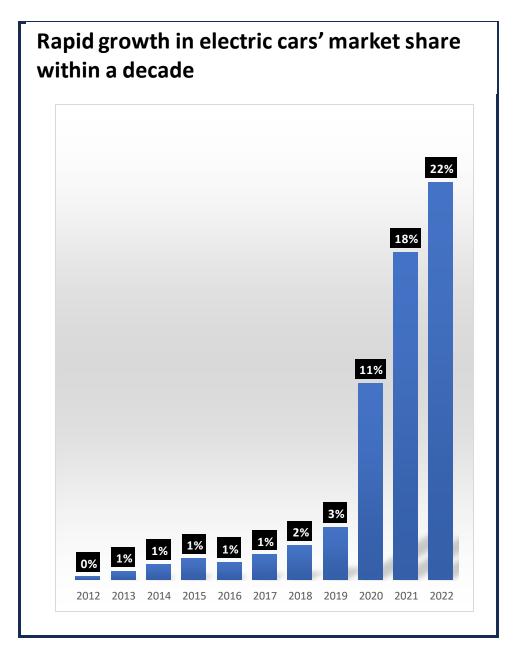




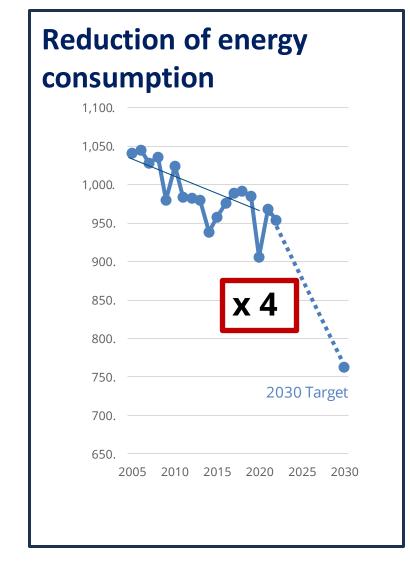
Progress can be seen in key areas



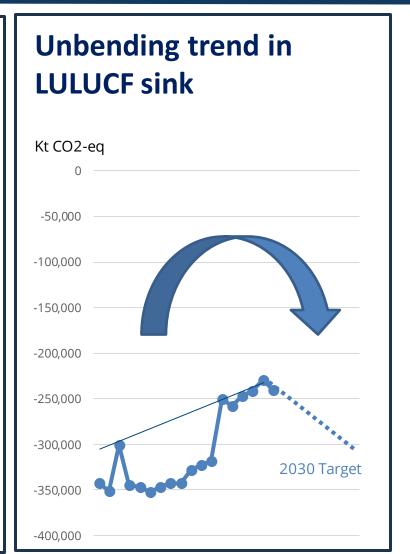




Much work still to be done towards 2030 targets

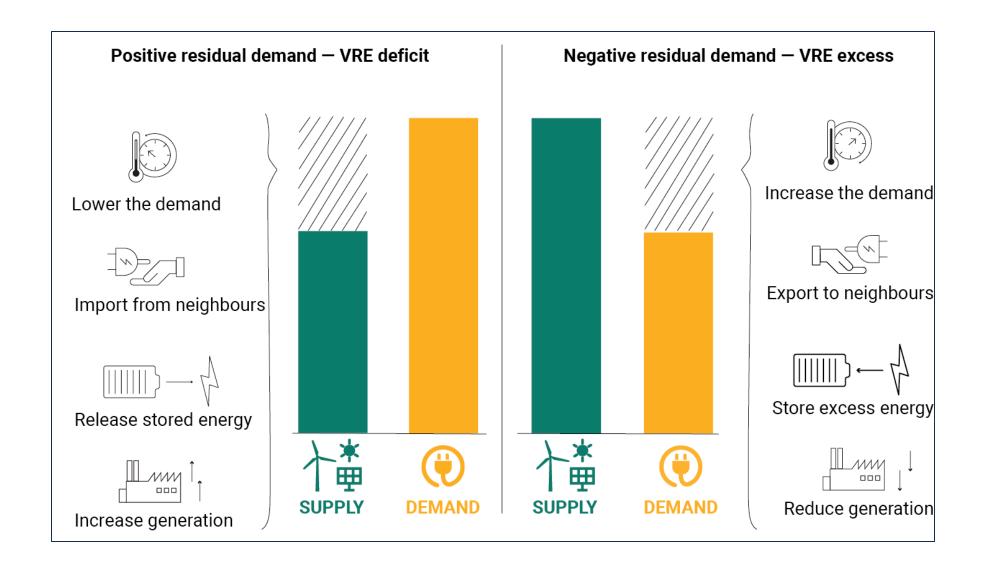






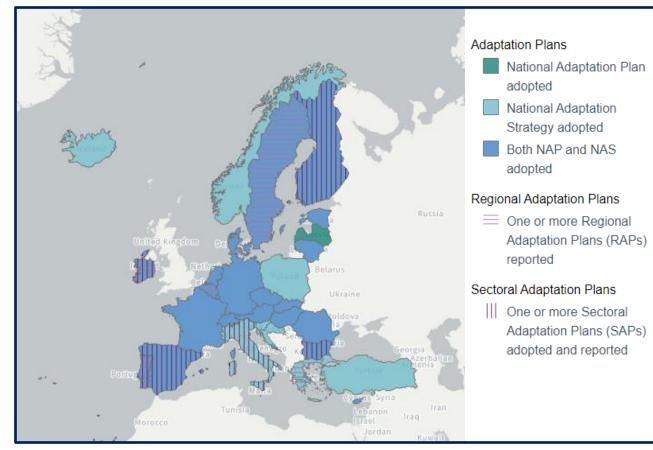


Flexible solutions to support a decarbonized and secure electricity system





Further steps required towards societal preparedness to climate risks



Adaptation policy instruments in EEA member countries 2022

- More comprehensive legislation and improved implementation
- Regular assessments and tracking of progress towards 2050
- EUR 40-200 bn annual investment needs: cost-effective solutions urgently required
- Harnessing co-benefits of nature and biodiversity restoration
- Leaving no-one behind in adapting to climate change

European Climate Risk Assessment: helping build societal preparedness



Including:

- Main report
- Executive summary (input to planned Commission Communication)
- Interactive data viewers
- Complementary technical background documents

Policy objectives



to help identify **adaptation-related priorities** for the next policy cycle



to inform the **further development of EU policies** in climate-sensitive sectors



to support the **prioritisation of adaptation-related investments** for the next Multi-annual Financial
Framework



to provide a reference for **national and regional climate risk assessments** (incl. for the EU Mission on Adaptation)





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Justyna Mazurkiewicz LIFE project Regional Action Plan for Climate & Energy for the Malopolska Region







LIFE-IP EKOMALOPOLSKA

IMPLEMENTATION OF THE REGIONAL ACTION PLAN FOR CLIMATE AND ENERGY FOR THE MALOPOLSKA REGION

Justyna Mazurkiewicz
Project Manager of the LIFE-IP EKOMALOPOLSKA
Malopolska Region (Poland)

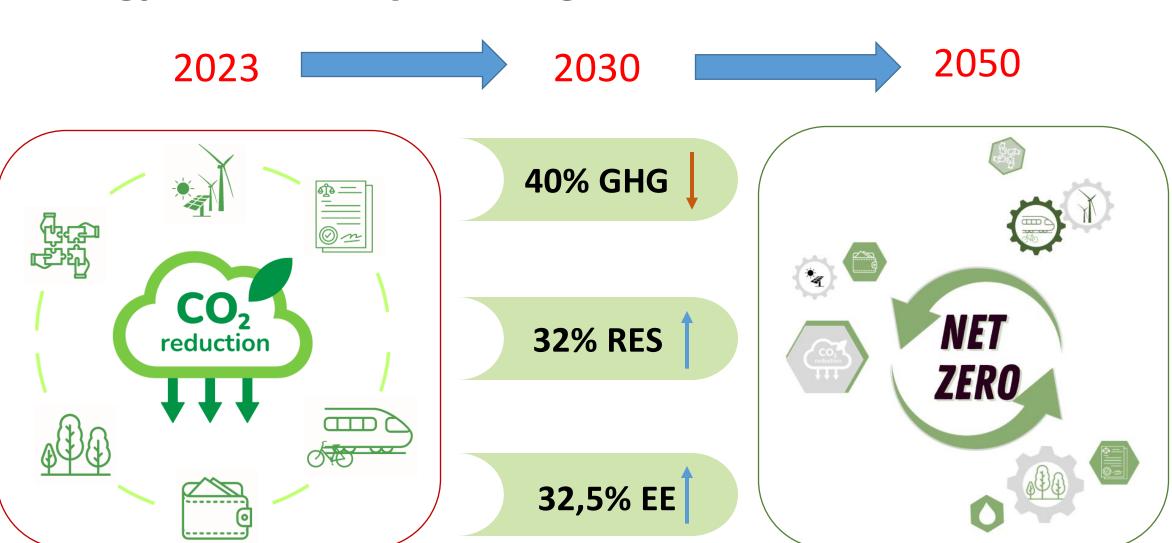






Regional Action Plan for Climate and Energy for the Malopolska Region





LIFE-IP EKOMALOPOLSKA



LOCATION: Malopolska Region, Poland

BUDGET INFO:

Total budget: 16 407 518 €

Complementary funds: 1 billion €

DURATION: 01/01/2021 – 31/12/2030

PARTNER:

Coordinating Beneficiary: Malopolska Region

Associated Beneficiary(ies): Silesia Region, AGH University of Science and Technology, European Clean Air Centre, Brandenburg University of Technology Cottbus, Wuppertal Institute, 21 counties



LIFE-IP EKOMALOPOLSKA



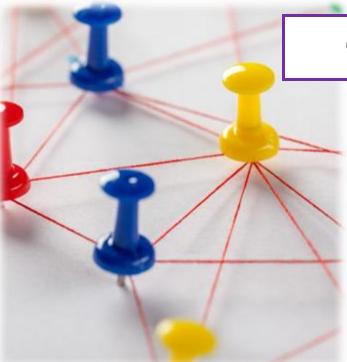
MAIN GOAL

- full implementation of the RAPCE and the mobilization of available EU and domestic funds
- strengthening the implementation of the RAPCE, NECP and the European Green Deal
- low-carbon transformation of the heating appliance market
- wide scale change of behavioural attitudes
- transfer of good practices to other Polish and European regions









COOPERATING UNITS







NATIONAL

Ministry of Climate

NGO

National Fund for Environmental Protection and Water Management

INTERNATIONAL

Platform for Coal Regions in Transition

ERRIN

NGO

Mission EU

REGIONAL

Regional Fund for Environmental Protection and Water Management

Malopolska Regional Development Agency

SCIENCE UNITS

University of Agriculture

Cracow University of Technology

Jagiellonian University

BUSINESS







LOCAL

Municipalities in Malopolska

NGO

The Agency for Restructuring and Modernisation of Agriculture

OTHERS

Installers of heat, cold and power generation equipment

Trade unions





REGIONAL EXCELLENCE CENTRE

- support for low-carbon transformation projects (5)
- knowledge base, expert opinions, analyses (20)
- support for counties in intersectoral integration of climate objectives (21)
- training, workshops, postgraduate studies and study visits for counties and municipal officials (50)
- knowledge transfer (30)

Strengthening the capacity and involvement of local governments in climate action.









ADMINISTRATION-BUSINESS-SCIENCE-SOCIETY – FOR A BETTER CLIMATE!

- 40 experts from Administration, Business, Science and NGOs
- **5 discussion** groups:

energy transition, water management, circular economy, climate education, cooperation



Identification of needs and key **problems** in the field of climate action in the perspective of 2030 and 2050.









LOCAL EXCELLENCE CENTRE

24 climate and environment advisors

- professional advisory for residents (26 000),
- cooporate with opinion-making groups (140)
- conduct local behavioural change campaigns (86)
- obtaining funds for real investments for residents

2 buisness advisors

- professional advisory for SMEs (220)
- providing training sessions for SMEs (11)
- obtaining funds for environmental action for SMEs,





LIFE-IP EKOMALOPOLSKA



REGIONAL AND LOCAL AWARENESS CAMPAIGN

Climate for Generations

(reaching over 2 million inhabitants)

Malopolska Climate Day

(over 80,000 residents, nearly 50,000 trees planted)

Green Week in the Malopolska Region

(21 schools, 180 students in each session)

grants for NGOs

Malopolska Education Cloud

(14 courses, 180 students in each session)

























THANK YOU FOR ATTENTION!

Justyna Mazurkiewicz

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Gonzalo Sáenz de Miera Global Director of Climate Change & Alliances, Iberdrola







Iberdrola's Climate Transition Plan

Urgency, opportunities and the key role of policies and alliances

Gonzalo Sáenz de Miera Director of Climate Change and Alliances, Iberdrola





URGENCY

- Current current course of action is much slower than what we need to achieve the goals of the Paris Agreement.
- The impacts of climate change are intensely increasing, and science tells us that those will multiply much faster.

Keeping 1,5°C alive is still feasible

> But t it is increasingly difficult: the window of opportunity narrows rapidly.

ACTION

- > We need fast and big changes, specially in the energy sector.
- From firms, we need to act on all four As: Ambition, Action, Advocacy and Accountability.

IBERDROLA CLIMATE ACTION PLAN ALIGNED WITH INTEGRITY MATTERS REPORT -

KEY ELEMENTS



Objective

2030

Neutrality in emissions for scopes 1 and 2

Direct emissions (generation and other) and indirect emissions from electricity T&D losses and own consumption

<2040

Net-zero emissions for all scopes, including 3

Scopes 1, 2 and 3 (rest of indirect emissions that occur in sources that are not owned or controlled by the company (e.g., gas sales, purchase of electricity for sale to the final customer, generation of electricity for third parties, suppliers)

100% Renewables

All energy 100% zero-emissions



100% Smart grids

Networks more robust and 100% digitalised



Green procurement

- 100% green energy
- Suppliers Projects for joint reduction of emissions and use of "green" products



Green solutions for customers

Offer of green products and solutions (electrification, green H₂)

Alliances for green technologies and decarbonization

Values

Drivers



Positive for society

- Economy, industry and employment
- Inclusive transition
- Universal access to competitive energy



Positive for nature

- Net positive impact on biodiversity in 2030
- Circular Economy Model

Tools



Climate governance



Strategy and management of risks and opportunities







Green finance



Iberdrola has approved near and long-term science-based emissions reduction targets with the SBTi.

The SBTi has verified Iberdrola's net-zero science-based target by 2039



We have the technologies to decarbonize the energy sector: wee need policies, social acceptance and alliances

The moment of truth

In the energy transition, which in addition to avoiding worse climate scenarios, can generate enormous opportunities for the EU.

We have the technology

For rapid decarbonization of the energy sectors: renewables and networks for a fully decarbonization power sector and electrification

Permitting and social acceptance

> To seeped up the energy transition we need faster permitting and social acceptance, that will be key.

Alliances

➤ To achieve these **goals**, we all **need to work together** in this direction, administrations, companies, banks, civil society and foundations, along with the importance of **alliances**: **More alliances**, **more ambitious**, **more effective**.

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Johan Börje Innovation Fund Project BECCS - Bio energy with carbon capture & storage



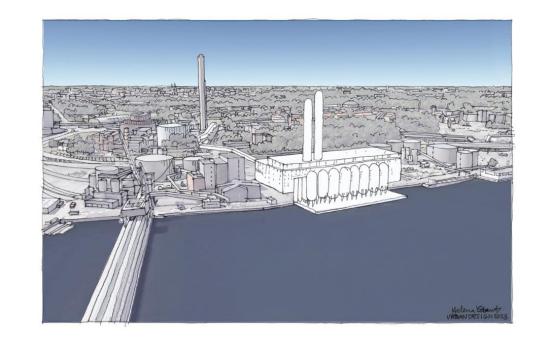


Beccs Stockholm

NEGATIVE EMISSIONS BY STOCKHOLM EXERGI

"How do we get there"

Climate Stocktake on scaling permanent removals



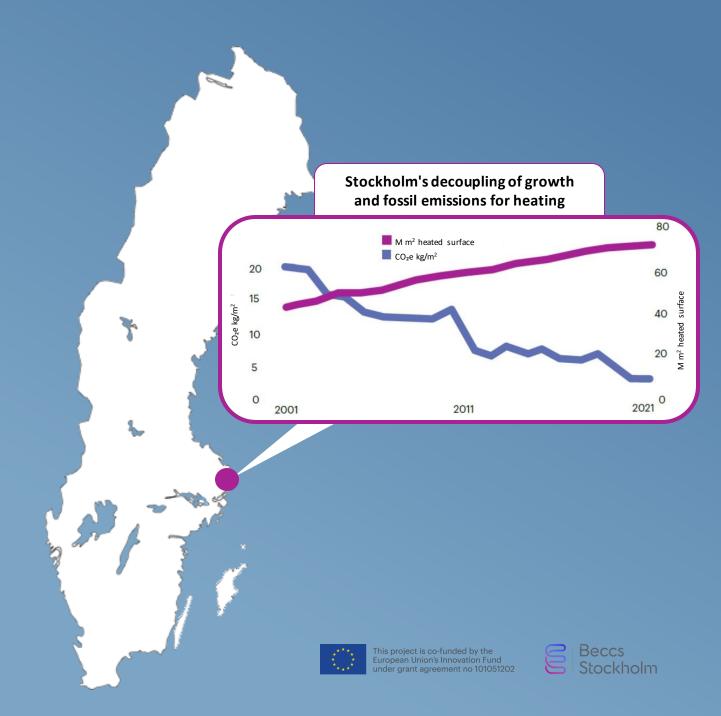
Johan Börje



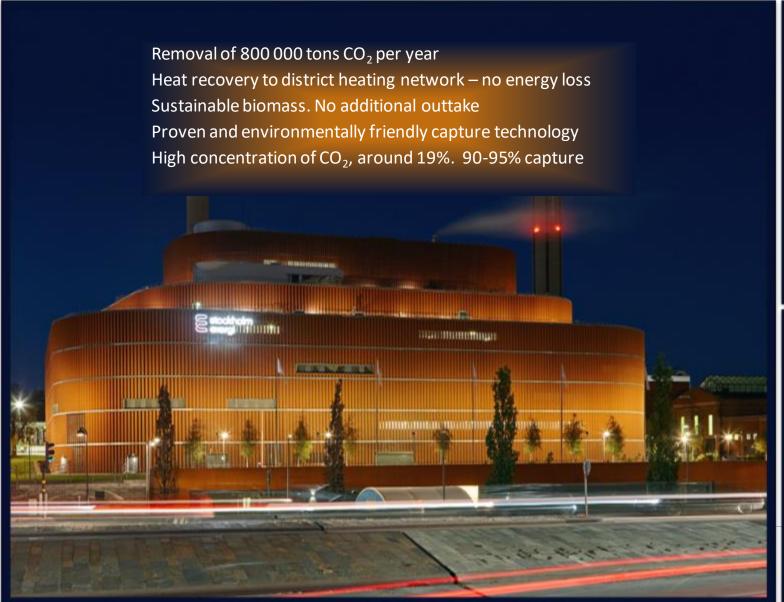


Stockholm Exergi

- District heating and cooling to 12 000 buildings and power to the electrical grid, totaling 10 TWh
- 50% owned by City of Stockholm
- €700 m turn-over
- Recent phase out of last coal-fired plant;
 now 99 per cent of production from
 recovered, reused and renewable sources
- Next step: Become EU's largest supplier of CO₂ removals with permanent storage



BECCS by Stockholm Exergi







Challenges for scaling removals with BECCS

Technical value chain

- Catch 22 Carbon Capture companies need T&S for FID, and T&S companies need CC volumes for their FID
- All building-blocks sufficiently high TRL, but no off-the-shelf products for large scale implementations and never been put together in a full commercial chain before

Business and funding

- New contractual set-ups with dependence on other parties in the value chain make allocation of risks and rewards challenging
- Still trepidation surrounding the purpose of funds contributed by institutions and governments. A clearer strategic intent would help – be inspired by the business approach taken by the US
- In the absence of compliance markets, Public funds needed to drive down the price to increase private sector net-zero demand for CRUs
- High interest from financial actors to participate in funding, but uncertainties remain

Standards and Accounting

- Lack of methodology, including for sustainable biomass, being addressed and will be resolved in time
- Lack of clarity on relationship between reductions and removals in nations' climate targets creates unnecessary pushback against removals. Make it clear for what and when they will be used in the EU
- Make clear the different roles of land-based removals and permanent removals
- Double claiming/Co-claiming debate must be settled – significant impediment for large offtake agreements





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Camilla Jain Holtse Vice President, Head of Public Policy & Regulatory Affairs, A.P. Moller-Maersk





Name giving of the world's first methanol vessel, LAURA MÆRSK



Urs ula von der Leyen, the president of the European Commission, is the godmother of Maersk's new green methanol-powered feeder vessel.







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THANK YOU!

