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Potential pathways towards net zero

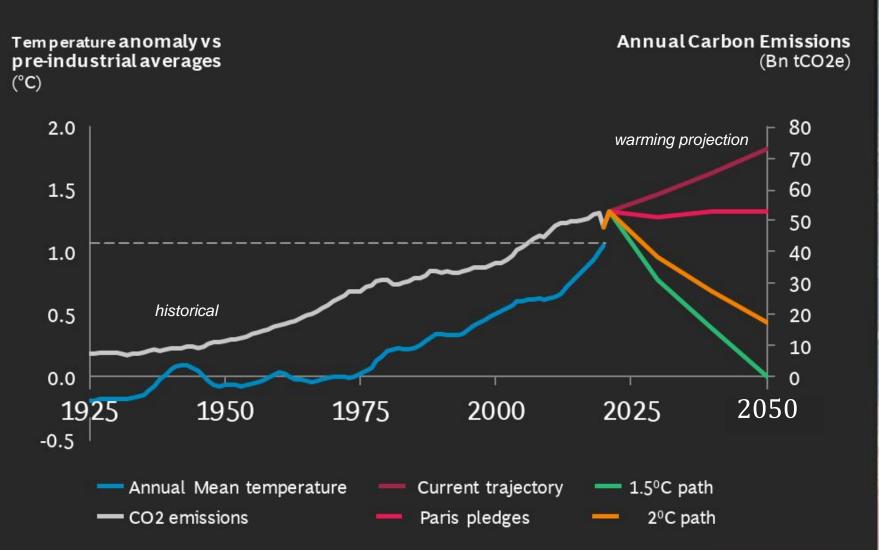
Corporate actions

Individual actions

Call to action

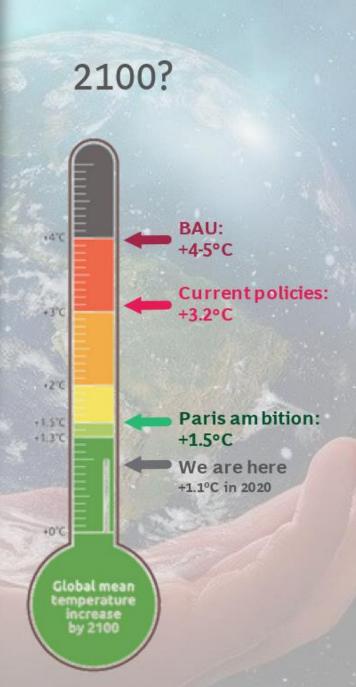


Urgent need to mitigate global warming trajectory



Note: Current policies assumes countries decarbonise further at same annual rate required to achieve NDCs between 2020 and 2030; 2.0°C path and 1.5°C path based on emission reductions required by respective 2018 average IPCC scenarios

Source: IPCC



Science stresses the need of reaching Net Zero emissions by 2050 to avoid catastrophic climate change



The Intergovernmental
Panel on Climate
Change's Special Report
2018

Need to limit global warming to a maximum of 1.5°C to prevent surpassing the "tipping point" of irreversible and catastrophic climate change impact



Limiting global warming to 1.5°C requires staying within a total carbon budget

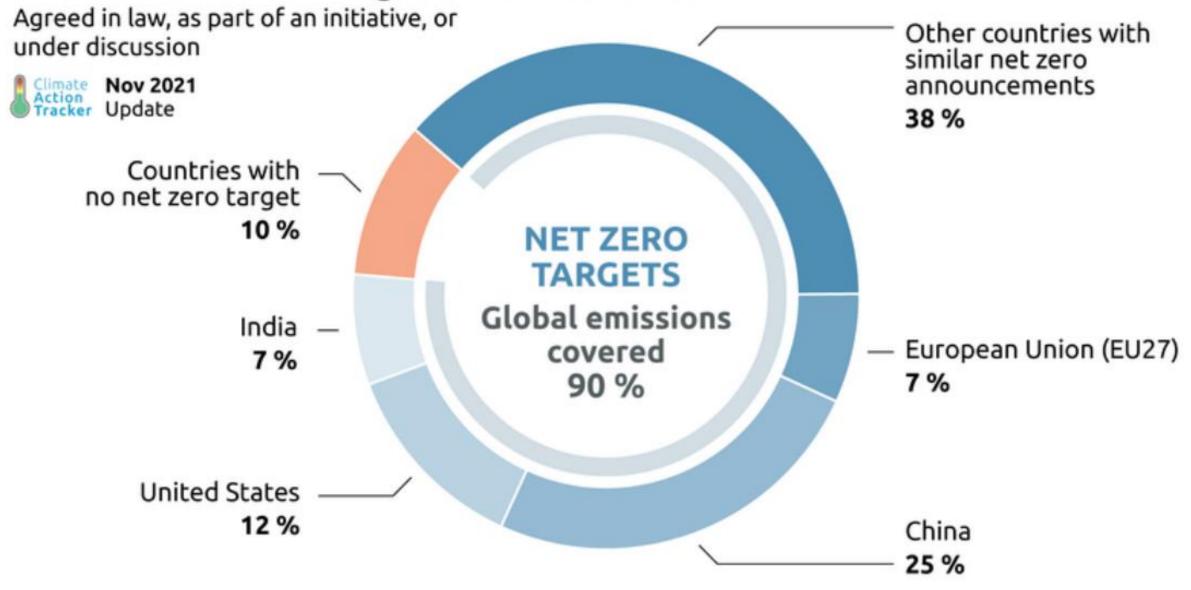
Total cumulative GHG emissions will need to be reduced to achieve at least net zero anthropogenic emissions, to prevent global warming from exceeding 1.5 °C



Pace of GHG emissions reduction required to stay within total carbon budget

Global net anthropogenic emissions of GHG would need to fall by about 45% from 2010 levels by 2030, and then to Net Zero at a global level around 2050

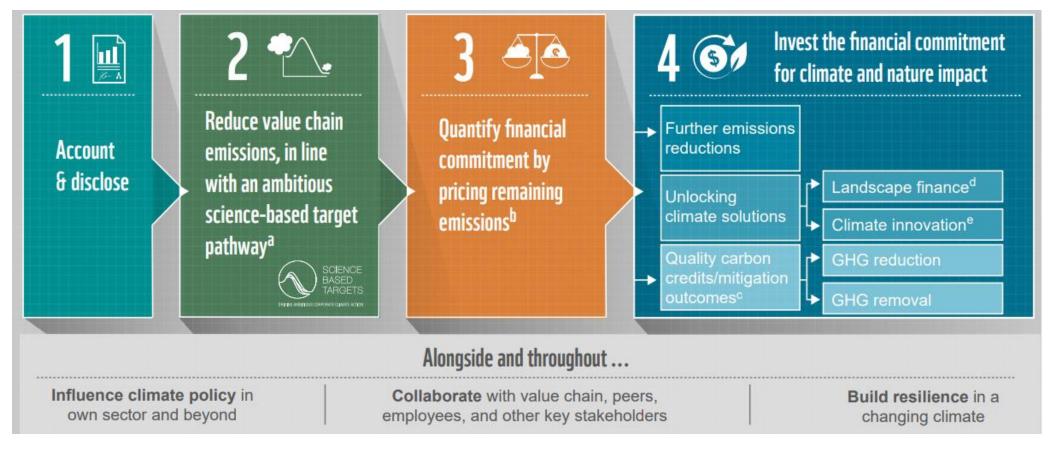
Net zero emissions target announcements





CORPORATE CLIMATE MITIGATION BLUEPRINT



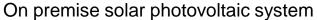


- a. Emissions reductions must be compliant with the Paris Agreement to limit warming to 1.5°C, or at most well-below 2°C, above pre-industrial levels, such as by following a pathway provided by the Science-Based Targets initiative.
- b. Companies should disclose assumptions, including the internal carbon price used (even if implicit). Please refer to more detailed guidance on how to size financial commitments in the text.
- c. The term "mitigation outcome" refers to any type of ex-post climate mitigation, whether emissions reductions or the removal and sequestration of emissions from the atmosphere. For readability and simplicity the term "carbon credit" is instead used through the document; however, a carbon credit is a subset of the term mitigation outcome. Please refer to Annex 3 regarding the dimensions of carbon credit quality.
- d. For example: Projects operating at a landscape or jurisdictional level
- e. For example: Technological and R&D innovation, efforts to advance climate business model innovation

INVESTING FOR FURTHER EMISSIONS REDUCTION







- Chiho Environmental Group, a metal recycling listed company in HK (Stock code 976HK) in Yuen Long Industrial Estate
- Leases a 1MW solar PV system from EcoSmart
- Over 2,300 solar panels were installed on the rooftop of factory building
- The system will generate about 1 million kWh per year or equivalent to 240 x 3-person families one-year's electricity consumption



Retro-commissioning of building systems

- Rejuvenate energy and operational efficiency of equipment with no or low cost
- Identify operational improvements and energy saving opportunities
- Raise efficiency of building system and extended equipment life, shorter return on investment (ROI) period
- Improve comfort of occupant and lower operation cost, in return of higher rental or asset value

COLLABORATION WITH VALUE CHAIN AND KEY STAKEHOLDERS



Sustainable

Home

Produc

Corporate Headquarter



Kingfisher plc announces 2025 1.5 degree-aligned carbon reduction targets

Regional Office / Business Units



Kingfisher Asia Limited Sourcing Team Kingfisher Asia Limited Sustainability Team

Supply Chain / Products



Supplier / Sustainable Home Product Supplier / Sustainable Home Product Supplier / Sustainable Home Product





Kingfisher's new 1.5 degree-aligned carbon reduction targets approved by the SBTi. (The business has achieved a 27% cut in operational carbon emissions in four years, meeting its previous target four years ahead of schedule.)

- Reduce Scope 1 & 2 emissions from property and transport by c.38% in absolute terms by 2025, compared to 2016;
- Reduce Scope 3 emissions from the supply chain and customer use of products by 40% per £million of turnover by 2025, compared to 2017..

Products Made for

Sustainability

Sustainable Living

Products for

Upstream Carbon Emissions

The carbon emitted when extracting materials

processing, manufacturing and moving products

O²e

Downstream Carbon Emissions

CO²e











The carbon emitted when using and eventually disposing of products.



Responsibly sourced materials

Sourcing from well-managed forests & other sustainable sources, treating people fairly



Recycled materials

Using waste as a resource



Alternative materials

Switching to materials that have a lower environmental impact



Lower carbon manufacture

Encouraging factories to be energy efficient, addressing carbon in the supply chain



Building biodiversity

Helping nature in our gardens and outdoor spaces



Protecting health

Making homes safer environments addressing pollution



aving energy

Energy efficiency, using renewable energy



Saving water

Water efficiency, preventing flooding, using rainwater



Saving resources

Reduce, rent, reuse, repair, recycle, compost

TOWARDS NET ZERO

Criteria

ACHIEVING NET ZERO WITH SEVEN SPHERES OF ACTIONS



Nurturing a sustainability mind-set

~Otto Int'I's reusable glass bottles save 80% cost

Encouraging low-carbon habits

~HKBN's 34% paper reduction campaign

alking about management policy & carbon reduction goals ~Wharf T&T's 7 years x 2% reduction target

Zooming in on energy efficiency investment

~Kai Shing MC5's i-actuator saves 50% water flow

Exploiting opportunities for refurbishment, retrofitting and renovation

~Lidl reuses 90% furniture in the new office

Reaching out to communities and stakeholders

~SaSa's Global Greenovation Challenge

Offsetting unavoidable carbon emissions with renewable energy projects

~Kai Shing Landmark North Gold Standard credits

Source: LOOP 7 Greencheck videos

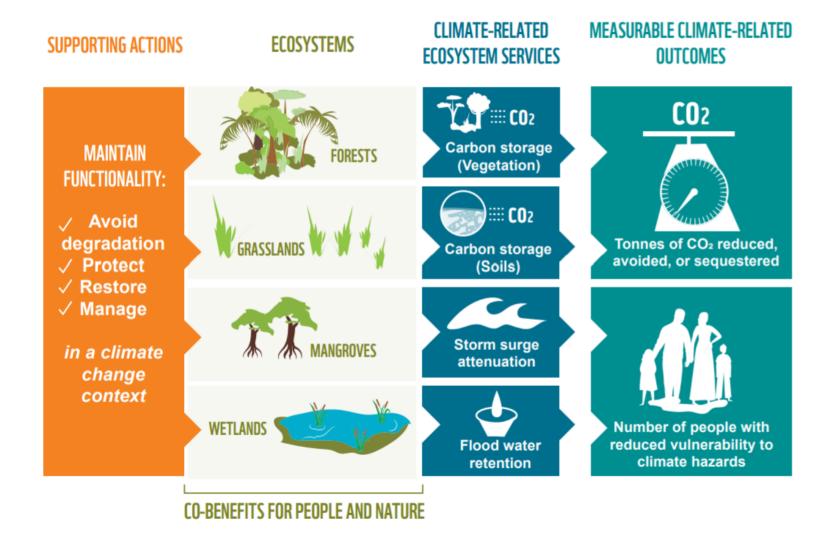


BUILDING RESILIENCE WITH NATURE-BASED SOLUTIONS



For WWF, Nature-based Solutions for climate change are:

"Ecosystem conservation, management and /or restoration interventions intentionally planned to deliver measurable positive climate adaptation and /or mitigation benefits that have human development and biodiversity cobenefits managing anticipated climate risks to nature that can undermine their long-term effectiveness."



NATURE-BASED SOLUTIONS 11

UNLOCKING CLIMATE SOLUTIONS - POWERING OUR WETLANDS





Workstream 3: Sustainable use of biomass cellulose for fashion products







Workstream 2: Create a landscape of ecofishponds for climate adaptation and resilience building





Workstream 4: Connect and share learnings with stakeholders











KNOWING OUR FOOTPRINT



1. LOCAL GHG EMISSIONS

~40,100,000,000 KG IN 2019



Fuel Mix: 44% Coal-fired 29% Gas-fired 27% Nuclear (<1% local RE) 2. EMBODIED CARBON

rom imported goods and end-of-life



3. TRANSBOUNDARY & INT'L Aviation and maritime emissions



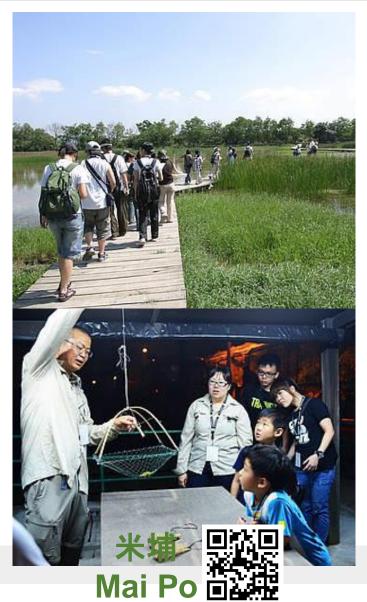
A round trip from HK to Tokyo by plane is 420 KG CO2e, relative to 5,620 KG per capital per annum production-based CO2e in 2019

TAKEWAY:

- 1. Production vs Consumption-based emissions
- 2. Embodied vs Operational carbon
- 3. Linear vs Circular economy

LEARNING FROM NATURE







Island House 画為



CHANGING OUR HABITS FOR GOOD CAUSE



There are abundant resources available to support you live a more sustainable lifestyle.

- Visit wwf.org.hk, follow us in FB, IG
- 2. The 337 green tips from WWFHK
- English version: http://awsassets.wwfhk.panda.org/downloads/wwf_green_tips_english.pdf
- Chinese version: http://awsassets.wwfhk.panda.org/downloads/wwf_green_tips_chinese.pdf
- Educational video from WWFHK
- Green Food Challenge: https://www.facebook.com/wwfhongkong/videos/2454204258162240/
- Sustainable Clothing: https://www.facebook.com/wwfhongkong/videos/2679620772085488/
- Walk More Drive Less: https://www.facebook.com/wwfhongkong/posts/10156902453826892
- 4. Energy Saving, Waste Less and Low Carbon Living Style from EPD HK
- https://www.epd.gov.hk/epd/sites/default/files/epd/english/how_help/living_st yle/files/Cloth%2C%20eat%2C%20live%20and%20commute.pdf

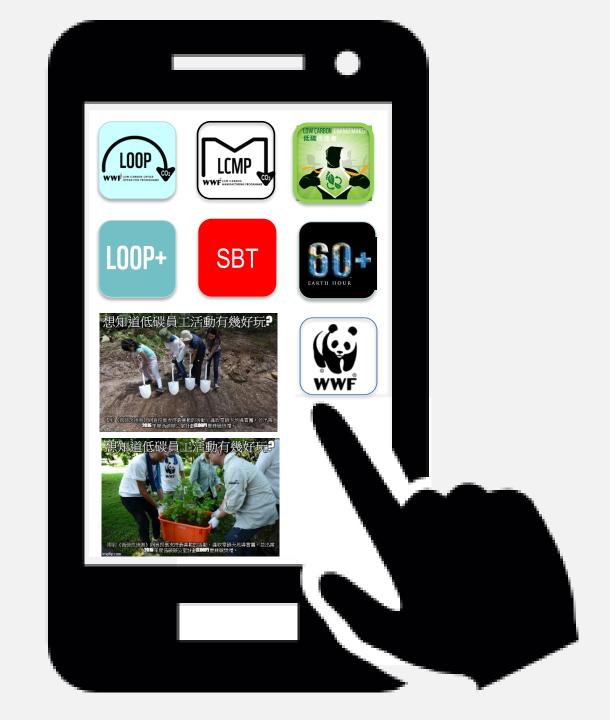




CALL TO ACTION

Together, we build a sustainable future where people and nature thrive!.

- 1. Stay informed, visit wwf.org.hk, subscribe enews and/or follow us on FB, IG, Linkedin
- 2. Take up a new habit and protect the environment.
- 3. Challenge yourself and practice low-carbon sustainable lifestyle
- 4. Ask yourself what and how you can help future-proof our communities or neighbourhood.
- 5. Collaborate with us and transform Hong Kong into one of the most sustainable cities in Asia.
- Be our member, individual or corporate, and support our conservation and education work
- Use your expertise and join as volunteers or community scientists
- 8. Spread the conservation messages with your family, friends or business partners.



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