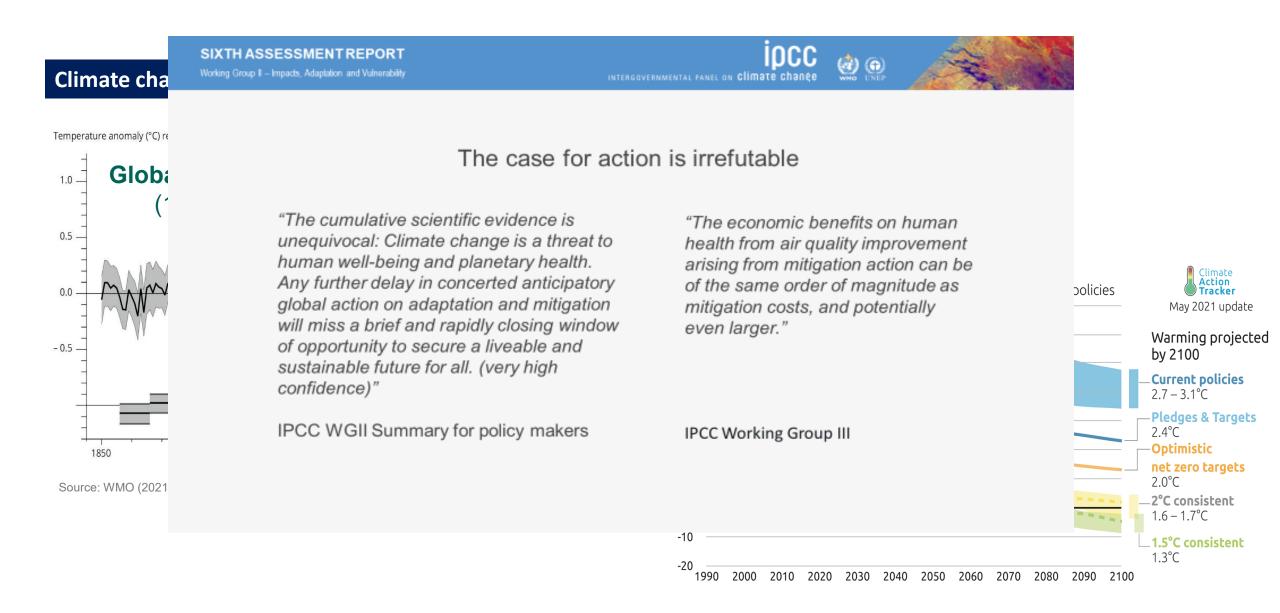
Climate change and health - the WHO perspective

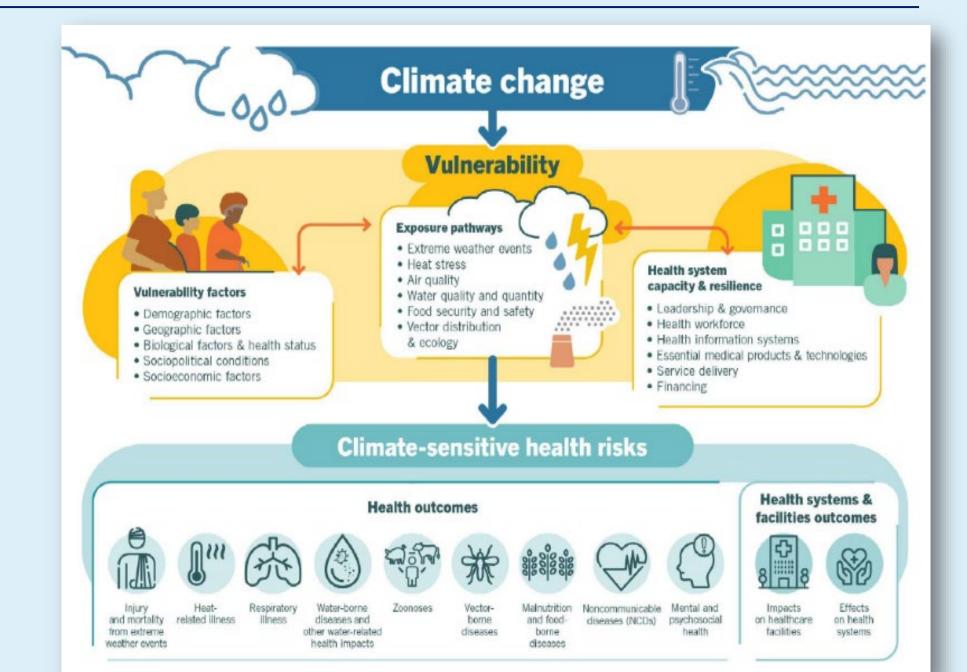




Climate change is breaking records



Vulnerabilities and pathways of climate health risks

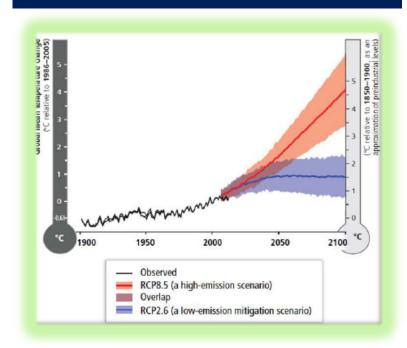




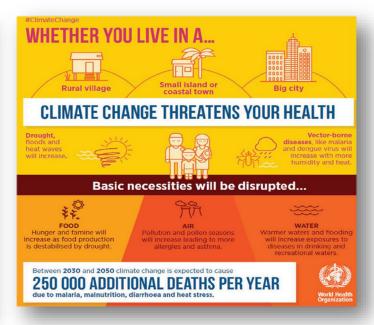
Help reduce carbon emissions for promoting health (air pollution)

Make health systems more sustainable (lead by example)

Protect health from full range of climate risks



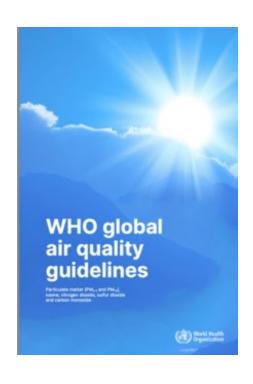




Help reduce carbon emissions for promoting health (air pollution)



Health co-benefits of tackling CC and air pollution





Efforts to improve air quality can enhance climate change mitigation, and climate change mitigation efforts can, in turn, improve air quality.

All this enhance people's health.

AQGs are a powerful tool for climate action

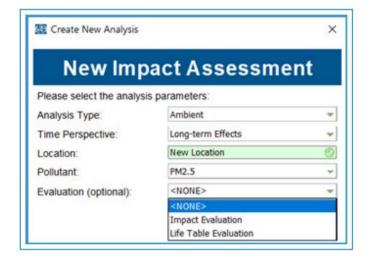
Linking climate change mitigation, air quality and health - WHO tools

CLImate Mitigation Air Quality - Health



CLIMAQ-H (formerly CaRBonH): a tool to quantify health and economic effects of climate change mitigation through air quality improvements. Key questions addressed:

- Which air pollution and health benefits have been achieved through reductions in domestic carbon emissions for the proposed climate policies under the NDCs submitted by Member States to the UNFCCC?
- What would the magnitude of the economic benefits due to the future changes in health effects expected under the NDCs be?



AirQ+: a tool for health risk assessments of air pollution can be used, with some limitations, for cities, countries or regions to estimate:

- How much of a particular health effect is attributable to selected air pollutants?
- Compared to the current scenario, what would be the change in health effects if air pollution levels changed in the future?

Make health systems more sustainable (lead by example)

- Climate action is an opportunity to explore synergies to improve health services and infrastructure towards a low-carbon and resilient health sector.
- □ The health sector:
- has to adapt and become resilient to climate change
- needs to reduce greenhouse gas emissions from its operations, contributing to mitigation efforts



https://www.who.int/activities/building-capacity-on-climate-change-human-health/toolkit/resilience https://www.who.int/publications/i/item/checklists-vulnerabilities-health-care-facilities-climate-change https://www.euro.who.int/en/health-topics/Health-systems/public-health-systems-a-strategic-document-2017

Example of an assessment and possible interventions - energy



ENERGY LEVEL OF IMPACT MAJOR MODERATE MINOR ☐ Power failure ☐ Temporary power supply No ambient cooling interruption Shutdown of cold storage systems Loss of food or difficulty Difficulty in providing critical in refrigerating food ☐ Interruption in providing health care health care service deliveries services that require electricity such □ Reduced capacity (dialysis, oxygen therapy, to follow boil water as dialysis, oxygen therapy, diagnosis diagnosis equipment), equipment advisories causing patients to be Loss of vaccines, laboratorial supplies, evacuated to other health drugs, parenteral nutrition and blood facilities supplies, pharmaceuticals, food supply, Reduced capacity to provide and other essential refrigerationservices that need electricity dependent medical supplies (laundry, dishwashing Damage to emergency generator or other machines, etc.) sources of energy Reduced capacity to provide ☐ Disruption of the fuel supply chain disinfection services that □ Disruption of energy-dependent water need electricity (autoclave, pumping and treatment systems microwave, water boiler)

(Energy - environmental sustainability)

Interventions (level of achievement) Low, unavailable, unable	Action level		vel	Observations
Medium, in progress, incomplete High, completed, achieved				Observations
Prioritized energy sources and saving measures which are least costly to introduce and/or those which would bring the biggest saving				
Installed energy-efficient lighting (such as light emitting diode (LED))				
Natural light used wherever possible				
Opening windows (with installed mosquito nets where required) and making use of natural air flow and light				
Added occupancy sensor switches for lighting in frequently unoccupied spaces				
Replaced older air conditioners, refrigerators and other appliances and medical equipment with energy efficient models				
Improved energy efficiency of the health care facility vehicles fleet, and encouraging staff, patients and visitors to walk or use car pools, public transport, or bicycles whenever possible*				
Health care facility fossil fuel consumption reduced by use of renewable energy sources, including solar (photovoltaic) power, wind power, hydro power and biofuels*				





Protect health from full range of climate risks

WHETHER YOU LIVE IN A...

Rural village

Small Island or coastal town

CLIMATE CHANGE THREATENS YOUR HEALTH

Prought, floods and leat waves will increase.

Basic necessities will be disrupted...

Pollution and pollen seasons will increase as food production is destabilised by drought.

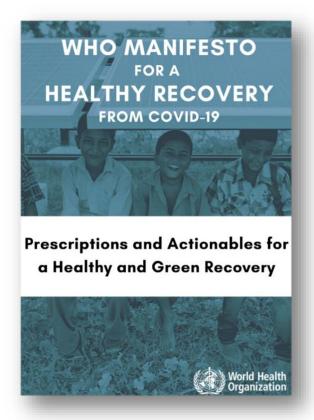
Between 2030 and 2050 climate change is expected to cause

250 000 ADDITIONAL DEATHS PER YEAR due to malaria, malnutrition, diarrhoea and heat stress.

Integrating health in climate action and scaling climate action for health

- WHO global and regional frameworks
- Building and strengthening partnerships
- Developing evidence for action
- Strengthening capacities
- Leadership and advocacy

COP26 Health Programme (who.int)



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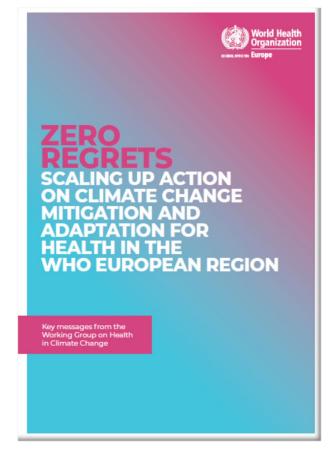
Supporting climate action to protect health



WHO ECEH – European Centre for Environment and Health

- □ Providing evidence-based policy advice
- Generating evidence on the health co-benefits from de-carbonization
- □ Offering guidance and tools, including on heat health action and other CC-induced events
- □ Supporting countries in building climate-resilient health systems
- Advocating for health considerations in national adaptation planning
- □ Supporting countries in achieving commitments of the 2017 Ostrava Declaration

From HIC towards COP 26 and beyond....





Support to the health messaging at COP26 and to the discussion towards the next Ministerial Conference on Environment and Health

Climate change as a public health crisis calling for coordinated transformative efforts

Climate change and COVID-19: two converging health crises with a joint way forward

The narrow window of opportunity calling for urgent action at scale

Calls for health-oriented action: seizing opportunities for local and national climate action



WHO/Europe | Zero regrets: scaling up action on climate change mitigation and adaptation for health in the WHO European Region. Key messages from the Working Group on Health in Climate Change (2021)



Thank you!

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