Air quality and health effects

WHO resources and support

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In the beginning there was…

Health Sector Role

Synthesize Evidence; Develop Guidelines; Track Progress

• Provide evidence based guidelines on health impacts of sustainable development & green economy strategies /technologies

• Develop evidence-based guidelines supporting effective interventions

• Use Health Impact Assessment (HIA) and other tools to assess policies and their health impacts

• Guide, define and monitor exposure and health indicators to measure results and contribute tracking to the SDGs (i.e. 7.1.2, 11.6.2, 3.9.1)

• Convene and advise Ministries of Health, Energy and Environment to effectively address public health issues
WHO guidelines for air quality

Update of WHO Global Air Quality Guidelines
Evidence base:

- Future regular updated evidence on Air Pollution on Health?
Evidence based

- Systematic reviews on interventions and pollutants
- Risk communication & health advisories
- Interventions & economic assessments

Defining clean, transitional and polluting household energy solutions based on carbon monoxide emissions
15 January 2019

Systematic Review of Health Effects of Dust and Sand Storms

Aurelio Tobias, Angeliki Karianou, Fulvio Amato, Xavier Querol
Institute of Environmental Assessment and Water Research (IDAE), Spanish Council for Scientific Research (CSIC), Barcelona, Spain.

Risk communication and personal level intervention to reduce exposure and to minimize the health effects of air pollution

Summary report from the WHO Expert Consultation 12-14 February 2019, Geneva Switzerland

Please do not cite, quote or distribute
Monitoring and reporting

SDG reporting and associated activities

- Refinement of exposure to PM2.5
- Further development of household energy use modelling
- Methods of exposure assessments (e.g. low cost sensors, ground monitoring stations, catalogue of methods)
- Methods and criteria for health impact assessments (incl. best practice guide)
Global Platform on Air Quality and Health

Regular expert gathering since 2014

- **Aim:** Strengthening countries capacity to address air pollution and related health risks through enhanced estimates of air pollution exposure

- **Wide collaboration:**
  - Research institutions (HEI, JRC)
  - National agencies (US EPA, SPF)
  - Space research agencies (NASA, JAXA)
  - International agencies (WMO, UNEP, IIASA, World Bank)

- Governance to be redefined to adhere to the WHO’s rule
Outputs since the first meeting

- Systematic review on source apportionment

Review article

Contributions to cities' ambient particulate matter (PM): A systematic review of local source contributions at global level

Federico Karagulian, Claudio A. Belis, Carlos Francisco C. Dora, Annette M. Prüss-Ustün, Sophie Bonjour, Heather Adair-Rohani, Markus Amann

- Via Caravaggio 16, I-28922 Verbania, Italy
- World Health Organization, Department of Public Health and Environment, 20 Avenue Appia-1211 Geneva 27, Switzerland
- International Institute for Applied Systems Analysis (IIASA), Schlossplatz 1, A-2361 Laxenburg, Austria
- European Commission, Joint Research Centre, Institute for Environment and Sustainability, Via Enrico Fermi 2749, Ispra, VA 21027, Italy
Development and application of analytical tools to support the assessment of the health and economic impacts of interventions in key sectors, including transport, household energy, green space and land-use, solid waste management (open source, flexible, evidence-based tools)
WHO set a group of main contributors and expert reviewers for the material.

Air Pollution and Health – Toolkit for clinicians: in-person workshop

Modules for slide decks (Power Point presentations) and flipcharts

Training of Trainers (ToT) Manual

Information resources, communication and outreach material
## List of modules (some examples)

[ Ongoing work]

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**Special Epidemiological Modules**

- Assessing air pollution impacts
- Surveillance and monitoring health data
- How to build the scientific evidence and synthetize it
The Health and Energy Platform of Action (HEPA)

Vision:

Accelerating the transition to clean energy to improve health and livelihoods

How?

By strengthening the political and technical cooperation between the health and energy sectors through a multi-stakeholder platform of action (governments, civil society, UN, private sector), by building and/or strengthening existing national coordination mechanisms on energy and health policies and programmes

Initial focus:

Clean cooking and healthcare facilities
Very high participation

About 900 participants

National and city governments, intergovernmental organizations, society, philanthropy, research and academia

Clean Air for All: Geneva Action Agenda

The outcomes of the conference call for enhanced action on a number of points highlighted at the conference:


NB: This document does not reflect intergovernmental agreement or consensus, nor decisions reached by the attendees.
Health and the environment: addressing the health impact of air pollution

The Sixty-eighth World Health Assembly,

Having considered the report on health and the environment: addressing the health impact of air pollution,

Reaffirming its commitment to the outcome document of the Rio+20 Conference “The future we want”, in which all States Members of the United Nations committed to promoting sustainable development in accordance with the United Nations宪章,

Agendas item 14.6

Health and the environment

Draft road map for an enhanced global response to the adverse health effects of air pollution

Report by the Secretariat

EXECUTIVE BOARD
144th session
Provisional agenda item 5.6

Health, environment and climate change

Draft WHO global strategy on health, environment and climate change: the transformation needed to improve lives and well-being sustainably through healthy environments
Thank you