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A woman wearing a white hard hat and a high-visibility safety vest stands in front of a stack of shipping containers. The containers are in various colors, including orange, blue, and green. The woman is looking directly at the camera with a neutral expression.

We care for the right to clean air: **UNIDO work**
towards ensuring that we share clean air



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A UNIDO technical presentation to commemorate

The International Day of Clean Air for blue skies 2022: The air we share

Mr. Ole Nielsen, Chief of the Montreal Protocol Unit, UNIDO

Wednesday, 7 September 2022

The Lancet Commission on Pollution and Health* found that

**Pollution killed an
estimated 9 MILLION
people in 2015...**

**3 TIMES MORE than
AIDS, tuberculosis
and malaria combined.**

9 MILLION = **16%** of all deaths
premature deaths worldwide

*Supported by EU, UNIDO, USAID and Pure Earth, among others

https://www.unido.org/sites/default/files/files/2019-10/The%20Lancet%20report%20_%20PIIS0140673617323450.pdf



Introduction

This presentation highlights key features of UNIDO's approach to tackle air pollution and climate change.

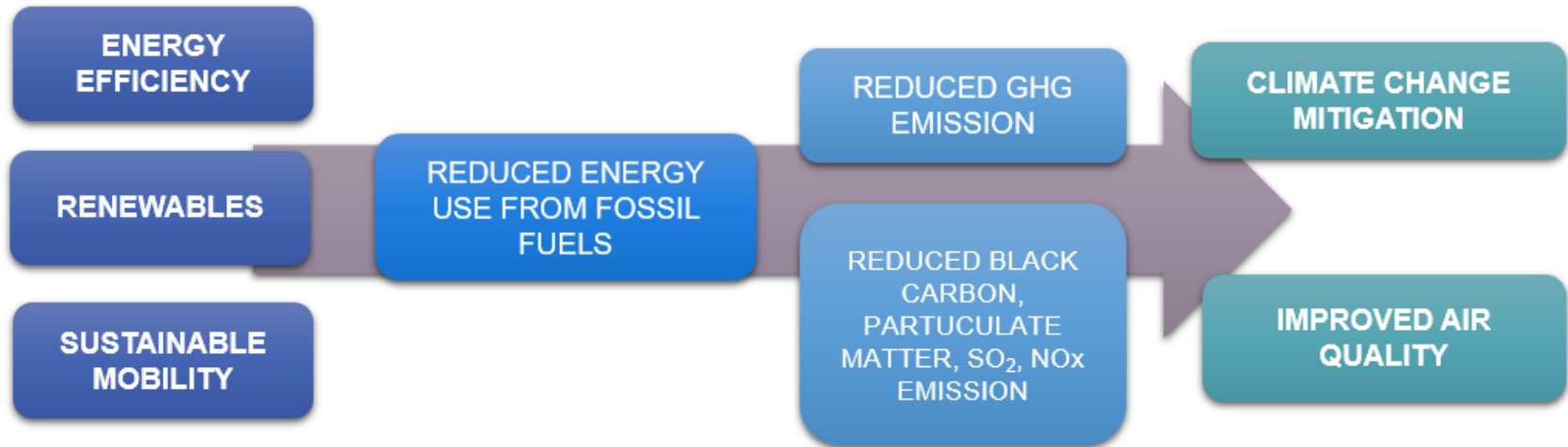
The approach requires strengthening our focus on *resource-efficient and low-carbon industrial production*

It also requires deepening our partnerships with governments, donors, UN partners, industries, academia, NGOs, media and other key stakeholders sharing common goals.



UNIDO approach to tackle air pollution and climate change 1/4

- Energy from environmentally clean, renewable sources





UNIDO stakeholders on programmes and priorities related to energy

industry

Decarbonisation of

Energy efficiency and renewable energy applications in industry



Energy intensive industries: Innovation, hydrogen and demand stimulation



Digital, artificial intelligence and

development
Low carbon industrial

Minigrids for rural development
Electric mobility



Energy supply for industrial clusters, district energy

and investment
Clean energy business development

Cleantech innovation for both climate change mitigation and adaptation
and clean value chains
Investment facilitation



Global Agenda Setting



Global Network of Regional Energy Centers



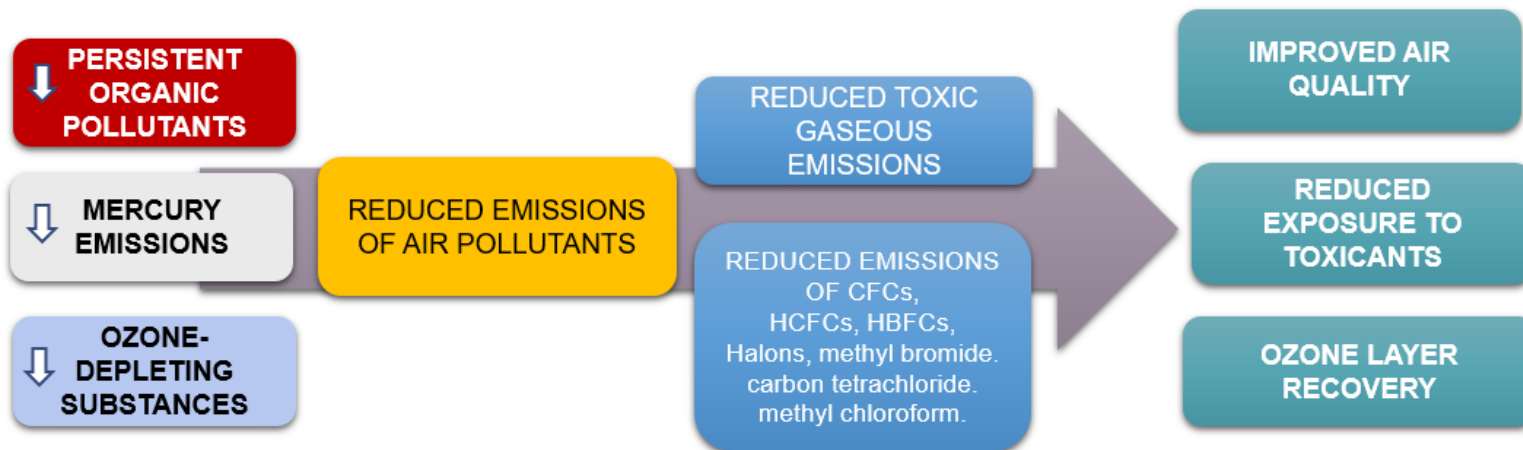
Climate Technology Centers and Network



Global programmes and in-country action

UNIDO approach to tackle air pollution and climate change 3/4

- Reducing/eliminating emissions of toxic and ozone-depleting air pollutants



UNIDO approach to tackle air pollution and climate change 4/4

- Partnerships with key stakeholders sharing common goals





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Illustrative Examples





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Health and Pollution Action Plans (HPAPs)

Partners: **UNIDO, the European Commission, Global Alliance on Health and Pollution**

- Five countries: **Colombia, Ghana, the Kyrgyz Republic, the Philippines, and Tanzania.**
- Bring together national Ministries and partners for concrete action on environmental health.





Clean cooking

Partners: UNIDO, the Global Environment Facility (GEF), other

- **Three billion** people continue to use solid fuels and open fires for cooking, heating and lighting.
- **3.8 million** premature deaths linked to indoor pollution.
- UNIDO works in **Tanzania** with governments to convert 500,000 middle-income households to clean cooking fuels. Incentives to produce bioethanol and to set up female-led distribution network.
- Plans to roll this out to 20 countries across **Africa** and **Asia**.





E-mobility

Partners: UNIDO, the Global Environment Facility (GEF), other

- Global car fleet due to triple by 2050 = fastest-growing greenhouse gas emissions from any sector.
- UNIDO is supporting e-mobility in a number of countries, including South Africa, China and Malaysia.
- Examples include setting up low-carbon urban transportation demonstration zones in Shanghai and addressing gaps and barriers to electric vehicle adoption and production in Thailand.





Chemicals and waste management

Partners: UNIDO, the Global
Environment Facility (GEF), the
World Health Organization,
various

- E-waste = fastest-growing waste stream in world.
- UNIDO assists with e-waste management in various countries, including 13 countries across Latin America. This is to avoid air emissions of PBDEs, dioxins and furans due to improper processing.





Artisanal and Small-Scale Gold Mining (ASGM)

Partners: UNIDO, the Global Environment Facility (GEF), other

- ASGM sector responsible for around 400 MT of airborne elemental mercury emissions = the largest mercury emissions into the environment and around a third of the world's total.
- To tackle this problem at the source, for over 20 years UNIDO has been supporting the Minamata Convention and assisting ASGM mining communities by introducing mercury-free technologies, best practices, and assisting with policy reform.





Refrigeration and Cooling

Partners: UNIDO, Multilateral Funds of the Implementation of the Montreal Protocol, the Global Environment Facility (GEF), various

- A variety of ozone-depleting substances (ODS) can be found in everyday products, from refrigerators to fire extinguishers.
- When released into the atmosphere, these chemicals effectively diminish UV protection for humans and the environment.
- UNIDO works with over 70 countries to prevent climate change and protect human health by reducing the consumption, production and emissions of ODS and substances with high global warming potential (or high GWP), commonly referred to as greenhouse gases (GHG).





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UNIDO's Global Programme for Green Hydrogen in Industry

Partners: UNIDO, Austria, Germany, Italy and the International Hydrogen Energy Centre in China

- Energy-intensive sectors (cement, chemical, steel, aluminum, aviation, trucking and shipping) emit 11.2Gt of greenhouse gases per year, equivalent to 20% of total global emissions
- Programme launched in July 2021
- Aims to foster the application of green hydrogen in industry in developing countries and transition economies.





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A full-page photograph of a smiling man with a beard and a plaid shirt over a white t-shirt, standing in a greenhouse. He is holding a black tray filled with small green seedlings. The background shows the curved structure of the greenhouse and rows of plants.

THANK YOU!