

UNDP chemicals and waste portfolio and highlights of an MLF-funded project in Bangladesh

29 April 2021

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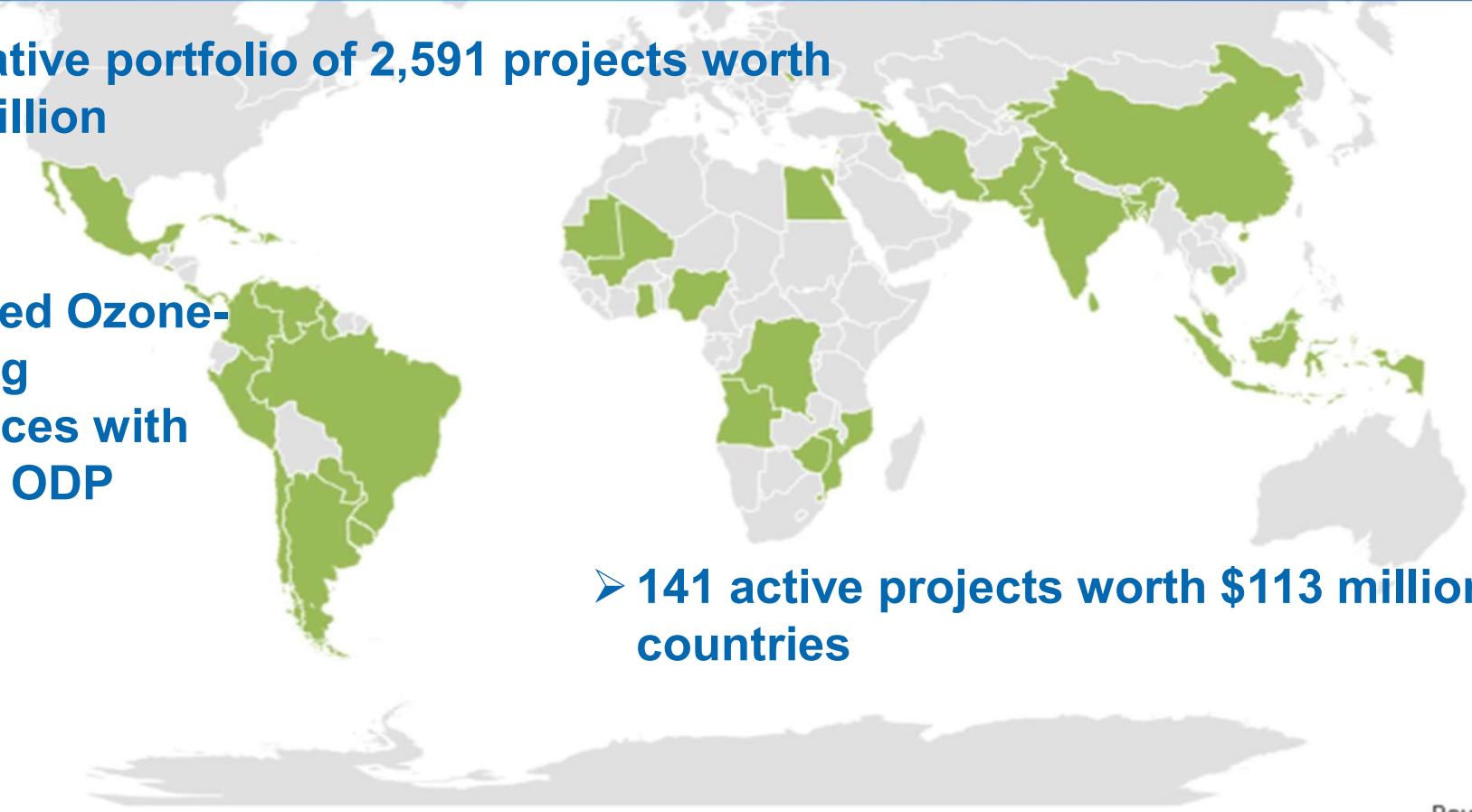
UNDP portfolio funded by MLF



➤ Cumulative portfolio of 2,591 projects worth \$837 million

➤ Eliminated Ozone-Depleting Substances with 68,400.5 ODP tonnes

➤ 141 active projects worth \$113 million in 47 countries



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UNITED NATIONS DEVELOPMENT PROGRAMME

UNDP portfolio funded by GEF



➤ Cumulative portfolio of 146 projects with \$422 million from GEF

➤ 23,814 tonnes of POPs and 12 tonnes of mercury eliminated/reduced

➤ 76 active projects worth \$303 million in 53 countries



HYDROFLUOROCARBONS (HFCs)

HFCs are powerful man-made greenhouse gases that are rapidly building up in the atmosphere.

CONSUMPTION HFCs are a group of industrial chemicals primarily used for air conditioning and refrigeration.

RESIDENTIAL, COMMERCIAL AND INDUSTRIAL AIR CONDITIONING AND REFRIGERATION



HFC consumption today...



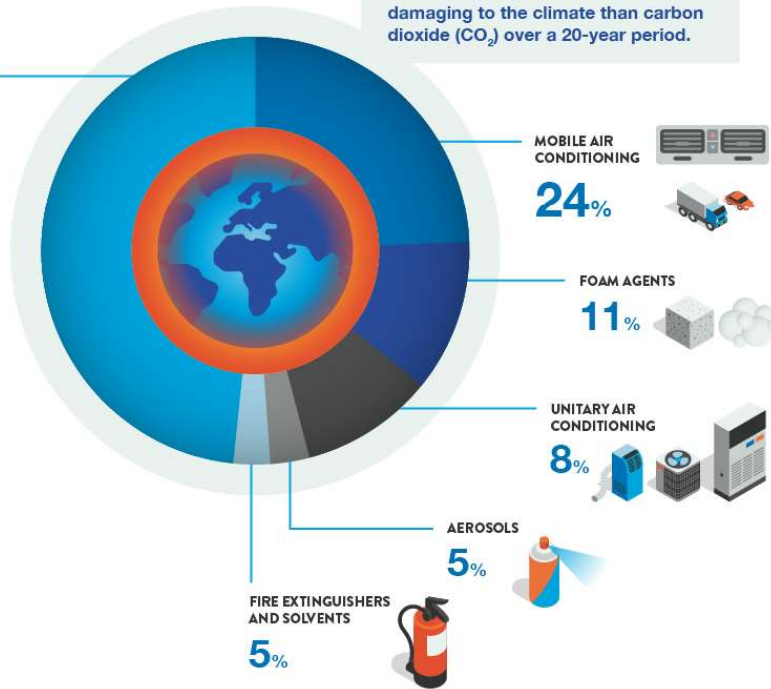
- filling new equipment
- topping up leaking equipment

Up to 10 air conditioners will be sold every second over the next 30 years

% = global emissions

LIFETIME IN ATMOSPHERE:
15 YEARS (AVERAGE WEIGHTED BY USE)

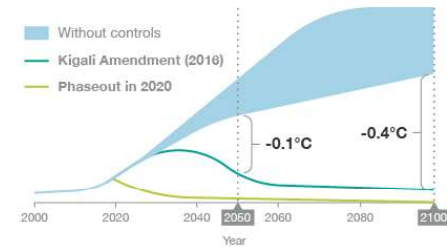
Many HFCs are short-lived climate pollutants. The most abundant of these, HFC-134a, is 3,790 times more damaging to the climate than carbon dioxide (CO₂) over a 20-year period.



AVOIDING FUTURE EMISSIONS

HFC emissions will quickly grow without action. Under the Kigali Amendment, countries have committed to reduce the production and use of these gases by 85% by 2050.

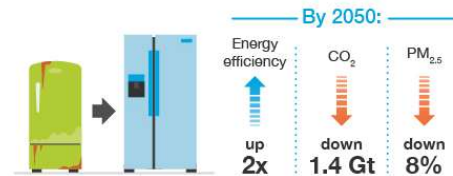
This would avoid up to 0.1°C of warming by 2050 and up to 0.4°C by 2100.



ADDED BENEFITS OF ENERGY EFFICIENCY

Almost 80% of the climate impact from cooling comes from the electricity generated to power the equipment.

Improving air conditioning efficiency could cut CO₂ and air pollutant emissions from power generation and as much as double the climate benefit of the Kigali Amendment.



Combining funding to phase out the use of harmful of chemicals



- Walton Hi-Tech: phasing out the use of HFC-134a and replacing it with isobutane
- Funding: \$3.1 mln from MLF, \$0.2 mln from K-CEP, \$3.8 mln from Walton
- Duration: Jan 2018 – Dec 2019
- Results: Phase out of the use of 197.30 metric tonnes of HFC-134a in manufacturing
- Avoiding the direct emission of ~ 8 million tons of CO₂-equivalent of HFC-134a and estimated indirect emissions of ~ 35 billion tons in the period from 2020 to 2050 due to the energy efficiency gains



For more information, please go to <https://bit.ly/3gLBLEK>



THANK YOU!