



**GREENING
THE
BLUE**



The UN System's Environmental Footprint

Findings of the UN Greening the Blue Report 2023

25 JAN 2024 | 15:30 - 17:00 CET | IEH1, ROOM 2 & ONLINE

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THE UN SYSTEM'S ENVIRONMENTAL FOOTPRINT

Findings of the UN Greening the Blue Report 2023



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Diana RIZZOLIO

Coordinator, Geneva Environment Network



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Greening the Blue Report

2023

The UN System's Environmental
Footprint and Efforts to Reduce It

“The world must work together to address the **triple planetary crisis of runaway climate change, biodiversity loss, and pollution.**

We at the United Nations must do our part with advocacy and action. I encourage all UN entities to set an example by **greening the blue.”**

- António Guterres, UN Secretary-General

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SPEAKERS

By order of intervention.



Rie TSUTSUMI



Coordinator, Sustainable United Nations, UN Environment Programme



Bethany PADFIELD



Communications Consultant, Sustainable United Nations



Agnès LOSTIS



Environmental Project Manager | Greening the Blue Focal Point, World Intellectual Property Organization



Adam OSTASZEWSKI



Energy Data Officer, International Organization for Migration



Dominic GRACE



Deputy Director, Finance and Admin Department, Head of Global Mobility and Infrastructure Services, United Nations High Commissioner for Refugees



Jacob S. HALCOMB



Programme Officer, Sustainable United Nations | Moderator



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2050Today Charter

Decarbonising International Geneva Together



Consult the 2050Today Charter

CONSEIL POUR LE CLIMAT :

**13 RECOMMANDATIONS
POUR LE CONSEIL D'ÉTAT
GENEVOIS**



**Geneva Conseil du Climat
13 RECOMMENDATIONS
FOR GENEVA STATE COUNCIL**

Consult the Report



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Technical Information

- Throughout the event, you may raise your questions in the Q&A box
- Automatically translated subtitles in many languages are available through the captions button on the bottom left of your screen
- The recording, summary and documents will be made available on the event's website

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**ENGLISH CAPTIONS CAN BE
ACTIVATED BY CLICKING ON THE
BUTTON ON THE LEFT-SIDE OF THE
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Moderated by Jacob S. HALCOMB | Programme Officer, Sustainable United Nations

Opening

- Rie TSUTSUMI | Coordinator, Sustainable United Nations, UN Environment Programme

Presentation of Findings of the Greening the Blue Report 2023

- Bethany PADFIELD | Communications Consultant, Sustainable United Nations, UN Environment Programme

Panel Discussion

- Agnès LOSTIS | Environmental Project Manager | Greening the Blue Focal Point, World Intellectual Property Organization
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Q&A

Closing



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Rie TSUTSUMI

Coordinator, Sustainable United Nations,
UN Environment Programme

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The image shows the United Nations Secretariat Building in New York City. The building is a large, light-colored stone structure with a prominent entrance. Above the entrance, a sign reads "UNITED NATIONS" on the left, the United Nations logo in the center, and "NATIONS UNIES" on the right. In front of the building, there are two long rows of flagpoles, each topped with a gold finial. The flagpoles are filled with the national flags of various countries, including the United States, the United Kingdom, and many others. The sky is clear and blue. The overall scene is bright and formal.

UNITED NATIONS  NATIONS UNIES

PRESENTATION OF FINDINGS OF THE GREENING THE BLUE REPORT 2023

A decorative horizontal bar at the bottom of the text area, consisting of a gradient of colors from light green on the left to dark blue on the right.

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Bethany PADFIELD

Communications Consultant,
Sustainable United Nations

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Greening the Blue Report 2023

UN System-wide Data Highlights Presentation

Date created: January • 2023



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Greening the Blue Report 2023

UN System-wide Data Highlights



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Greening the Blue Report 2023 provides UN system-wide 2022 data.

The data covers the environmental impact areas and management functions identified in the *Strategy for Sustainability Management in the United Nations System 2020 – 2030, Phase I: Environmental Sustainability in the Area of Management*.

The *Report* highlights the 2022 environmental impacts of **308,000 personnel** in **57 reporting entities** across Headquarters, field offices and operations on the ground.

Entity-level data is available on greeningtheblue.org/performance/entities

Greening the Blue Report 2023

UN System-wide Data Highlights



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Key findings include:

UN's operations and facilities emitted **1.4 million tonnes of CO₂eq** in total or 4.6 tonnes CO₂eq per capita.

7 UN entities have met or exceeded the criteria for implementing an Environmental Management System.

31 entities have environmental training available for staff.

The average waste generated for the whole UN system was **321 kg/person**.



Greenhouse Gas Emissions

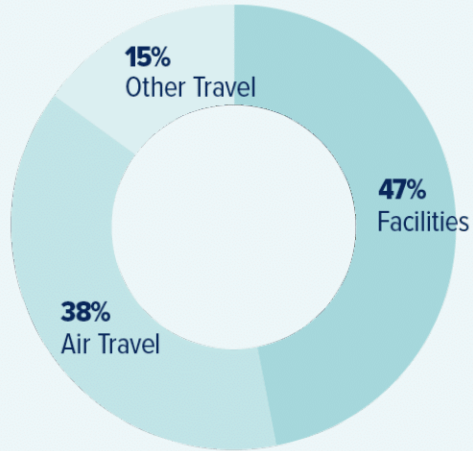


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EMISSIONS BY SOURCE

SHARE OF TOTAL EMISSIONS BY ENTITY



Total emissions

1.4 million tonnes CO₂eq

Per Capita emissions

4.6 tonnes CO₂eq

308,000 personnel in **54 UN entities** are included in this system-wide data

55%
UN Secretariat

8%
WFP

5%
WBG

5%
WHO

4%
UNHCR

4%
UNICEF

2%
FAO

4%
UNDP

2%
IMF

1%
IAEA

1%
UNESCO

1%
UNFPA

4%
IOM

1%
UNRWA

1%
ILO

>1% each
Remaining
entities

1%
UNOPS

1%
UNIDO

Climate Neutrality

92%

OF THE UN SYSTEM'S REPORTED 2022 GHG EMISSIONS ARE OFFSET AS OF THE REPORT'S REPORTED OFFSETTING DEADLINE.

Renewable Electricity

31%

OF THE ELECTRICITY THAT WAS CONSUMED BY THE UN SYSTEM IN 2022 CAME FROM RENEWABLE SOURCES

278,000 personnel in **53 UN entities** are included in this system-wide data



Greenhouse Gas Emissions: UN Secretariat



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Total emissions

**~773,000
tonnes CO₂eq**

The UN Secretariat
comprises over half
(**55 per cent**) of the UN
system's carbon footprint

Per Capita emissions

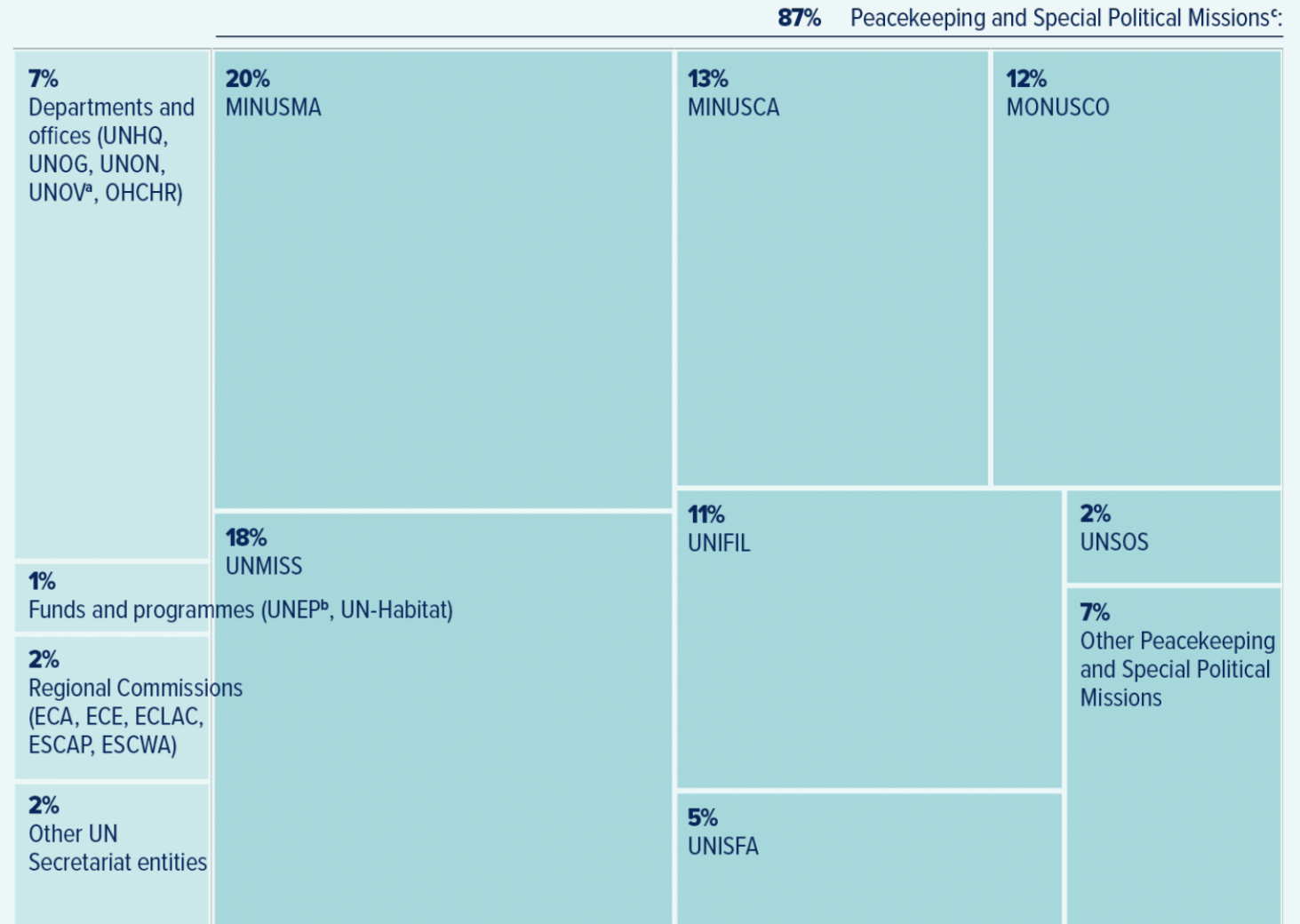
**6.4 tonnes
CO₂eq**

120,000 personnel are
included in this data



Greenhouse Gas Emissions: UN Secretariat

SHARE OF TOTAL UN SECRETARIAT EMISSIONS BY ENTITY



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^a UNOV includes UNODC.

^b UNEP Includes the Secretariat of the BRS conventions, CBD, CITES, CMS, Minamata, MLF and the Ozone Secretariat.

^c Data from each of the Peacekeeping and Special Political Missions are available in a detailed table in the annexes of the Report and as a standalone document at [greeningtheblue](https://www.un.org/en/greeningtheblue).

[org/reports/greening-blue-report-2023](https://www.un.org/en/reports/greening-blue-report-2023). For more information on Peacekeeping, see [peacekeeping.un.org/en](https://www.un.org/en/peacekeeping). For information on Special Political Missions, see dppa.un.org/en.



Waste



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DISPOSAL ROUTES OF WASTE GENERATED BY THE UN SYSTEM

321 kg/person

AVERAGE WASTE GENERATED
FOR THE WHOLE UN SYSTEM

124 kg/person

FOR THE UN SYSTEM EXCLUDING PEACEKEEPING
AND SPECIAL POLITICAL MISSIONS

255,000 personnel in 49 entities are
included in this system-wide data

13%
Reuse, Recycled, Composted
or Energy recovery

7%
Landfill

51%
Controlled disposal

13%
Closed incineration

9%
Open incineration

8%
Other/unknown

These percentages are subject to significant variations year-to-year due to specific circumstances, such as large construction projects. A detailed table with each entity's reported 2022 data is available in the annexes of the *Report* and as a standalone document at greeningtheblue.org/reports/greening-blue-report-2023.



Air Pollution in the Upper and Lower Atmosphere



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AIR POLLUTANTS IN THE LOWER ATMOSPHERE (GROUND-LEVEL)

THE UN SYSTEM UTILIZED

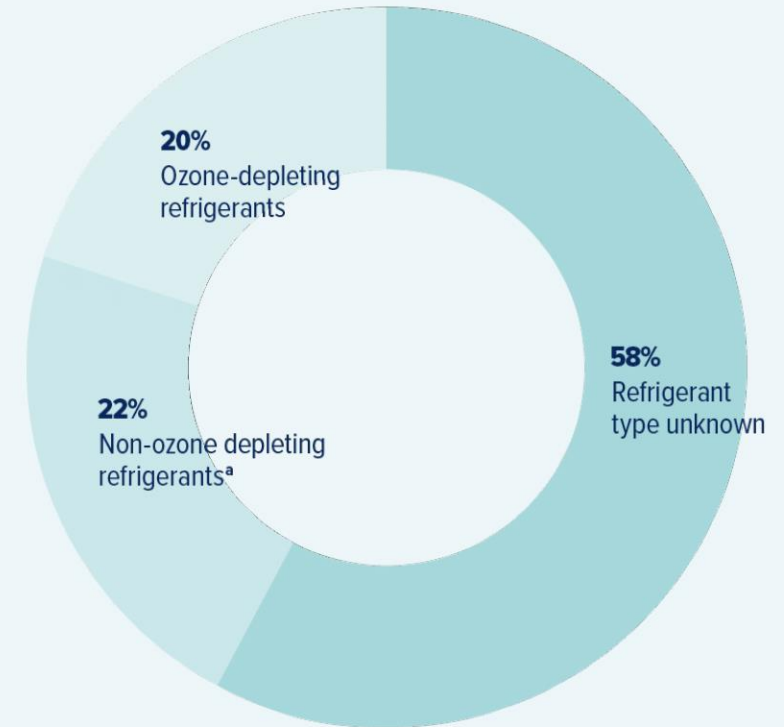
~300 million litres of fuel

TO RUN ITS VEHICLE FLEETS
AS WELL AS ITS FACILITIES' GENERATORS AND BOILERS

308,000 personnel in 54 entities are
included in this system-wide data

OZONE DEPLETING SUBSTANCES IN THE UPPER ATMOSPHERE (STRATOSPHERE)

REFRIGERANT USE IN UN OFFICES



^a Offices that use non-ozone depleting refrigerants include the five per cent of offices that use low Global Warming Potential (GWP) refrigerants.



Water and Wastewater



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49 m³

PER UN PERSONNEL PER YEAR

270,000 personnel in **51** entities are included in this system-wide data

4%

OF THE WATER CONSUMED BY THE UN SYSTEM IS RECYCLED

A detailed table with each entity's reported 2022 data is available at

greeningtheblue.org/reports/greening-the-blue-report-2023



The “**UN Common Approach to Biodiversity**” was adopted in May 2021

2023: A **piloting process for entity-level reporting** on screening for biodiversity impacts

Early results show **16 per cent (9 entities)** have screened or are in the process of screening their facilities

The results will be used to provide for a broad, **system-wide screening of UN facilities**



Environmental Governance

2022 UN System results



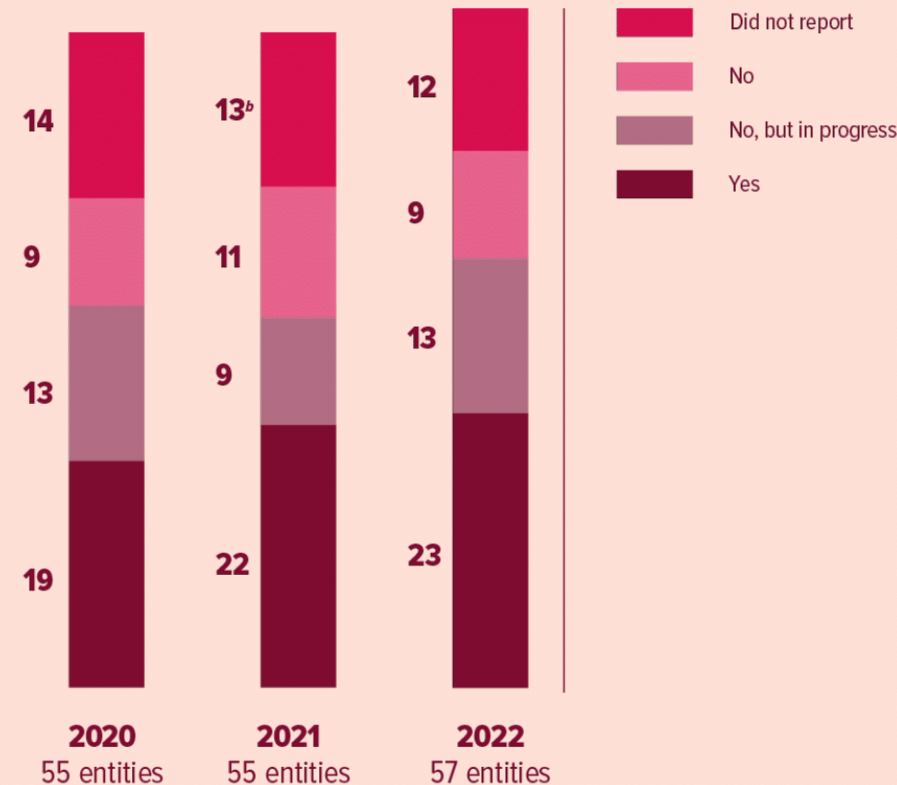
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296,000
personnel in **45**
entities reported
their 2021 data
in this area.

Twelve entities did not report in this area but are included in the system-wide reporting as they represent a sizeable portion of the UN system-wide performance.

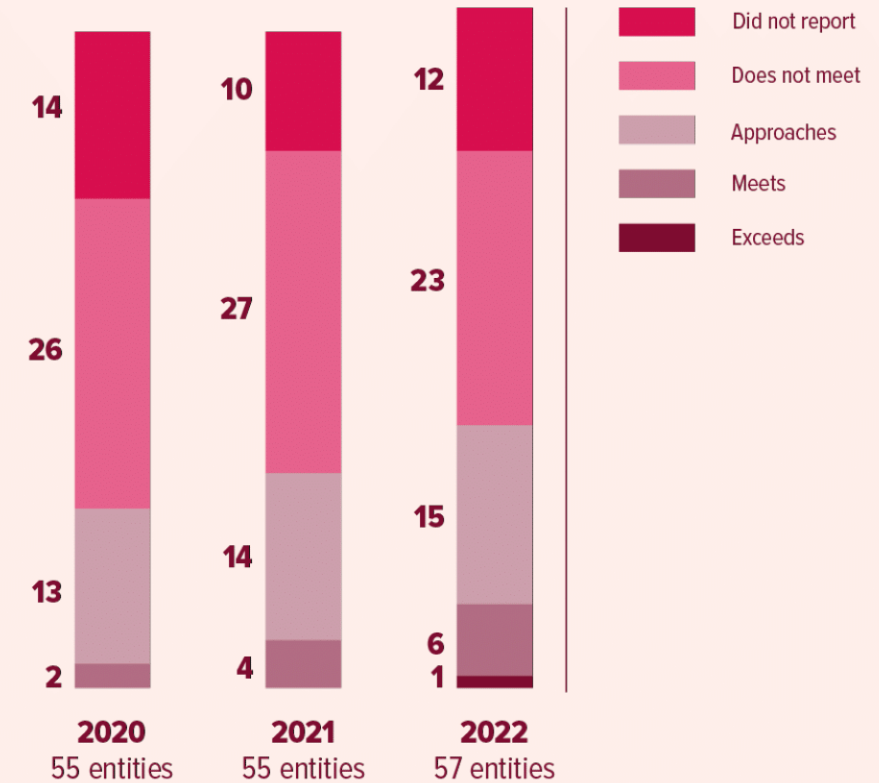
ENTITIES' ENVIRONMENTAL AND SOCIAL SAFEGUARDS
PROGRESS 2020 – 2022^a (NUMBER OF ENTITIES)



^a GCF is included in this data.

^b Includes three entities with the response "unknown."

ENTITIES' ENVIRONMENTAL MANAGEMENT SYSTEM STATUS
2020 – 2022^a (NUMBER OF ENTITIES)



^a GCF is included in this data.



For the 29 UN organizations that submitted sustainable procurement data to the *2022 Annual Statistical Report on United Nations Procurement (ASR)*:

+14%

A 14 PER CENT INCREASE IN 2022, 24 OUT OF 29 ORGANIZATIONS, FROM 2021 IN IMPLEMENTATION OF FORMAL SUSTAINABLE PROCUREMENT POLICIES IN PROCUREMENT PROCESSES (UNOPS 2023, PP. 29–30).

+12%

THE SHARE OF UN ORGANIZATIONS THAT MADE OR PLANNED TO MAKE ADDITIONAL INVESTMENTS IN ENHANCING THEIR INTERNAL CAPACITY FOR SUSTAINABLE PROCUREMENT INCREASED BY 12 PER CENT COMPARED TO 2021 (UNOPS 2023, P. 30).

THE SHARE OF ORGANIZATIONS THAT HAD INCLUDED OR PLANNED TO INCLUDE SUSTAINABILITY CRITERIA IN REQUIREMENTS DEFINITIONS INCREASED FROM

86% in 2021 to
90% in 2022

22 OUT OF 29

22 OF THE 29 ORGANIZATIONS INCORPORATED ALL THREE DIMENSIONS OF SUSTAINABILITY CONSIDERATIONS – ENVIRONMENTAL, ECONOMIC AND SOCIAL (SUCH AS GENDER INCLUSION AND LABOUR STANDARDS) – IN PROCUREMENT (UNOPS 2023, P. 31)



Human Resources

2021 UN System results¹



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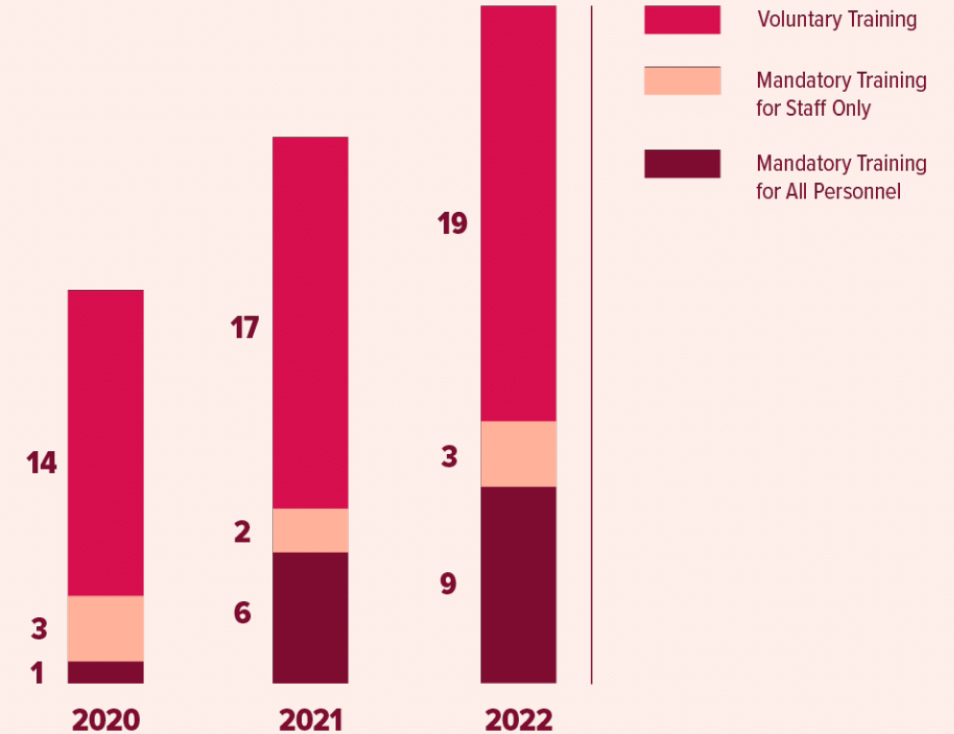
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In 2022, **nine** entities mandated environmental training for all personnel; **three** mandated training for staff; **19** provided voluntary training.

296,000 personnel in **45** entities reported their 2022 data in this area.

Twelve entities did not report in this area but are included in the system-wide reporting as they represent a sizeable portion of the UN system-wide performance.

ENVIRONMENTAL TRAINING FOR PERSONNEL (NUMBER OF ENTITIES)



1 Twelve entities did not report in this area but are included in the system-wide reporting as they are part of the UN system-wide performance.

2 GCF is included in this data.

3 Two entities are reporting independently for the first time this year compared to years previous. This affects the overall percentages.

Thank you.
Any questions?



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For more information

- on the methodologies and data collection used, please visit greeningtheblue.org/methodology.
- on the methodology related to travel emissions provided by the International Civil Aviation Organization please visit the ICAO website <https://www.icao.int/Pages/default.aspx>
- on climate neutrality, please visit the UNFCCC website <https://unfccc.int/climate-neutral-now>

Contact information

greeningtheblue@un.org

Greening the Blue Report 2023

is available at

[greeningtheblue.org/reports/
greening-blue-report-2023](https://greeningtheblue.org/reports/greening-blue-report-2023)

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UNITED NATIONS  NATIONS UNIES

PANEL DISCUSSION

A decorative horizontal bar consisting of several colored segments: green, light blue, dark blue, and a darker blue.

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Agnès LOSTIS

Environmental Project Manager |
Greening the Blue Focal Point,
World Intellectual Property Organization



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Environmental Responsibility at WIPO

Agnès Lostis

Sustainable Engineer, Central Service Division

January 25, 2024 – GEN Event



Climate crisis, biodiversity loss, pollution ?

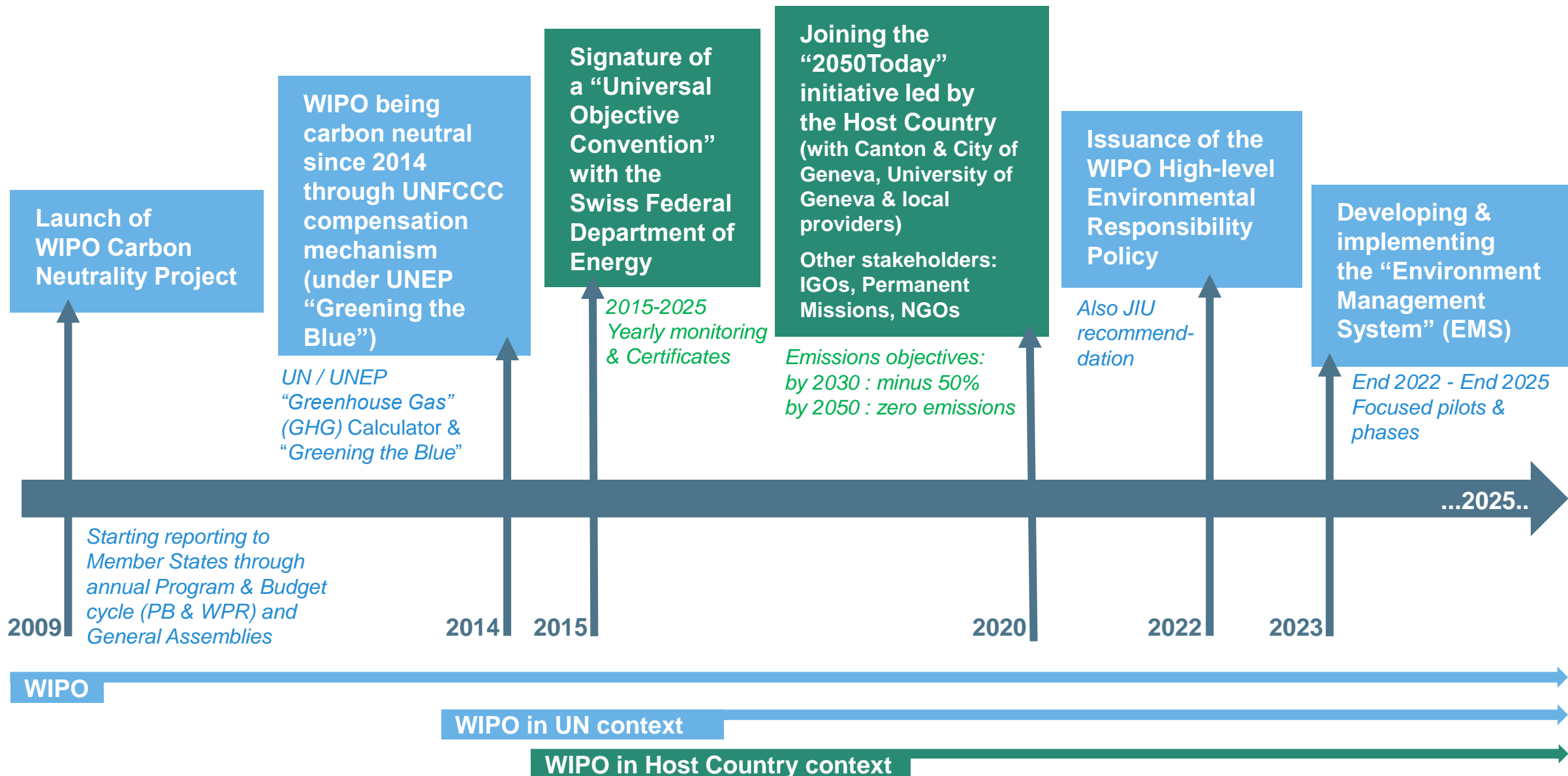
a solidly documented and recognized context
now on the news every day

Our common objective, obligation and challenge ?

reduce or stop negative impact created by our activities
participate in making everyone at all levels take responsibility
from words to action

**Why is such an obvious and responsible objective
more and more difficult to achieve ?**

The environment road travelled at WIPO since 2009



... A few illustrations on WIPO strategic choices...

Biodiversity protection of the century-old park and oak trees

Hybrid ventilation and natural light in all office floors and conference/meeting rooms

Green roofs on two recent buildings

Old lighting technology progressively **replaced by LED technology** for more energy efficiency

...made through long-term plans for constructions, renovations, conversions of spaces, new working methods, proactive technical maintenance, daily operations

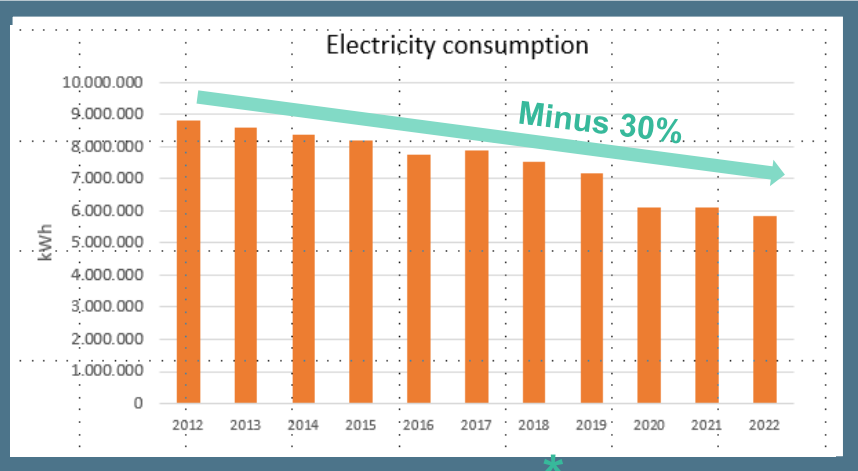
Electricity from **renewable** sources for all buildings

Local **wood** extensively used as structural and interior material in the (~900 seats) Conference Hall

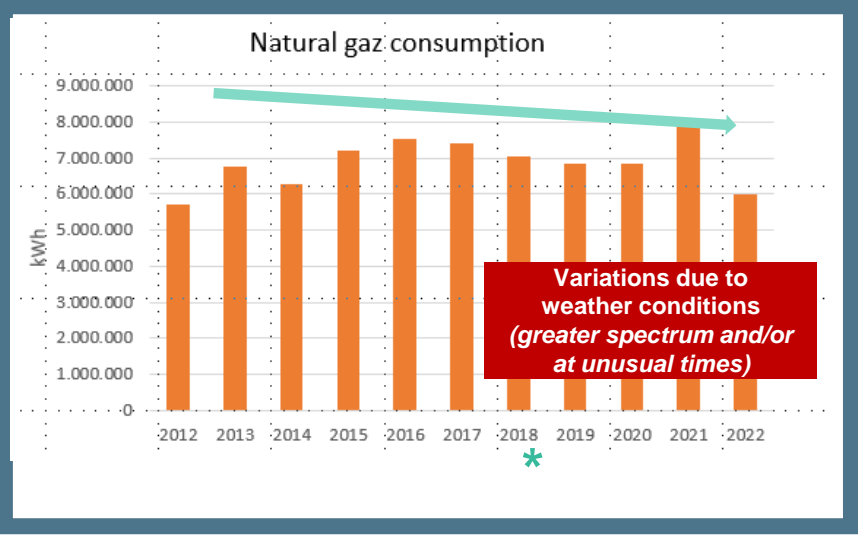
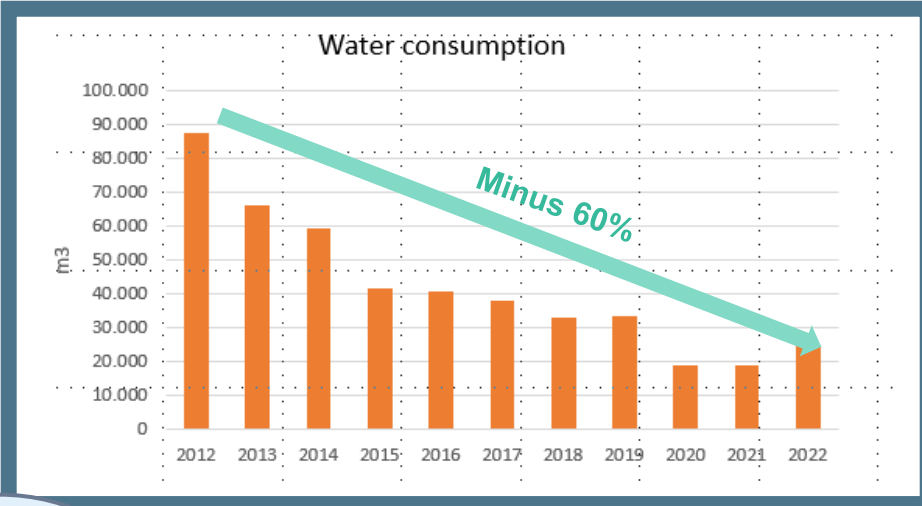
Geneva Lake Water system for **cooling** all buildings

(ongoing plan)
Geneva Lake Water system for **heating** all buildings

...A few illustrations on energy consumption reduction



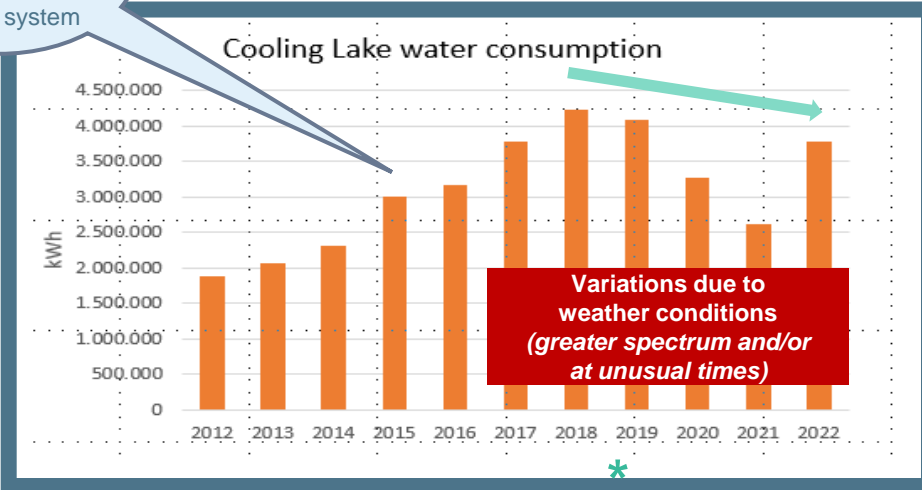
In all cases, 2022 consumption was below pre-Covid levels



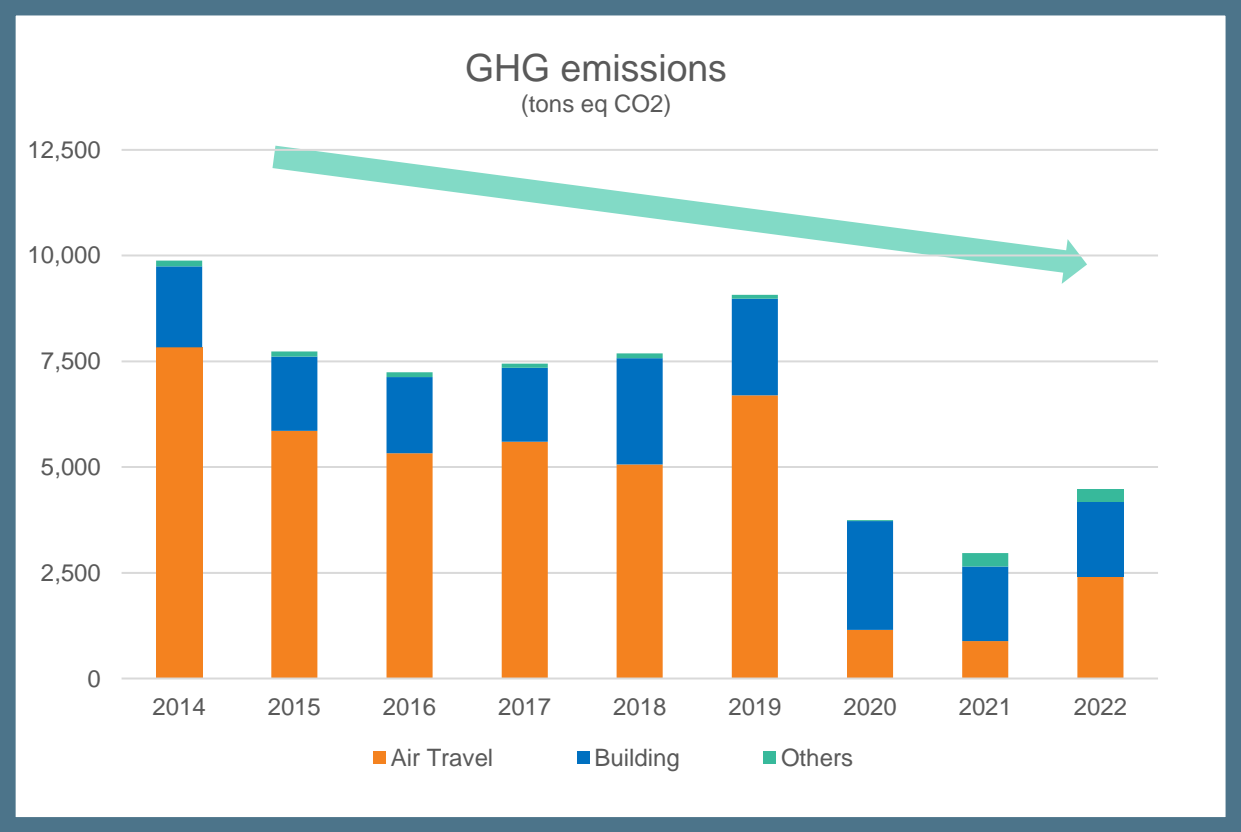
2016 = First full year with all buildings on Campus connected to cooling system

In 2023 Minus 27% heating consumption v. 2022

Due to the "minus 1°C" & fine tuning by HVAC technician team



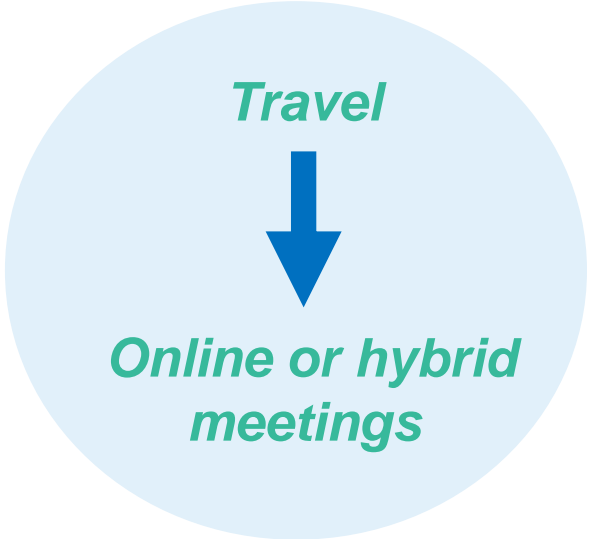
Greenhouse Gas Emissions (2014-2022)



Post Pandemic

Significant decrease of **share of air travel** in total GHG emissions (2022 v. 2019)

| | | |
|--|---|-------|
| Non staff (delegates, other third parties) | ↓ | - 78% |
| Staff | ↓ | - 54% |



(2) Others = Taxi, Train, WIPO official vehicles.

...A few points of conclusion

Vision ... leadership ... commitment ... action...

an eye on the horizon, feet on the ground, tools in hands

The HUMAN potential ... factor ... nature ...

it is at the same time about “all of us” and “each of us”

The power of constraints ... external ... internal ... personal...

find what is ... may be ... could be ... positive in them, now or later

A stable but evolving balance

be more selective, prioritize, ask “What if ...?”, “Why not now ?”

Secure professional competence and experience

foster innovation ... creativity ... open mind ... soft skills

Thank you

Agnès Lostis

agnes.lostis@wipo.int

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Q&A

Closing



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Findings of the UN Greening the Blue Report 2023



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Adam OSTASZEWSKI

IOM
UN MIGRATION

Energy Data Officer,
International Organization for Migration

25 JANUARY 2024 | 15:30 - 17:00 CET | IEH1, ROOM 2 & ONLINE

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An Overview of IOM's Initiatives on Decarbonization and Plastic Waste Management

SUN & Geneva Environment Network

2023 Greening the Blue Report Launch



**GREENING
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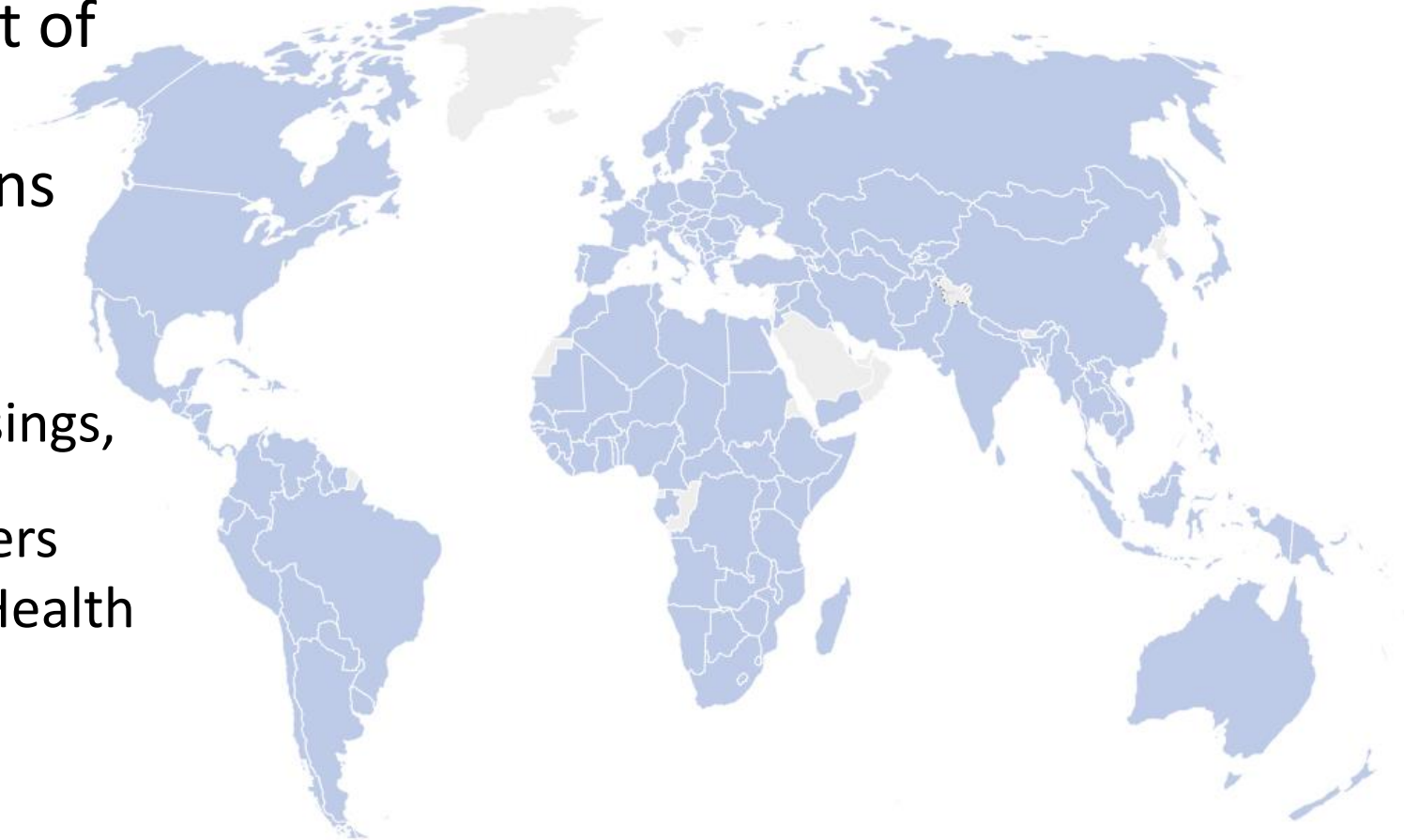
Adam Ostaszewski
Senior Energy Expert
IOM Environmental Sustainability Unit
January 25, 2024

Outline

- Introduction
 - IOM Organizational profile
 - 2022 Environmental Inventory snapshot
- Decarbonization Initiatives
 - Sustainable Energy for Healthcare Facilities in Mindanao, Philippines
 - Innovative Energy & Financing Solutions for Hub in Malakal, South Sudan
 - Decarbonization of Border Management points in Jordan
 - Case Study: Solarizing Humanitarian Hubs in Northern Nigeria
- Plastic waste management
 - Plastics Recycling Center in Rohingya Refugee Camp
 - Redesigning IOM's Document Bags using LCA Approach
 - Reducing Solar E-waste: Creating an Energy Market Circular Ecosystem

IOM Organizational Profile

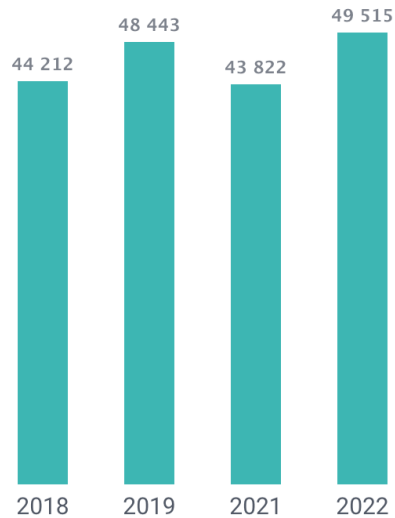
- Mission: to ensure the orderly and humane management of migration
- 174 active country missions
- Over 550 locations
 - Offices & warehouses
 - Border posts, airport crossings, visa application centers, temporary reception centers
 - Health facilities (Migrant Health Assessment Centers)
- 20,000+ IOM staff



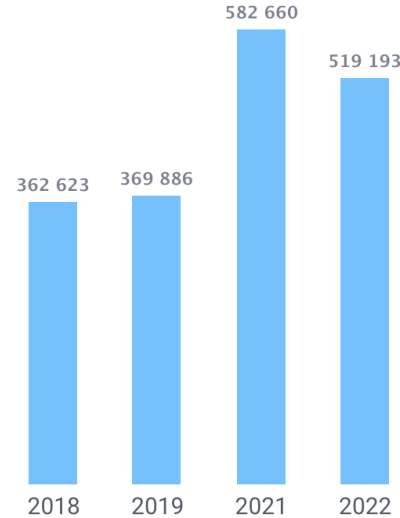
2023 Greening the Blue Report

IOM's Annual Trend Data

GHG emissions
over time (tCO₂eq)



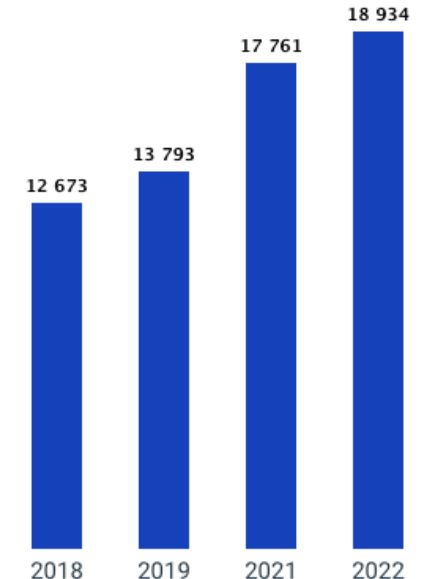
Water consumption
over time (m³)



Waste generation
over time (kg)



Number of Personnel



Decarbonization Initiatives



SUSTAINABLE POWER for HEALTHCARE FACILITIES



https://www.linkedin.com/posts/iom_providing-solar-energy-in-the-southern-philippines-activity-6972838500467425280-J8hQ/

INNOVATIVE SOLUTIONS for HUMANITARIAN HUBS



In Malakal, the humanitarian hub run by IOM shelters 1,000 humanitarian workers from over 35 organizations.



<https://3degreesinc.com/news/largest-peace-rec-p-rec-agreement-to-date-and-the-first-in-south-sudan-helps-fund-solar-electrification-of-teaching-hospital/>

DECARBONIZING BORDER MANAGEMENT FACILITIES



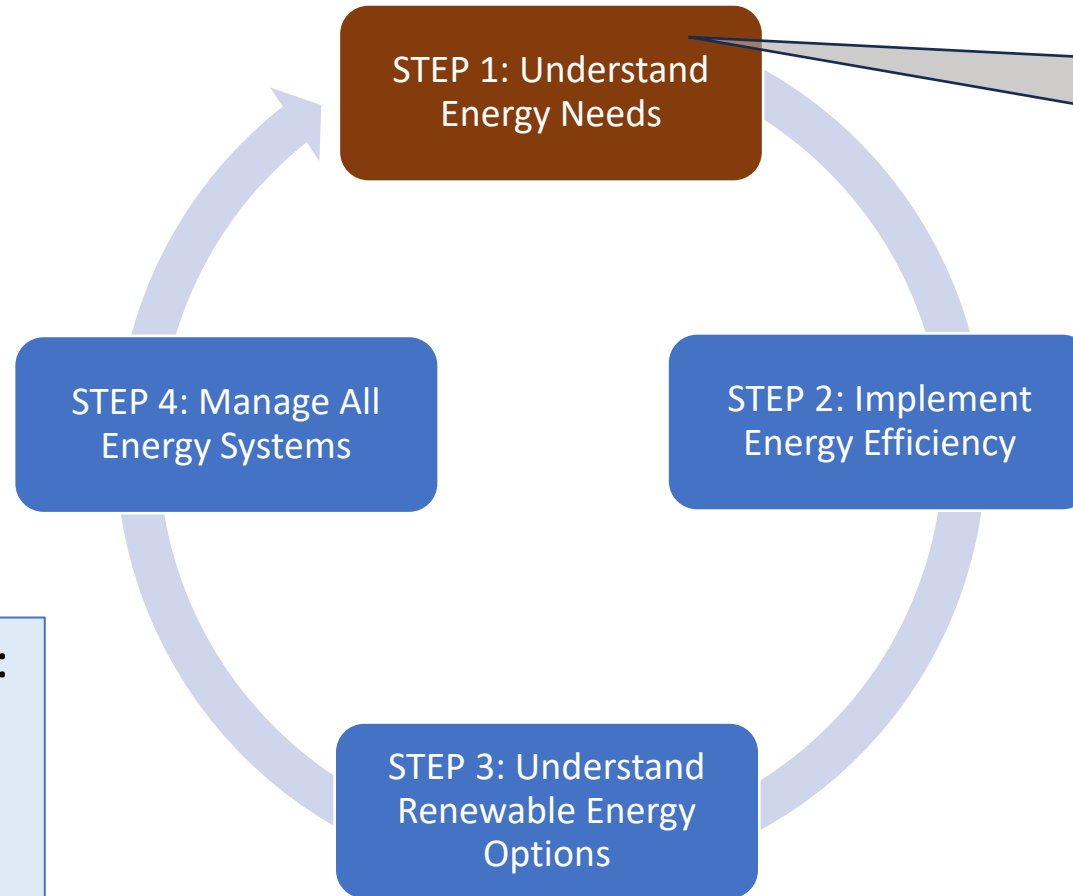
<https://jordan.un.org/en/132372-iom-jaf-mark-completion-facilities-jordanian-border-guards-support-govt-japan>

Case Study: Solarizing IOM's Humanitarian Hubs in Northern Nigeria

- **Problem:** rising fuel costs, budget shortfalls and risks of fuel supply disruptions
- **Objective:** Convert 9 Humanitarian Hubs managed by IOM in Borno State to Solar Power
- **Timeframe:** one year including audit, energy efficiency planning, solar system design, procurement and after-sales arrangements



Step 1: Assess Energy Needs



Conduct an **Energy Audit** to establish energy needs, costs and practices.

Know the needs, costs and priorities of each use category:

- Water and sanitation
- Cooking
- Cooling/AC
- Space heating
- IT & Communication
- Lighting & security
- Laundry
- Transport

Full audit of 9 sites examining:

- Fuel use records and costs
- Energy use practices
- Generator loads
- Appliance census
- Procurement practices
- Existing solar systems

Cooling/AC is over 70% of total load!

Step 2: Implement Energy Efficiency



STEP 4: Manage All Energy Systems

STEP 1: Understand Energy Use

STEP 2: Implement Energy Efficiency

STEP 3: Understand Renewable Energy Options

Put in place an Energy Management and Energy Efficiency Program.

- Educate staff about energy use practices
- Remove or reduce inefficient loads
- Monitor energy use
- Be cost conscious
- Purchase energy efficient appliances
- Control use of major loads

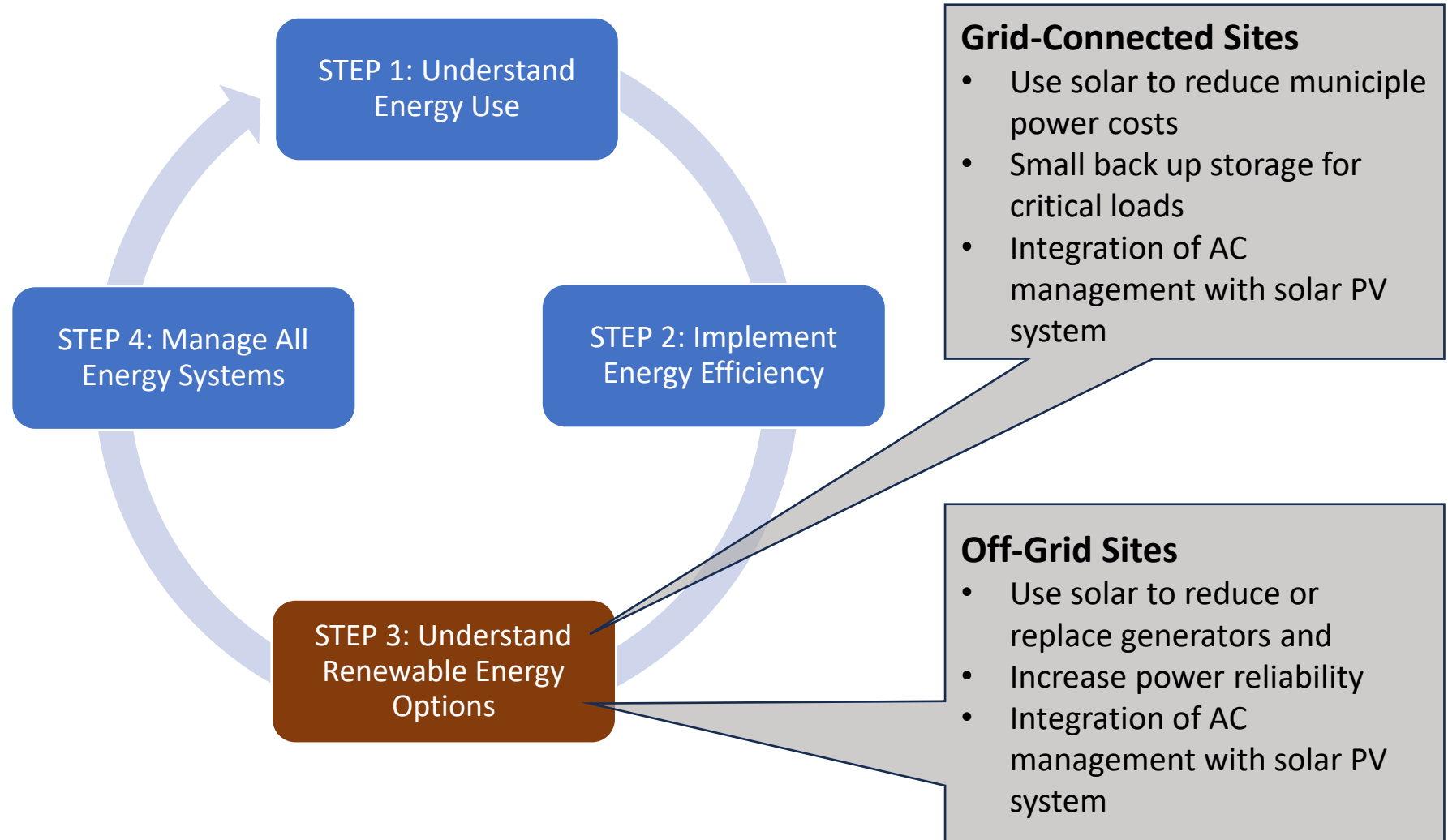
Energy Efficiency Program

- Staff education on energy management
- Shift to more efficient appliances
- Make energy efficiency part of procurement process
- Regular energy use reports and assessment
- Management of critical loads

Step 3: Understand Renewable Energy Options



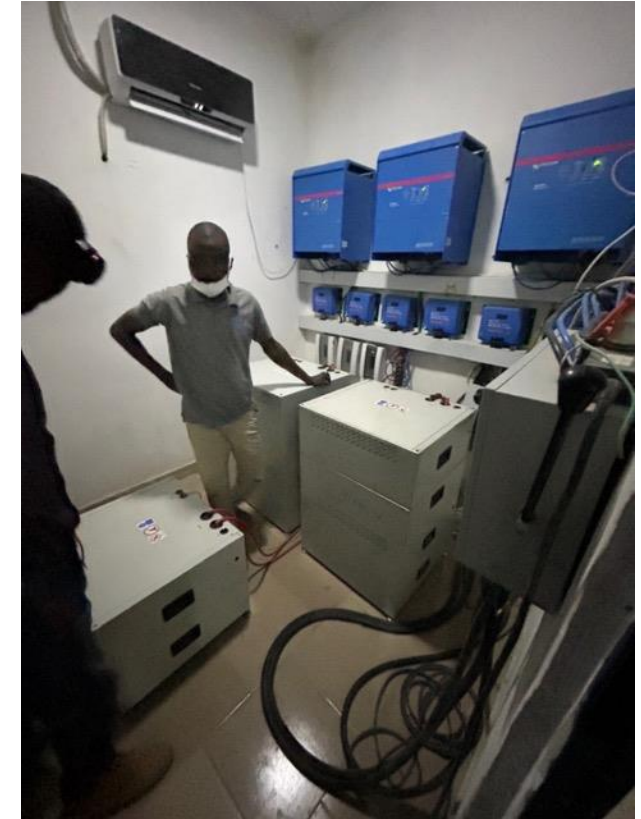
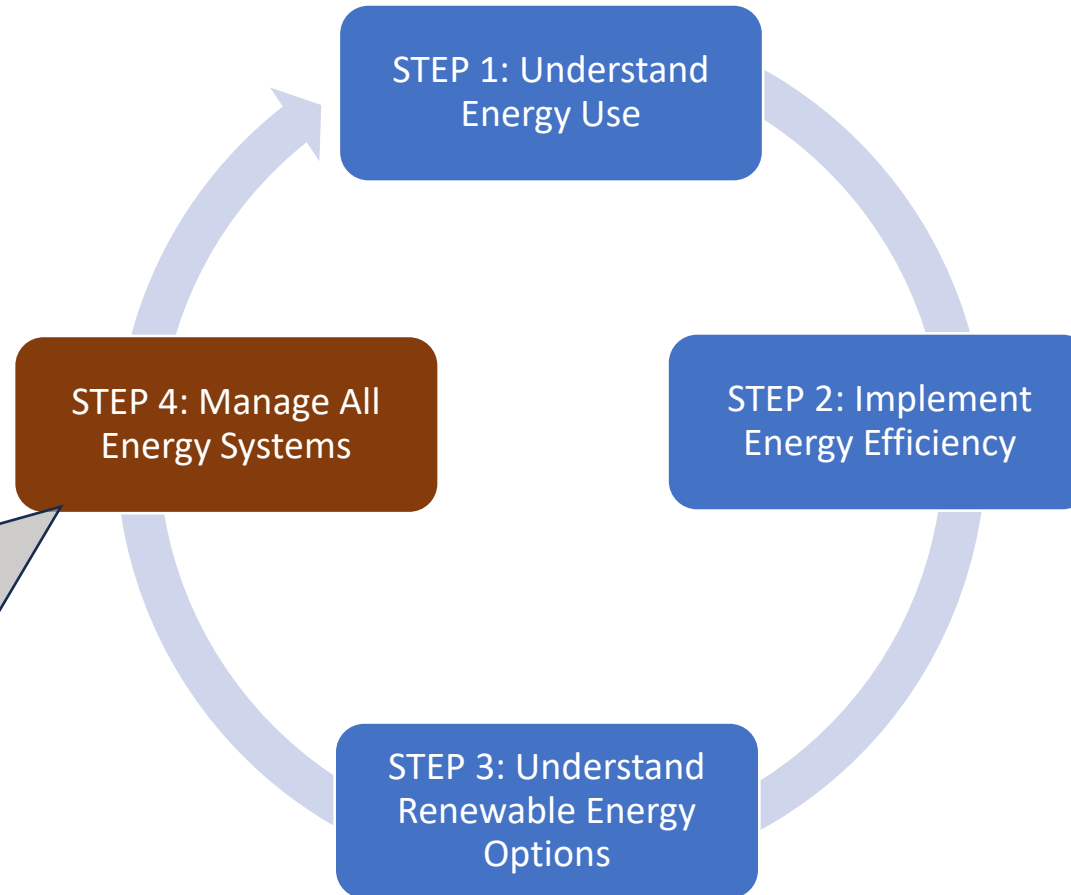
Key renewable energy design challenge is to match solar power systems with air conditioning loads



Step 4: Manage & Maintain Energy Systems

Responsible management of any power system is key.

- Staff must understand how to operate and conduct minor maintenance tasks
- Private sector service contracts perform all major O&M and management tasks
- Capacity building for staff in
 - Energy management
 - Solar system operation



A Company is Contracted to Ensure Solar System is Fully Operational at All Times



Plastic Waste Management

PLASTICS RECYCLING CENTER, Rohingya Refugee Camp

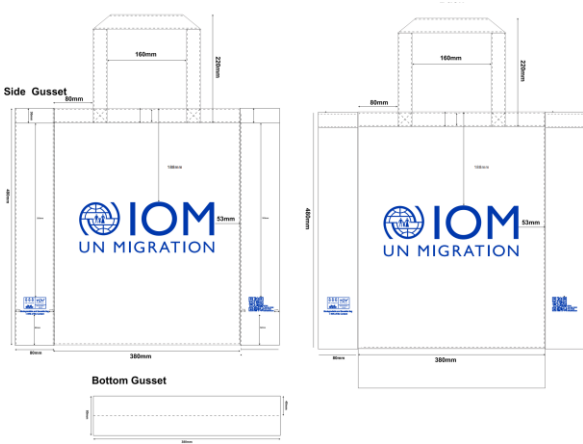


Innovative Plastic Recycling Helps Improve Rohingyas' Health and Environment in Cox's Bazar



<https://weblog.iom.int/innovative-plastic-recycling-helps-improve-rohingyas-health-and-environment-coxs-bazar>

REDESIGNING IOM's DOCUMENT BAGS using an LCA Approach



<https://www.greeningtheblue.org/reports/greening-blue-report-2023>



**REDUCING SOLAR E-WASTE:
CREATING an ENERGY MARKET CIRCULAR ECOSYSTEM**



REPAIRED

3370

solar lanterns



RETRIEVED

2087

Battery cells to construct
battery packs for a second life



COLLECTED

4386

Batteries to be recovered
or properly disposed

STORED

1299

End of life batteries
for safe disposal



<https://hip.innovationnorway.com/article/om-and-partners-are-paving-the-way-for-a-circular-approach-to-e-waste-management-in-humanitarian-settings>

Thank You!

Adam Ostaszewski

IOM Senior Energy Expert

aostaszewski@iom.int

The UN System's Environmental Footprint

Findings of the UN Greening the Blue Report 2023

25 JAN 2024 | 15:30 - 17:00 CET
IEH1, ROOM 2 & ONLINE

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AGENDA

Moderated by Jacob S. HALCOMB | Programme Officer, Sustainable United Nations

Opening

- Rie TSUTSUMI | Coordinator, Sustainable United Nations, UN Environment Programme

Presentation of Findings of the Greening the Blue Report 2023

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Dominic GRACE

Deputy Director, Finance and Admin Department,
Head of Global Mobility and Infrastructure
Services, UN High Commissioner for Refugees



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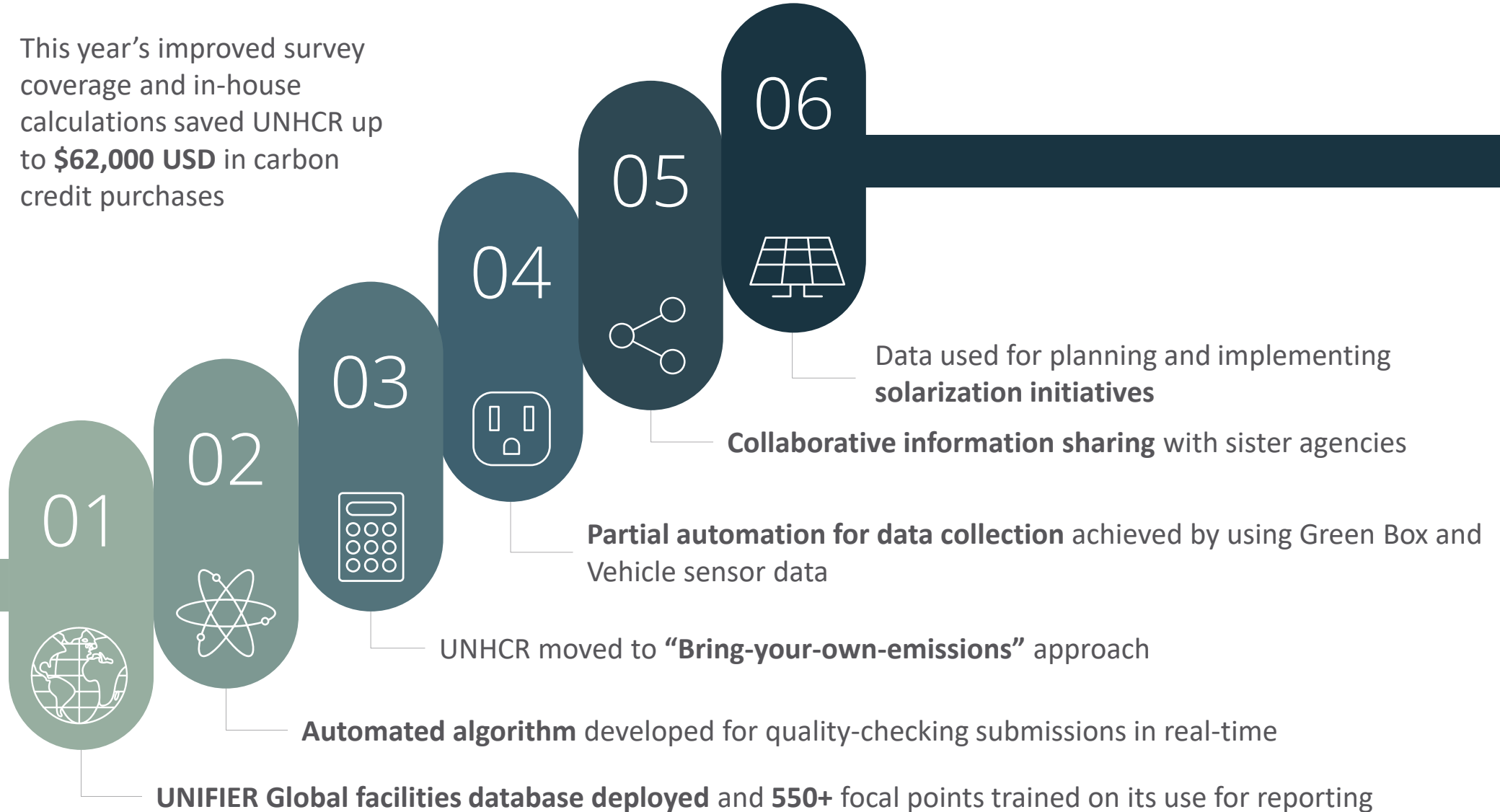
Using Greening the Blue Data in UNHCR



Division of Financial
and Administrative
Management



This year's improved survey coverage and in-house calculations saved UNHCR up to **\$62,000 USD** in carbon credit purchases



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A photograph of the United Nations Secretariat Building in New York City. The building is a large, classical-style structure with a prominent entrance. In front of the building, there are two long, parallel rows of flagpoles, each topped with a golden globe. The flagpoles are filled with the national flags of various countries, including the United States, the United Kingdom, and many others. The sky is clear and blue. The text "UNITED NATIONS" and "NATIONS UNIES" is visible on the building's facade, flanking the United Nations emblem.

UNITED NATIONS  NATIONS UNIES

Q&A

A horizontal decorative bar with a gradient from light green to blue, positioned below the "Q&A" text.

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UNITED NATIONS  NATIONS UNIES

CLOSING

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THANK YOU!



Rie TSUTSUMI



Coordinator, Sustainable United Nations, UN Environment Programme



Bethany PADFIELD



Communications Consultant, Sustainable United Nations



Agnès LOSTIS



Environmental Project Manager | Greening the Blue Focal Point, World Intellectual Property Organization



Adam OSTASZEWSKI



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Dominic GRACE



Deputy Director, Finance and Admin Department, Head of Global Mobility and Infrastructure Services, United Nations High Commissioner for Refugees



Jacob S. HALCOMB



Programme Officer, Sustainable United Nations | Moderator



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WHAT'S NEXT?

 genevaenvironmentnetwork.org



VIRTUAL


Launch and Panel Discussion | Global Criteria to Address Problematic, Unnecessary and Avoidable Plastic Products

01 FEB 2024 14:00 – 15:30

Online | Webex

Nordic Council of Ministers, GEN

 Chemicals and Pollution | Plastics | Science

 SDG12




INFO SESSION

Human Rights and the Environment: Meeting on Activities Related to 55th Session of the Human Rights Council

08 FEB 2024 10:00 – 11:00

International Environment House I, Room 2
& Online | Webex

GEN

 Human Rights and Environment



VIRTUAL


Implementing a Treaty to End Plastic Pollution: A Holistic Approach to Resource Mobilization & Financing for Systems Change & Just Transitions

07 FEB 2024 15:30 – 17:00

Online | Webex

TESS, GEN

 Chemicals and Pollution | Plastics | Green Economy

 SDG12