OVERVIEW

2019 ESCAP EMISSION SOURCES

- 50% Air travel sponsored by ESCAP
- 48% Facilities
- 2% Other travel

6,316* tCO₂e

*Including air travel emissions of non-ESCAP UN Secretariat entities covered under R400.

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)
IMPLEMENTED SINCE 2018

To continually reduce our environmental impacts

ENERGY

WATER

WASTE

TRAVEL

MEETINGS

STAFF AWARENESS

50% 48% 2%
In 2019, ESCAP managed to report its construction waste, previously excluded as managed by external contractors.

More is not always bad! Increased waste data accuracy has led to more waste being reported!

Our single-use ban campaign and improved management have led to a 31% decrease in mixed waste compared to 2017 (from 99 to 68 tons).

In 2019, our efforts were focused on finding new recycling options for our waste to prepare the boost in waste recycling from 2020 onwards!
2018 vs 2019

15% paper savings

2,400,233 prints (2018)
2,033,595 prints (2019)

EMS PROGRESS AGAINST TARGETS

-90% SINGLE-USE CUPS
Achieved 100%

30% REDUCTION IN PRINTING
15% of 30%

50% RECYCLING BY 2022
31% of 50%

SINGLE-USE PLASTIC-FREE CATERING AND CONFERENCING SERVICES
Achieved 100%

ESCAP HQ data
2019 vs 2016
18% water savings
Thanks to improved energy efficiency! We use water cooling towers to cool down our buildings, by reducing our energy consumption, we cut down on fresh water too!

2019
8% water recycling
Recycled water is reused to water our garden!

WATER USE AND RECYCLING TREND

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Use (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>74,450</td>
</tr>
<tr>
<td>2017</td>
<td>71,942</td>
</tr>
<tr>
<td>2018</td>
<td>63,246</td>
</tr>
<tr>
<td>2019</td>
<td>61,065 (-18%)</td>
</tr>
</tbody>
</table>

WATER USE BY SOURCE

- 58% other building use
- 42% cooling towers (A/C)
- 8% recycled water
2017 - 2019

27,000 m$^3$

saved in 3 years =

13.5

Olympic sized swimming pools

EMS PROGRESS AGAINST TARGETS

30% WATER USE REDUCTION BY 2022

18% of 30%

30% WATER RECYCLING BY 2022

8% of 30%
ENVELOPE

2019 vs 2016
14% energy savings equivalent to the electricity required to power 2,672 average Thai households

2017 - 2019
USD 276,000 saved in 3 years
2,942 megawatt-hours (mWh) saved in 3 years

2017 - 2019
2040 tCO₂e prevented in 3 years
2040 trees would have been required to absorb that amount of CO₂e over a 40-year lifespan

2019 ENERGY SOURCES
To power our UN Bangkok Compound

Grid 98.9%
Solar 0.85%
Diesel generator 0.26%

8,729 mWh

ENERGY USE & SAVINGS

<table>
<thead>
<tr>
<th>Year</th>
<th>Grid (mWh)</th>
<th>Solar (mWh)</th>
<th>Diesel generator (mWh)</th>
<th>Cumulative savings (mWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>10,185</td>
<td>98.9%</td>
<td>9,738</td>
<td>9,155</td>
</tr>
<tr>
<td>2017</td>
<td>9,738</td>
<td>0.85%</td>
<td>9,155</td>
<td>8,729</td>
</tr>
<tr>
<td>2018</td>
<td>9,155</td>
<td>0.26%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>8,729</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

-14%
EMS PROGRESS AGAINST TARGETS

-20% GRID ENERGY BY 2024

ENERGY EFFICIENCY MEASURES

Shortening of A/C & lighting operation hours
Gradual switch to LED lights
Earth hour campaign daily

- 15% of 20% of 2024

- Office lights off during lunch time
- 90 tons of CO₂ prevented

UN Bangkok Compound-wide data
**GREEN MEETING FEATURES**

- Carbon accounting
- Offsetting
- Paper smart
- Waste prevention
- Participants awareness
- Teleconferencing
- Low-carbon menus

**ESCAP SUSTAINABLE MEETINGS**

- **1) 6th Asia-Pacific Forum on Sustainable Development** (513 tCO₂e offset)
- **2) Asia-Pacific Climate Week** (1175 tCO₂e offset)
- **3) International Forum on Energy for Sustainable Development and Energy Committee Meeting** (74 tCO₂e offset)
- **4) Asia-Pacific Ministerial Conference on the Beijing+25 Review** – With a low carbon fully vegetarian cocktail menu!!!(338 tCO₂e offset)

By default, ESCAP offsets the air travel emissions of all sponsored flights for personnel and participants. For sustainable meetings, all emissions - beyond sponsored air travel - are also accounted for.
Air travel went down by 2% compared to the EMS baseline (2016). It includes the air travel of ESCAP personnel and sponsored participants.

The closure of financial years where most of the activities are concluded is often reflected in an increase in air travel. This may explain the non-linear reduction trend.

ESCAP business flights went down from 16% in 2016 to 6% in 2019. Business class travel accounts for about twice as much emissions as economy class, due to the wider seat area and greater luggage allowance. Travelling economy helps reduce the organization’s footprint.
VIDEO:
CYCLING TO WORK

bit.ly/36FpT1N
In 2019, the UN Secretariat purchased credits from worldwide certified carbon emission reduction projects based on the emissions officially reported by UNS agencies to Greening the Blue.

Emissions are calculated following the GHG protocol methodology.

Overall ESCAP emissions include emissions associated with other UNS entities included in ESCAP air travel reporting (R400).

Fluctuations in emissions may happen depending on the scope, type, and number of activities implemented each year and the increasing comprehensiveness of GHG reporting, despite the emission reduction efforts.
In 2019, the UN advanced its policy framework for greener facilities and operations!

- **Apr 2019**: Strategy for Sustainability Management in the UN System 2020-2030
- **Sept 2019**: Environmental policy for the United Nations Secretariat
- **Sept 2019**: United Nations Secretariat Climate Action Plan
- **Dec 2019**: ESCAP commitment to UNS environmental policy
GREEN PROCUREMENT

CONSTRUCTION WORK
Environmental management requirements were included in ESCAP large construction tenders to ensure environmental impacts minimization including waste, water, and energy management.

CATERING
Green specifications included in ESCAP catering procurement requirements to ensure the continuation of single-use ban system, sustainable events, and sustainable menus.
EMS PARTNERS

UN ENTITIES AT THE COMPOUND

16 UN entities
- ESCAP
- ILO
- OICT
- UNAIDS
- UNCCD
- UNDP
- UNDRR
- UNEP
- UNFPA
- UNHCR
- UNOHCHR
- UNODC
- UNOPS
- UNRCo
- UNV
- UN WOMEN

BANGKOK SUSTAINABILITY TASK FORCE

28 UN entities
- ICAO
- IOM
- ITU
- FAO
- UNESCO
- UNICEF
- UNIDO
- UNOPS
- WFP
- WHO
- WB
- UNHCR

+16 UN ENTITIES AT THE COMPOUND

UN-WIDE GREENING PARTNERS

Sustainable UN (UNEP)

Swedish Environmental Protection Agency (EPA)