

Energy & Carbon Management Plan (ECMP) 2020

Summary



Achieving net zero carbon
emissions at LSHTM by 2030

LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



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Glossary

Carbon emissions: emissions of the six greenhouse gases covered by the Kyoto Protocol

Scope 1 carbon emissions: direct greenhouse gas emissions from energy sources owned or controlled by the London School of Hygiene & Tropical Medicine

Scope 2 carbon emissions: indirect greenhouse gas emissions from consumption of purchased electricity, heat, or steam

Scope 3 carbon emissions: other indirect emissions related to waste, water, travel, and procurement

tCO₂e: tonnes of carbon dioxide equivalent (used to compare emissions from various greenhouse gases based upon their global warming potential)

Introduction From The Director

Our School has a critical global mission—improving health worldwide. As we stay true to our mission, we must also recognise that the carbon emissions we produce from our work need to be dramatically reduced.

I am proud of the bold action that our School is already taking to address the climate emergency, through our cutting-edge research, our engaged staff and student community, and now with this new Energy and Carbon Management Plan.

This ambitious new plan examines all of our areas of work, providing a clear pathway to ensure that we achieve the necessary reductions. This plan represents change – changes to some of our usual ways of working, our processes and operations, as well as important upgrades to our

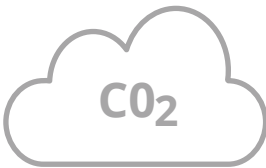
infrastructure. Through all this, we will of course be ensuring continuity in our research and teaching but it cannot be business as usual.

There is a clear synergy between improving health and addressing the climate crisis. LSHTM must be at the forefront of these efforts. With this new plan, we will work closely with our students and all colleagues, whose continued support and input will be essential to bring about the change we need.

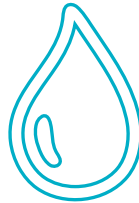


Professor Baron Peter Piot
Director, LSHTM

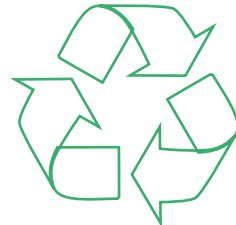
Sustainability success to date



42% reductions in carbon emissions
from 2012/13 to 2018/19



Water consumption reduced by >6,500m³
in 2018/19



Increased recycling rate to 68% in 2018/19 from 61% in 2017/18

Vision and ambition

Our plan has a commitment to achieve net zero emissions by 2030 against a 2018/19 baseline through cumulative carbon reduction efforts across Scopes 1, 2, and 3 emissions – delivering at least a 50% reduction, with carbon offsetting used only for unavoidable emissions.

Context

LSHTM is a global institution and we work in countries around the world. We have an urgent responsibility to reduce the environmental impact of our activities, based on:

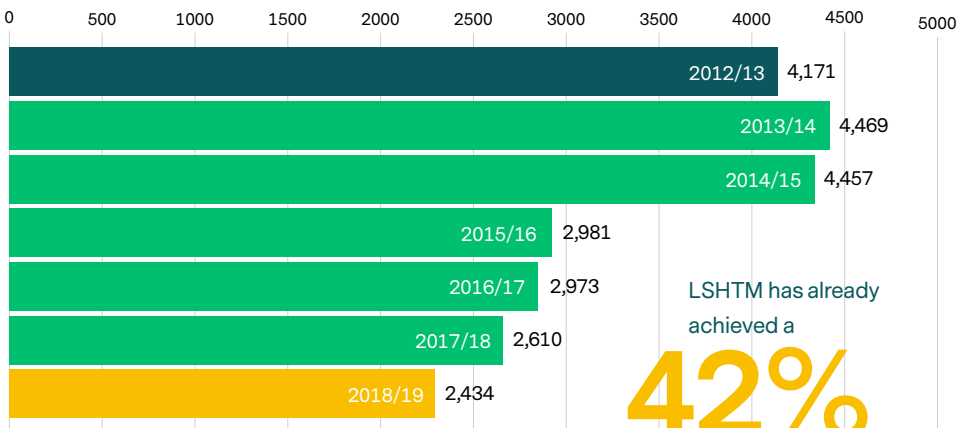
LSHTM's values which aim for a climate resilient, more sustainable and healthier planet.

The UK government declaring a national climate emergency in 2019. More than 1,100 jurisdictions across 24 countries also declared an emergency, with cities and companies worldwide working towards net zero carbon emissions.

Reducing carbon emissions as a **resource efficient and cost-effective** practice.

Increasing climate activism and societal **demand for everyone to do more** to reach global emission targets.

Carbon tonnage from Scope 1 and 2 emissions: 2013 to 2019



LSHTM has already achieved a
42%
reduction
 in Scope 1 and 2 emissions
 against 2012/13 baseline

Our findings

While all carbon emission sources must be reduced, our new analysis suggests that over 70% of LSHTM carbon emissions fall under Scope 3 – chiefly business travel and procurement. These must therefore be a major focus of action. Our analysis suggests that we will need to eliminate in excess of 12,000 tonnes of carbon emissions annually in order to become net zero.

Scope 3 emissions
account for over

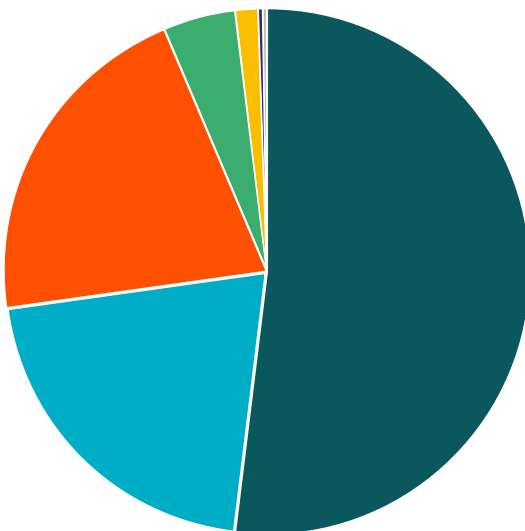
70%

of LSHTM's carbon
emissions

**12,042
tonnes**

of carbon emissions
to be eliminated

Scope 3 emissions are the most difficult to evaluate and reduce. However in our ECMP, **Scope 3 emissions are being addressed as part of overall emissions for the first time.**



Breakdown of carbon tonnage (tCO₂e)

- Business travel - 6,252
- Business travel (est.) - 2,501
- Supply chain (est.) - 2,500
- District heat - 558
- Natural gas - 162
- Waste - 33
- Water - 6
- Electricity (market-based) - 0

Estimates (est.) account for emissions that are known to exist, but were not measured.

How-to

As part of a robust and validated response, LSHTM is using international standards and protocols to formulate its carbon reduction actions and respond to the climate crisis.

SUSTAINABLE DEVELOPMENT GOALS



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

SCIENCE BASED TARGETS

Science Based Targets Initiative

Science Based Targets are a set of tools to help determine the scale of actions needed to ensure organizations stays below the 1.5°C threshold.



ISO 14001 Environmental Management System

LSHTM is certified to ISO 14001 environmental standards, and this will be used as part of the monitoring regime for the ECMP actions.

Net Zero Emissions by 2030

... with a Milestone Review in 2025 to see if we are on track, or need to speed up progress.

Areas of focus and actions

The full plan is available at lshtm.ac.uk/aboutus/introducing/environmental-sustainability



Electricity

Increase renewables and reduce demand



Heating

Introduce low carbon heating and space heating policy



Catering

Source low carbon and low impact products



Waste

Reduce waste and increase recycling



Water

Use less and upgrade infrastructure



Procurement

Sustainable supply chain and supplier engagement



Construction and refurb

Low impact products and materials, and green building standards and technology



Business travel

Travel less and use remote conferencing

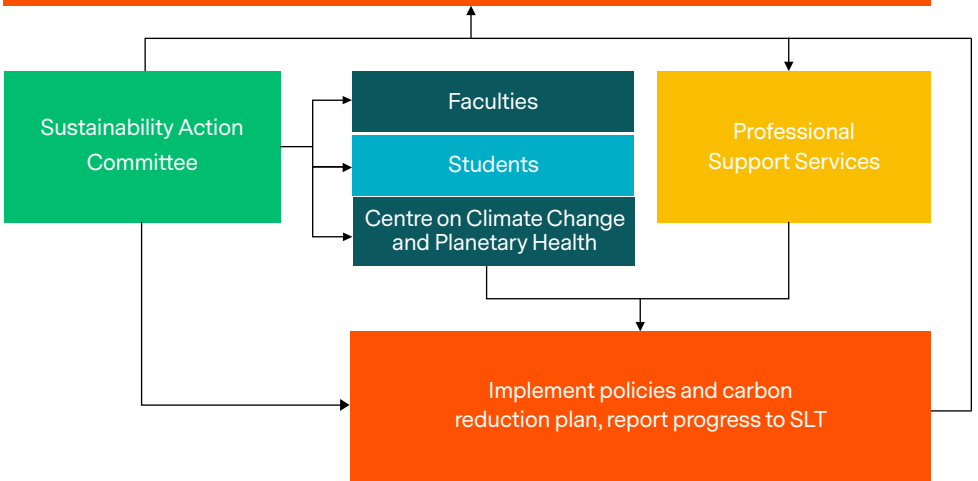


ICT

Low impact and sustainable supply chain

Implementing and managing the improvements

The Senior Leadership Team (SLT) has overall responsibility for the ECMP, but day to day management and operation falls to the LSHTM Sustainability Action Committee.



Ways you can help...

Stay informed, get involved!



Be energy aware



Waste less, reuse, and recycle more



Travel less or explore low carbon travel



Become a Sustainability Rep





...ask questions, be inquisitive!

We will provide regular updates on our actions, progress to date, and how you can get involved.



Get in touch

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