

Terms of Reference

1. The purpose of this working group is to identify ways in which Imperial might enhance its energy use monitoring to facilitate greater efficiency across the university as one contribution to significant reductions to our environmental footprint.
2. The emphasis will be in providing energy data that is more finely grained spatially and temporally such that occupants of laboratories and other facilities are better informed about how much energy they consume and which of their activities are the largest consumers.
3. Best practice in energy monitoring, such as identified by CIBSE and EAUC will be adopted.
4. There will be three areas of activity: (a) Having trialled monitoring of electrical energy monitoring in 2023 and established a load pool of suitable meters, the emphasis will change to now exploring the learnings from use of the loan pool. (b) With the Estates team committed to enhancing the fixed submetering in City and Guilds building, the working group will assist with interpretation of the data as needed. (c) A new activity will be established to explore how building occupants and building managers can better monitor heating ventilation levels in rooms with a view to more accurately aligning with occupant needs and reducing wasted energy,
5. Surveys of activities in rooms being monitored may be undertaken to enhance the understanding of drivers of energy consumption.
6. Reports will be compiled that identify typical energy use of standard items of equipment as a guide to be used in areas not yet covered by fine-grained monitoring.
7. In the course of improving energy monitoring, the work group may identify immediate candidates for action to reduce energy use.
8. Alongside monitoring energy, monitoring of ventilation, water use and other similar data may be undertaken where the synergies are meaningful.
9. The working group will work alongside and in support of work undertaken by Estates division and provide advice to both Estates and Academic Departments on actions they may wish to take.
10. The working group will have close working relationship with the working group on Data and Reporting.
11. The working group will have close working relationships with the Lab Sustainability Programme.
12. The group may co-opt additional members as needed.

Membership

- Prof Tim Green (Academic Leader for Sustainability) – Chair
- Will Gee (Sustainability Hub Programme Manager)
- Dr Salvador Acha (Chem Eng)
- Max Bird (Chem Eng)
- Zia Rahman (EEE)
- Perminder Amrit (Chem Eng)
- Hari Haren (Estates)
- Colin Nye (Estates)
- Allison Hunter (Laboratory resource efficiency champion)
- Neil Hanham (ICT, Head of Digital Workplace)
- Harriet Wallace (Sustainability Strategy Director)

The working group may co-opt further members where additional expertise is required and may co-opt 1 or 2 students to assist with analysis and snap-shot monitoring.