A living lab
Living Lab

@ UNIVERSITY of GREENWICH
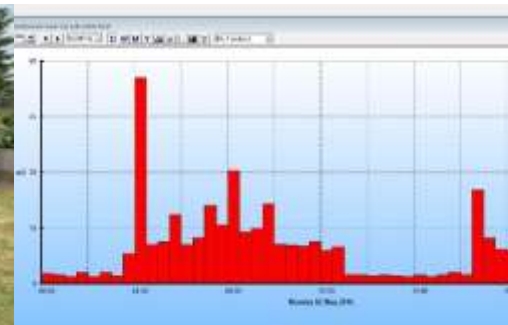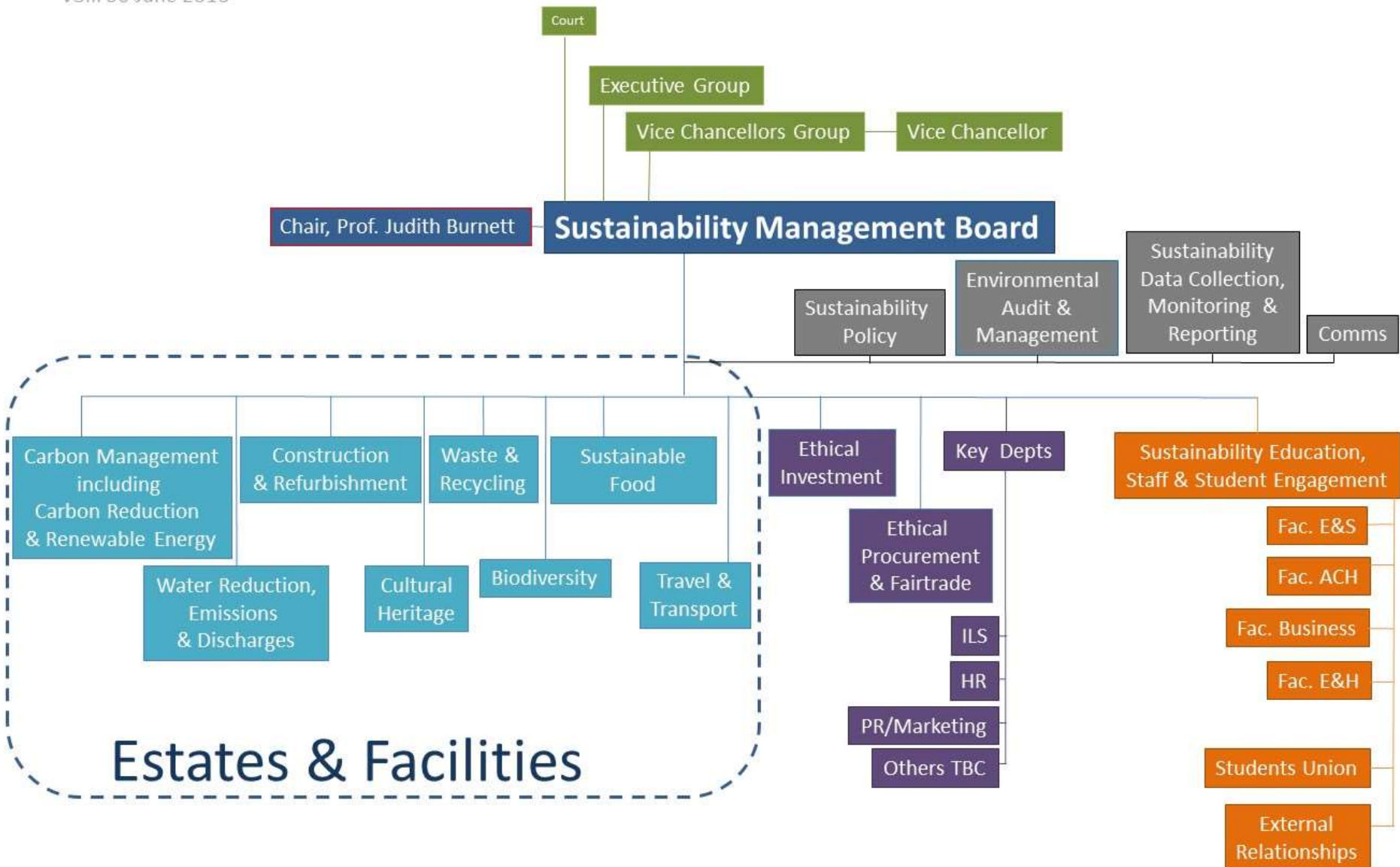
University as a 'Living Lab':

Living Labs are applied research opportunities which can improve the estate and solve practical problems. Research can be applied in other areas of the institution's operations and activities.

Leading Living Lab practitioners include the following universities MIT, Cambridge and Manchester .

Organisational and Reporting Structure
of the Sustainability Management Board

V3iii 06 June 2016

UNIVERSITY of GREENWICH

Court

Executive Group

Vice Chancellors Group — Vice Chancellor

Chair, Prof. Judith Burnett

Sustainability Management Board

Sustainability Policy

Environmental Audit & Management

Sustainability Data Collection, Monitoring & Reporting

Comms

Estates & Facilities

Carbon Management including Carbon Reduction & Renewable Energy

Construction & Refurbishment

Waste & Recycling

Sustainable Food

Water Reduction, Emissions & Discharges

Cultural Heritage

Biodiversity

Travel & Transport

Ethical Investment

Ethical Procurement & Fairtrade

Key Depts

ILS

HR

PR/Marketing

Others TBC

Sustainability Education, Staff & Student Engagement

Fac. E&S

Fac. ACH

Fac. Business

Fac. E&H

Students Union

External Relationships

'Living Lab' Faculty Opportunities

	FACH	FBus.	FES	FEH
Estates:				
Energy & water data	✓✓✓	✓✓	✓✓✓	✓
Energy & water saving ideas	✓✓✓	✓✓	✓✓✓	✓
Renewables	✓✓✓	✓✓	✓✓✓	✓✓
Building design	✓✓✓	✓	✓✓	✓✓
Construction & Refurbishment	✓✓✓	✓✓	✓✓✓	✓
Building use	✓✓✓	✓	✓✓✓	✓✓
Waste & recycling	✓✓	✓✓	✓	✓✓✓
Emissions & Discharges	✓✓	✓	✓✓✓	✓
Transport & Travel	✓	✓✓✓	✓	✓
Behaviour change	✓✓✓	✓✓	✓	✓✓✓
Wellbeing	✓✓✓	✓✓	✓✓✓	✓✓✓

'Living Lab' Faculty Opportunities

	FACH	FBus.	FES	FEH
Estates:				
Landscape	✓✓✓	✓	✓✓✓	✓✓✓
Biodiversity	✓✓✓	✓	✓✓✓	✓✓✓
Food	✓✓✓	✓✓✓	✓✓✓	✓✓
User experiences and needs	✓✓✓	✓✓	✓	✓✓
Environmental Management Systems	✓✓✓	✓✓	✓✓	✓
Faculties				
Education for Sustainable Development	✓✓✓	✓✓✓	✓✓✓	✓✓
Research for Sustainable Development	✓✓✓	✓✓✓	✓✓✓	✓✓
Business case for Sustainable Development	✓✓✓	✓✓✓	✓✓✓	✓✓

'Living Lab' Faculty Opportunities

	FACH	FBus.	FES	FEH
Directorates				
Finance: Ethical Investment		✓✓		
Finance: Sustainable Procurement	✓✓	✓✓✓	✓✓	✓
Other Directorates:				
HR	✓	✓✓✓	✓	✓
ILS	✓✓✓	✓✓✓	✓✓	✓
Marketing & Recruitment	✓✓✓	✓✓✓	✓	✓
Other areas:				
Strategy/Policy	✓✓✓	✓✓✓	✓	
Reporting & Communications	✓✓✓	✓✓✓	✓	✓
Community engagement	✓✓	✓✓	✓✓	✓✓✓
Awards	✓✓✓	✓✓✓	✓✓✓	✓✓✓

Defining Sustainability:
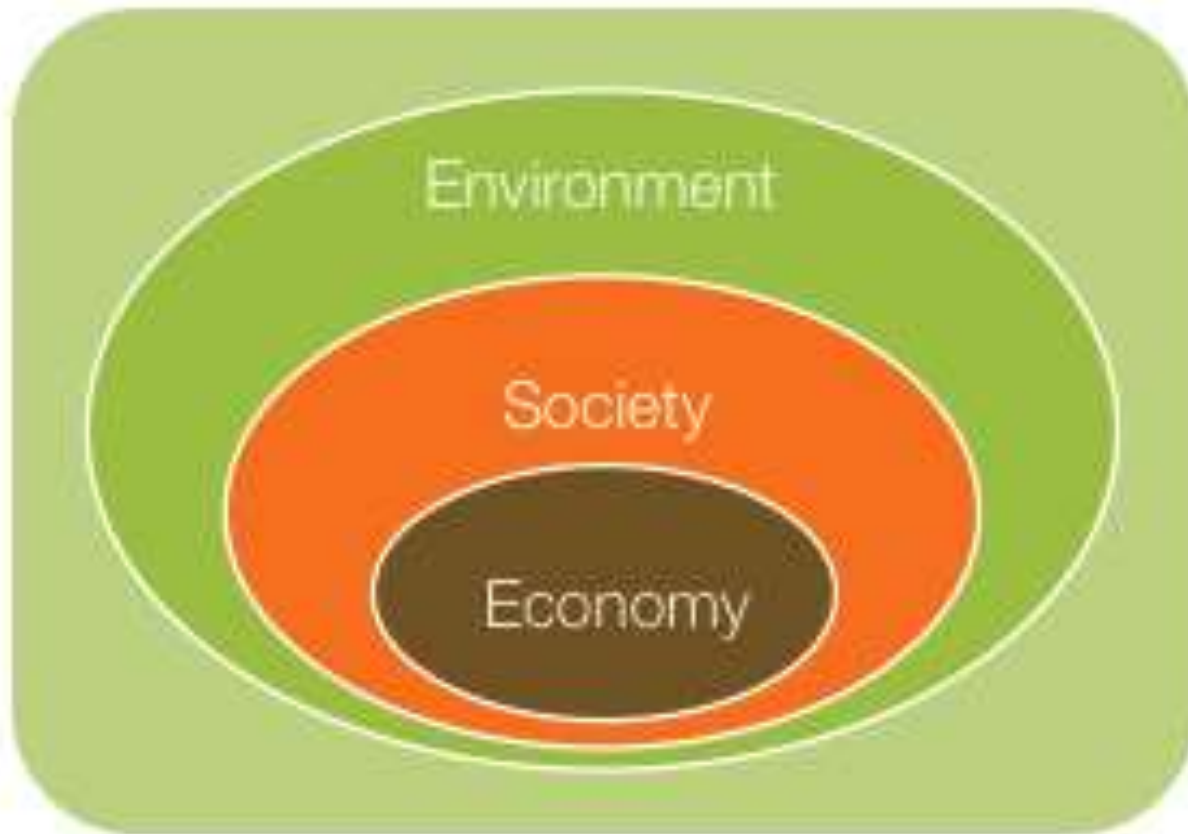
Sustainability 'lens'

- Meeting the goal of a sustainable (restorative) society
- Understanding the consequences (and unintended consequences) or work (sustainability and systems thinking)
- Emergent & new ways of thinking (constraint's, backcasting from success)
- Having clear principles to help guide thinking, decisions & actions
- Having a common language for success

Sustainability helps

- Overcome different understandings
- Can turn complexity to simplicity
- Defined and applicable
- A shared language
- A connector
- A lens to understand the world & create solutions
- The concept that helps enable a successful future society
- Meet key organisational drivers

Consider applying the

Sustainable Development Goals logo

Matching Challenges with Opportunities

- Performance gaps of new buildings
- Energy & water waste
- Improvements to recycling rates
- Sustainability engagement, action, behaviours
- Design, build and use of sustainable buildings

Examples to Apply Now

- Half hourly meter data electricity, gas & water,
- Waste & recycling PV generation & travel data sets
- Behaviour change/psychology waste, recycling, litter, travel, energy use, relationships, etc. etc.

Solar PV Generation
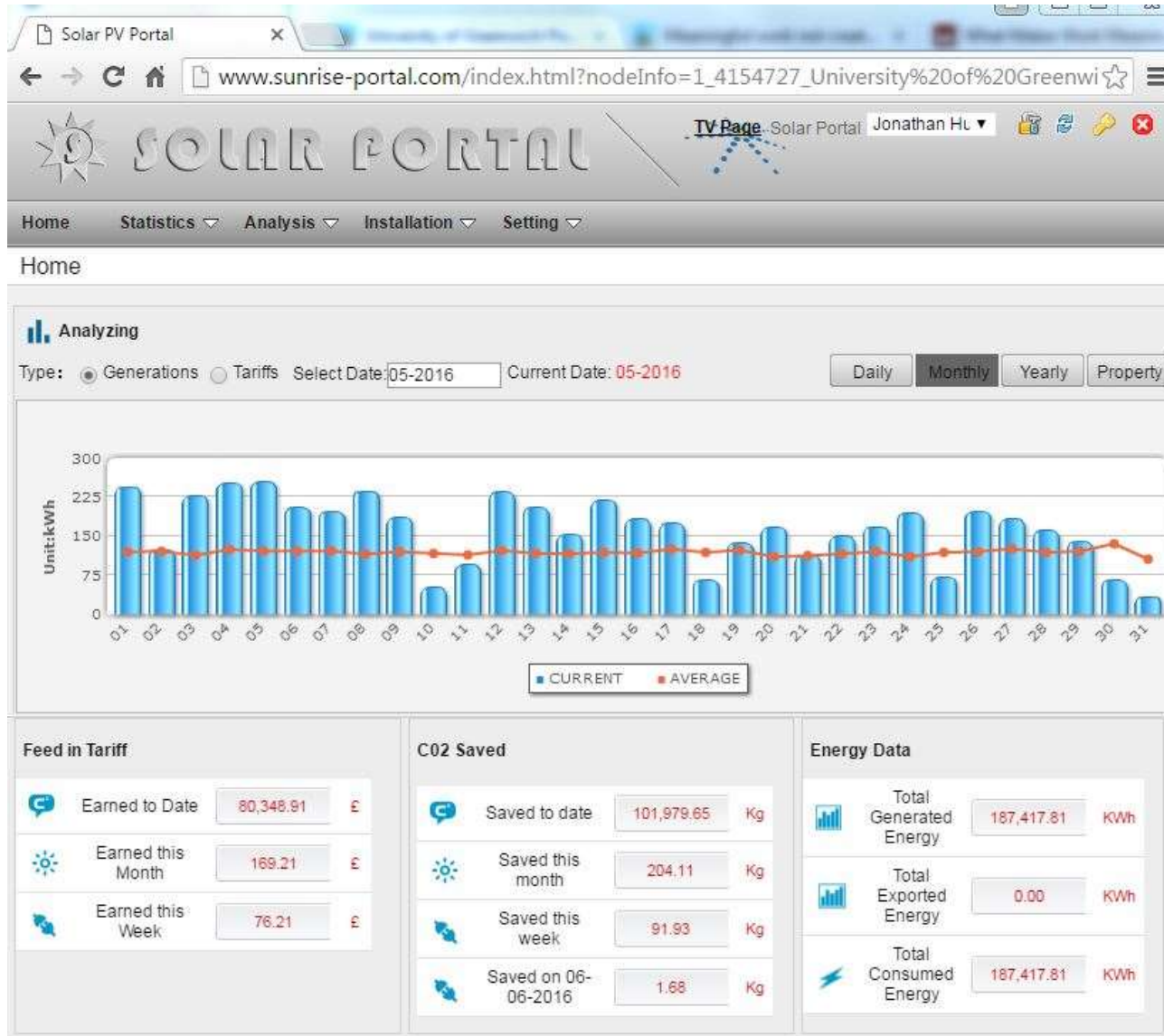
Gas/electricity/water use
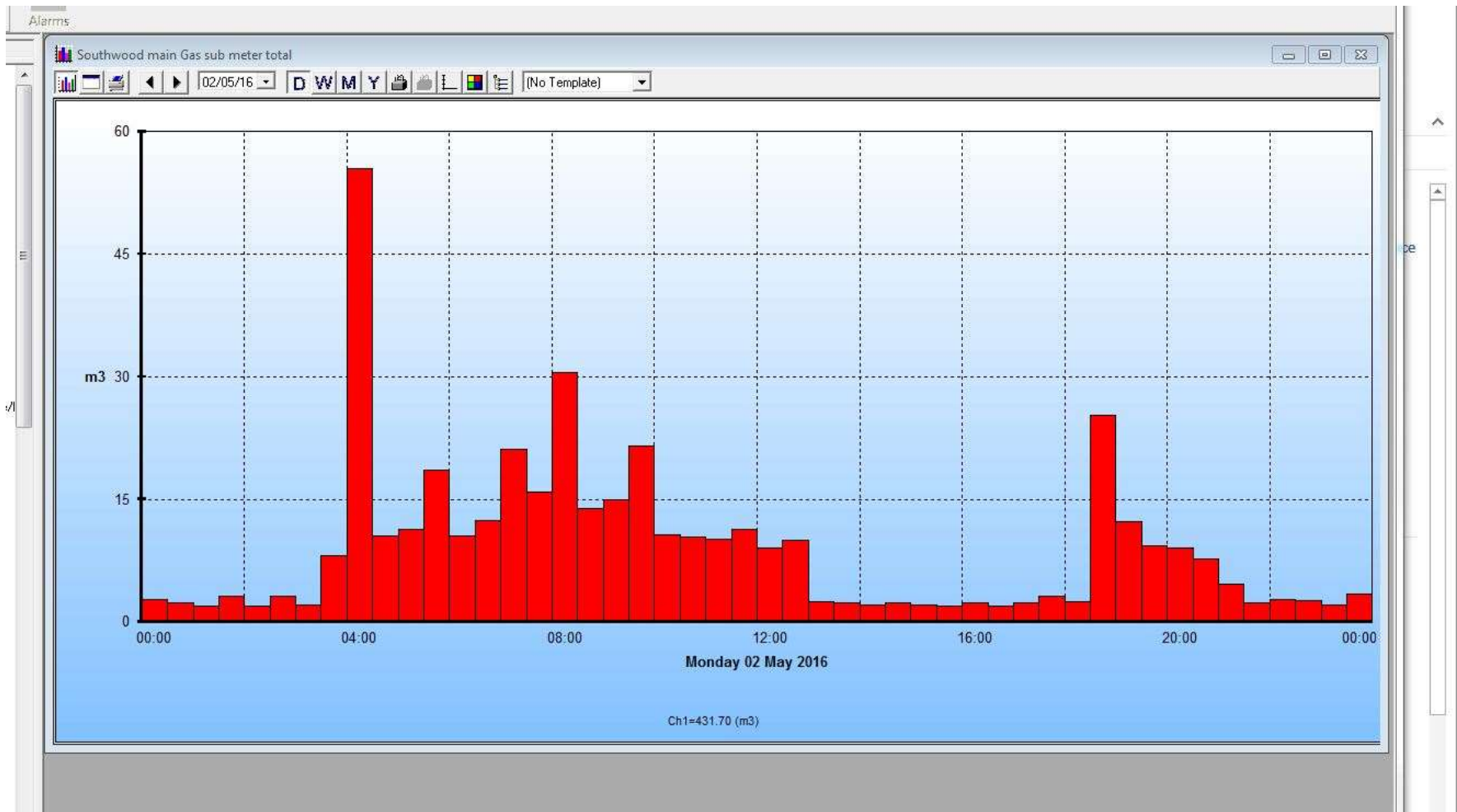
Waste & Recycling
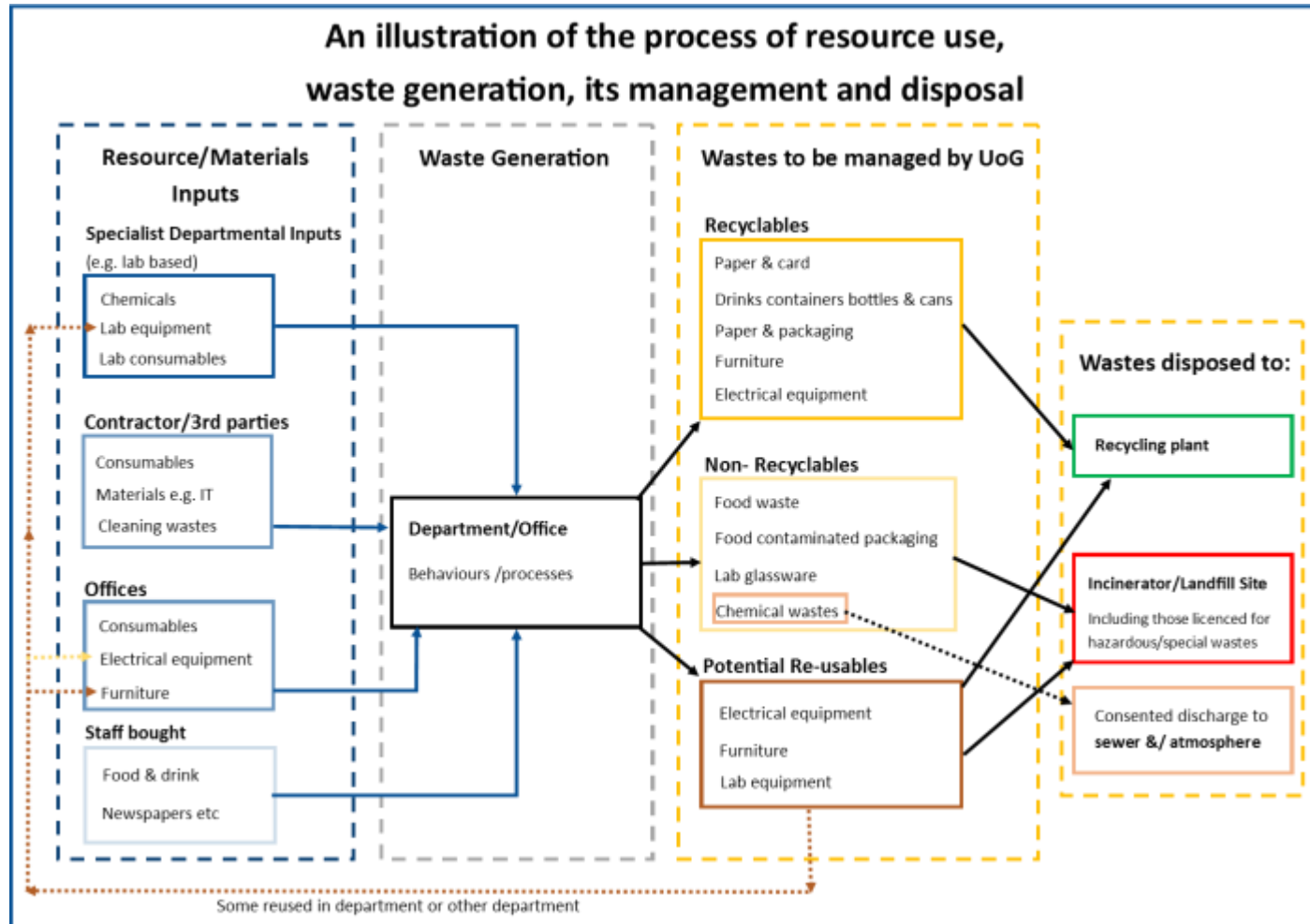
An illustration of the process of resource use, waste generation, its management and disposal

Behaviour change

Actions & Opportunities
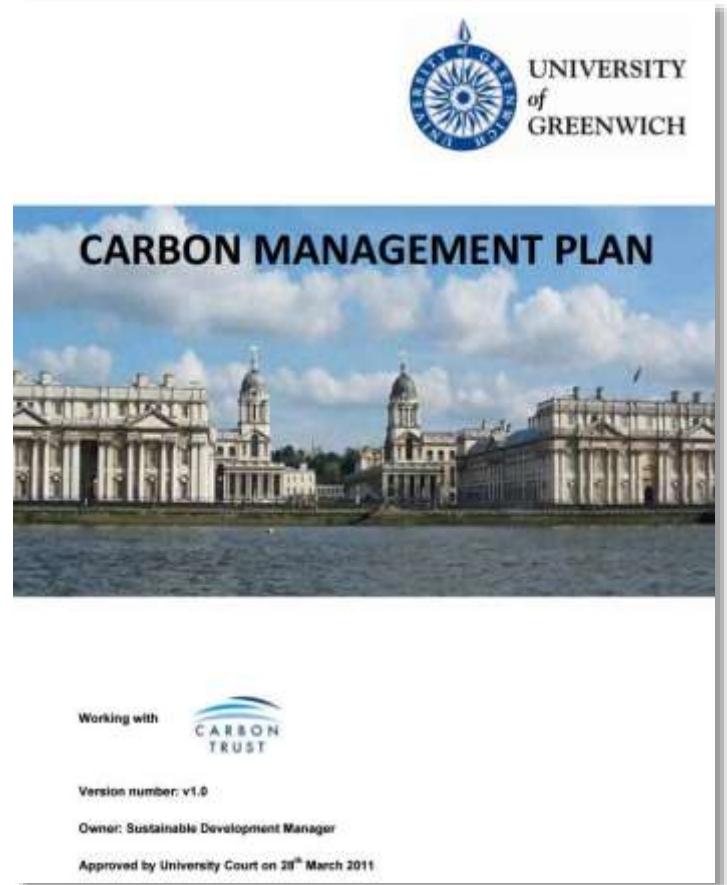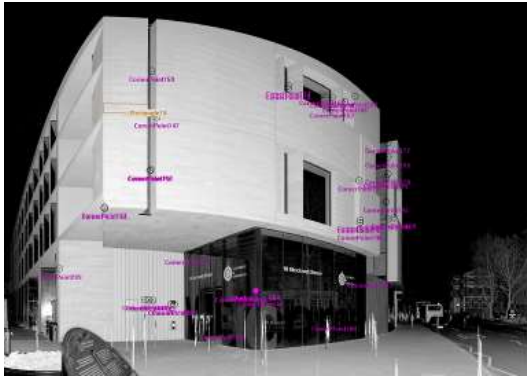
Funding

- Potential to bid into Carbon Management Plan for projects that save carbon with good payback period
- Proposals to Biodiversity Steering Group for landscape & biodiversity related projects
- Proposals for research on waste & recycling projects
- Research pots from faculties
- Funding bodies
- Commercial organisations

What next?

- Contact the Sustainable Development Unit
- Suggest interest/support to DVC Research for SD as a priority area
- Support concept of Living Lab at Greenwich
- Engage your academics & students
- Capture benefits
- Showcase outcomes

The
Sustainable Development Unit

- Strategy & Policy
- Teaching & Education for Sustainable Development
- **Research**
- **Sustainability Communications & Reporting**
- **Living Lab**
- Staff engagement & behaviour change
- ISO 14001 (Environmental Management)
- **Projects, Collaborations & Connections (Internal & External)**

- Contact Simon Goldsmith, gs15@gre.ac.uk, Website Link, Twitter: @sust_Greenwich