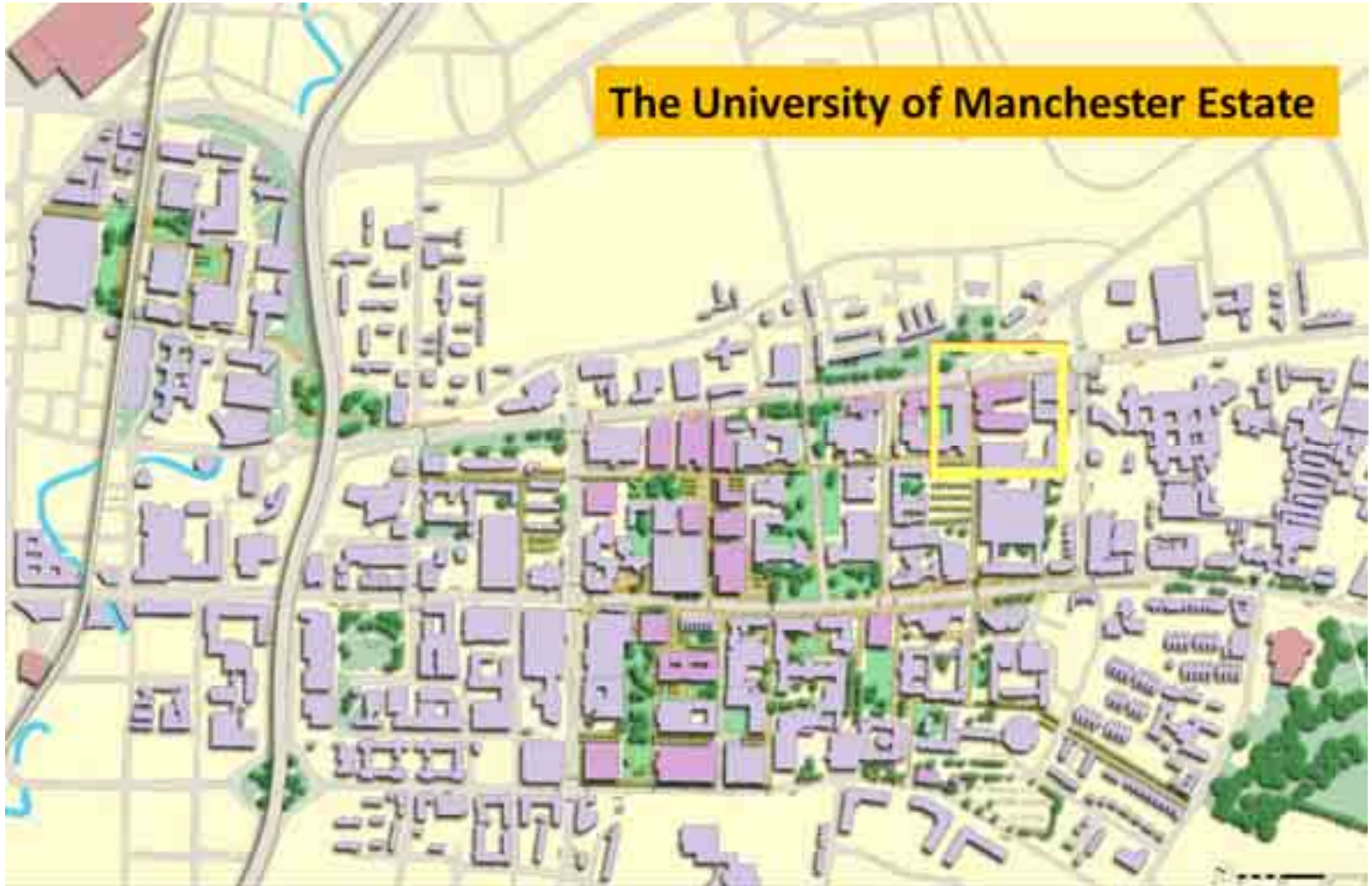


Preparation for display energy certification The impact and opportunity for higher education

Chris Cunningham BEng(Hons) CEng MCIBSE
Assistant Mechanical and Energy Engineer

- Background
- My role at the University
- Objective of today's presentation

The Estate



New Construction



Refurbished Buildings



Diverse Activities





1

2

9

10

11

Challenge One

- Determining buildings covered
- Identifying floor area
- Qualifying the 'activity' sector

Challenge Two

- Obtaining 12 months data for **all** buildings

We use a **M&T which makes this the easy part!**

What are the issues?

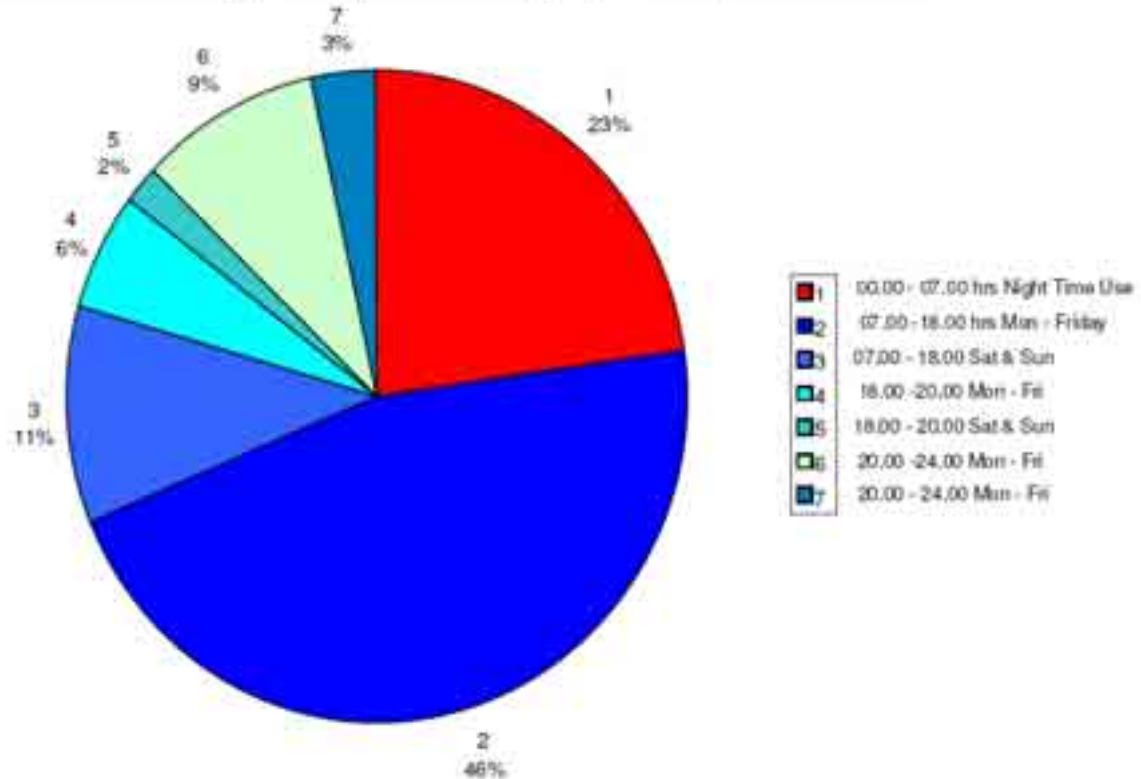
- Time !
- How long to create a display energy certificate?
- At what cost? Internal and/or External

Benefits of an aM&T approach

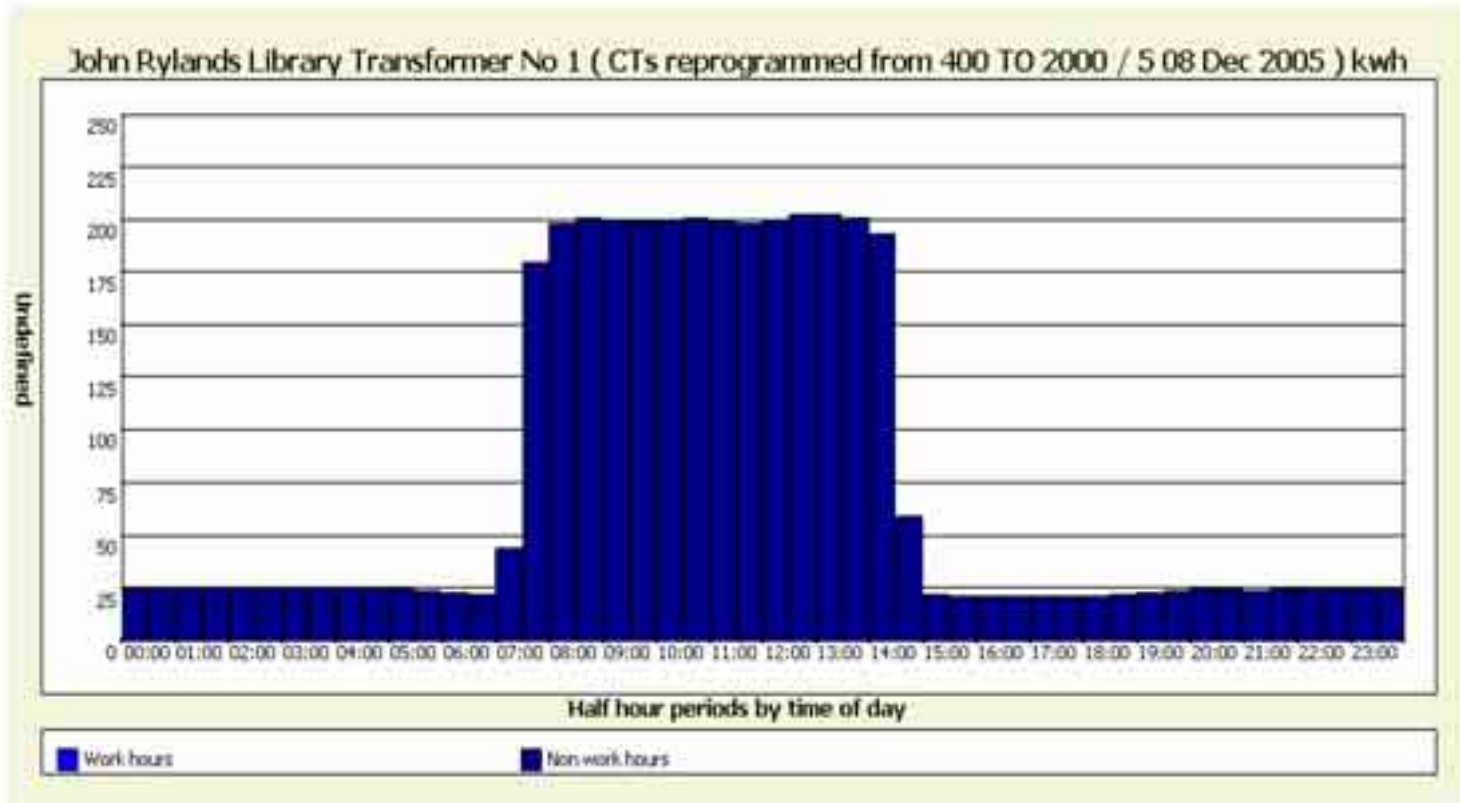
- Shorter Life cycle costs
 - Once set up renewal is minimal pain
- Automated activity
 - Minimal resource drain
- Additional benefits available

Additional benefits of a M&T

Main Campus Total Academic Building Consumption Electric (by %) Consumption Break down



Additional benefits of a M&T



A graph of the all lighting load with a vacant building, no plant or computers switched on

Identify

- unnecessary energy use
- poorly controlled energy use
- inefficient energy use
- inappropriate energy use

- Start preparation NOW
- Consider automation of data for greater benefits
- Keep certification under your control for longer term savings