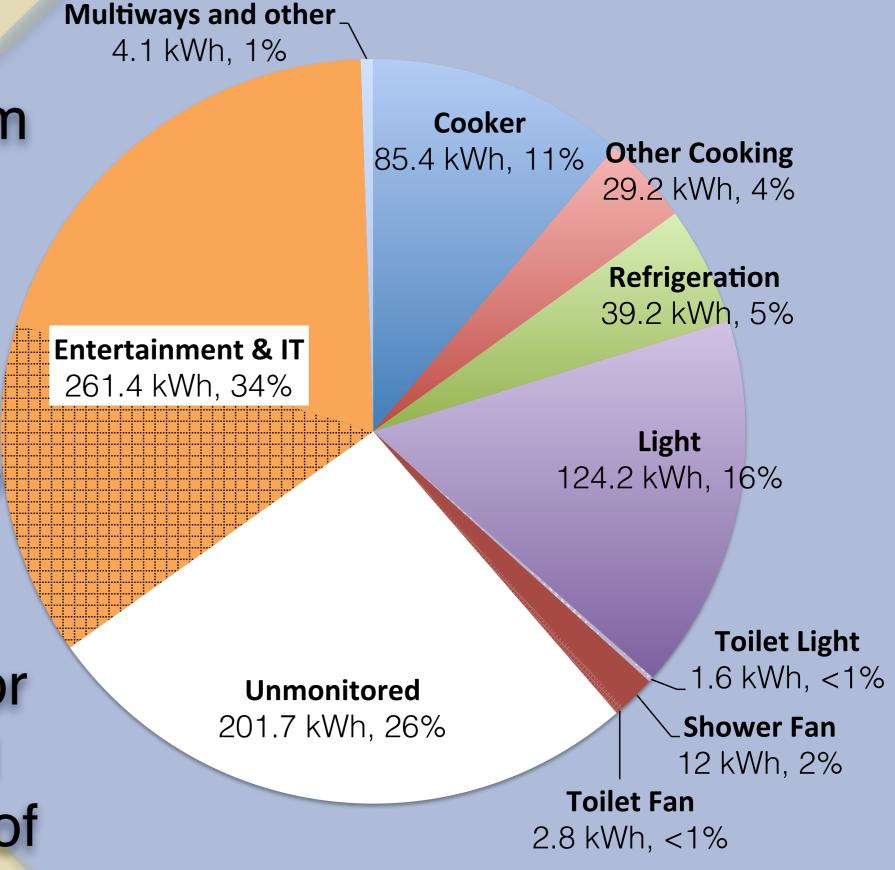
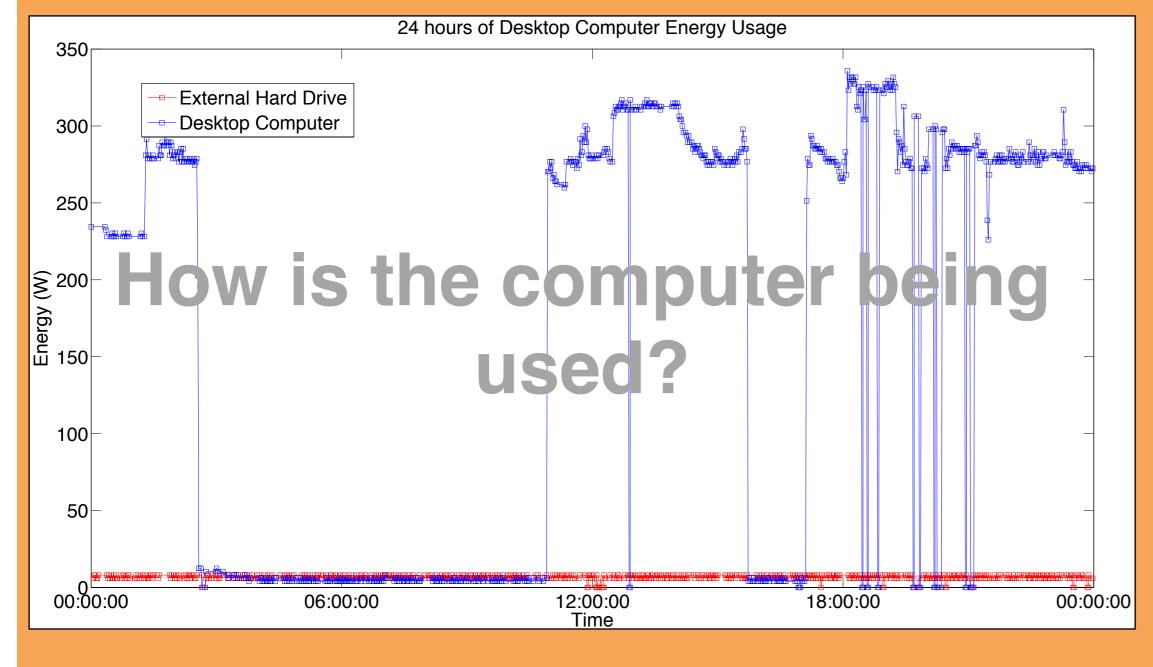
Towards activity-relevant attribution of IT energy usage Oliver Bates - Lancaster University

From a previous study we were able to disaggregate per socket energy consumption from whole domicile energy consumption. We discovered that Home Entertainment and IT devices are centric in many people's lives. Other than heating(cooling), lighting and food preparation/storage, it is the largest contributor to personal energy consumption.

Understanding how and when IT devices, alone or in conjunction with other devices, are used would give a better understanding of how this category of devices contributes to energy consumption.



What Don't We Know?



How can we capture activities and account for them on IT devices?

In a student flat...

- What applications account for what portion of the energy consumption of an IT device?
- How can we tell what multipurpose applications are being used for?
- Are there any other connected devices contributing to the energy consumption?
- What are the energy implications of having a low powered device that connects, via cable or wirelessly, to other devices?
- How does a charging cycle contribute to the energy footprint?

