

## CASE STUDY

### UNIVERSITY HALLS OF RESIDENCE REFURBISHMENT



#### Northern University Complex

#### Business Challenge:

Reduce energy use & improve student living environment

#### Products:

AM&T, LED, Boilers & DHW Cylinders, SMART Controls; Insulation

#### Savings & Benefits:

- 60%+ Lighting Energy Saving
- 27% Overall Electricity Saving
- 38% Overall Gas Saving
- **35% Total Overall Energy Saving**
- Significantly enhanced student environment



#### THE CHALLENGE:

- Minimum 30% Overall Energy Saving
- Consulting-led approach; Programme managed for Client
- Reviewed a series of buildings, one chosen to be exemplar
- Wide-ranging series of interventions recommended
- Restricted timeframe, due to being Hall of Residence – 10 week project
- Multi storey – 4 to 7 storey.; 46 x 6 to 7 bedroom flats plus, kitchens, communal areas & stairwells

#### THE SOLUTION:

- SCAPE used as delivery framework
- Metering & Monitoring – automated AM&T
- LED Lighting with presence detection
- Boiler & Hot Water Cylinder upgrades to high efficiency units
- Automated internet-linked, presence detecting controls, including window sensing thermostat links
- Enhanced building insulation



Packaged Energy Solutions Limited  
288, Bishopsgate London EC2M 4QP  
t: +44(0) 207 959 3066 w: packagedenergy.com

