

# Leverage Metering to Deliver Outcomes

#### **Benefits**



### Compliance

Building Regs and Heat Network Regs



#### Recharging

Mandatory utility recharging code of conduct (RICS)



#### **Accountability**

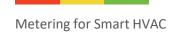
Occupiers as the primary agent for efficiency



#### Benchmarking

Building performance to drive asset value

Metering enables visibility and accountability in multi-use buildings, and if deployed and managed correctly facilitate elimination of energy waste, driving long term asset value



## Metering Strategy Development

#### **Key Considerations**



Very few commercial buildings master all 6 elements due to siloed approach to commissioning and handover to building management.

# Recharging Methodologies

#### How to Minimise Service Charge through HVAC Metering

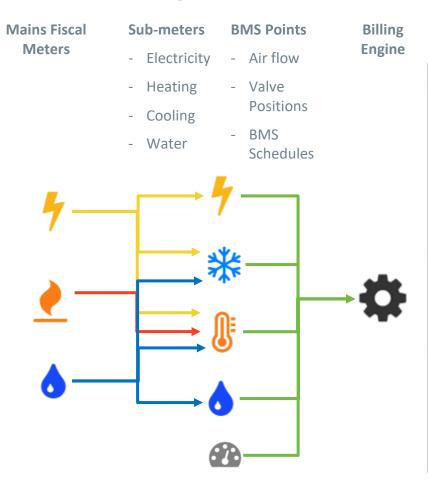
**Focussed Metering Strategy** 

'Real-time' Reliable Data Feed

Real-time Dynamic Apportionment

Occupier Visibility / Engagement

Methodology backed by lease agreement

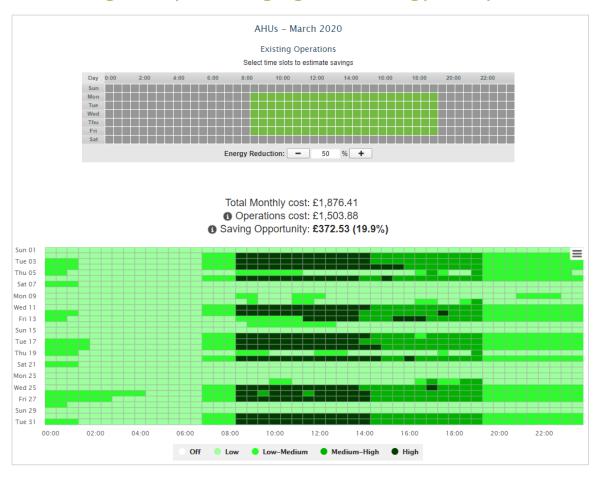


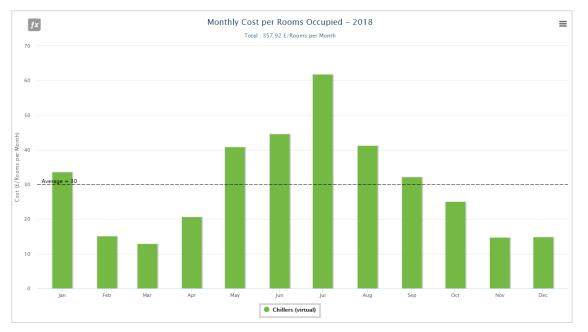
#### **Occupier Recharge**

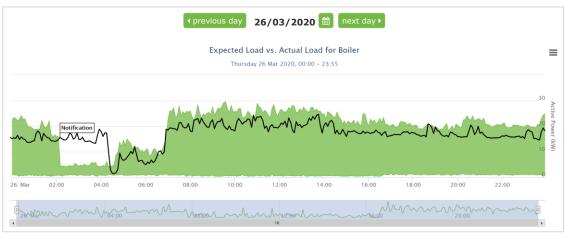
| Utility     | Service          | Sub-Service  |
|-------------|------------------|--------------|
| Electricity | Lighting / Power | Direct       |
|             |                  | Common Parts |
|             | Heating          | LTHW         |
|             |                  | Heated Air   |
|             |                  | DHW          |
|             | Cooling          | CHW          |
|             |                  | Cooled Air   |
| Gas         | Heating          | LTHW         |
|             |                  | Heated Air   |
|             |                  | DHW          |
|             |                  | Common Parts |
| Water       | Water            | Direct       |
|             |                  | Common Parts |
|             | Heating          | LTHW         |
|             |                  | DHW          |
|             | Cooling          | CHW          |

## Tools

### Combining Utility Recharging with Energy Analytics







## **Key Outputs**

#### Metering's contribution to Smart HVAC

## Energy Management & Benchmarking

Ability to combine datasets (energy, BMS, weather) and apply rules to identify exceptions

Automated Notification Engine and Anomaly Reporting feeding into CAFM

Efficiency Benchmarking of Central Plant and Entire Building

Measurement & Verification to prove results of energy conservation measures

# Occupier Engagement & Billing

Occupier engagement leading to more efficient building

Combining energy and BMS data to apply demand driven, transparent recharging



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