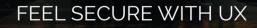


Heat Metering Regulations An overview.



Your best choice for carbon management and compliance.



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UX Energy Services - Overview

- The Utilities Exchange established 1995 independent
- Experienced staff (22)
- Manage 7 TWhs
- Fixed (UX Online®) and Flexible Procurement
- Risk Management
- Portfolios
- Carbon Services, EU ETS, CRC, CCA's, ESOS, Renewables
- Supply Contract and Estate Management services (Bureau)
- Online reporting
- Bespoke work: 10 year price forecasts; PPA's; CHP, renewables evaluation
- Heat Metering Solutions
- Data Services AMR, HH MOP and reporting services
- Water services
- Engineering services



UX Energy Services: Clients

Public and private sector clients:

Manufacturing	 ✓ Jaguar Land Rover ✓ Land Securities ✓ Veolia Water (Regulated + Non Regulated) ✓ Royal Garden Hotel ✓ Dita Llatel 	
Property	 ✓ Ritz Hotel ✓ Network Rail 	
Chamicala	 ✓ GlaxoSmithKline ✓ Aviva 	
Pharmaceuticals	 ✓ Cadogan Estates ✓ DuPont 	
Retail and Leisure	✓ Dominos Pizza	
Financial Services	 ✓ London Fire Brigade ✓ TM Lewin 	
Logistics	 Numerous Councils and NHS Trusts 	3
Public Sector	✓ Aldi✓ Cambridge Coplleges	



The Requirements

- Heat Network (Metering and Billing) (Amendment) Regulations 2015
- Implementing the Energy Efficiency Directive (EED) 2012 with regards to the supply of heating, cooling and steam. (Articles 9,10 & 11)
- Enforced by National Measurement and Regulation Office. (NMRO)
- The Regulations place certain responsibilities on anyone supplying and charging for heat, cooling or hot water
- Applies to bulk supply meters and end users alike

PROCUREMENT

SERVICES

RISK

AGEMENT

MARKET

The objective of the Regulations is to optimise the use of low carbon sources and meet EED National 2020 target

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The Requirements

- Regulations are to encourage users of heat, cooling or steam to be aware of their consumption and costs, and increase efficiencies
- Especially created to cover Communal and District Heat Networks and introduce measurement

Deadlines:-

- Original deadline for notification to NMRO was 30th April 2015 Changed to 31st December 15.
- Install compliant meters in properties by 31st Dec. 16??



The Requirements

- To bill to be based on accurate consumption data and to include:-
- Current energy prices
- Energy consumption

MARKET

INTELLIGENCE

PROCUREMENT

SERVICES

RISK

- Comparisons year on year, inc. CO² content of heat
- Transparency of charges, inc. maintenance, standing charges etc
- Contact info energy eff. organisations etc

DATA

SERVICES

 It is recommended that suppliers of heat, cooling or hot water, carry out an annual cost comparison against a standard alternative heating system

CARBON

MANAGEMENT

RENEWABLES

SERVICES

CONSULTANCY

SERVICES

6

The numbers

- At least 210,000 homes and 1,700 businesses affected
- 2000 DH schemes across the UK
- Est. 25% CO² from domestic heating
- 60% reduction target for London by 2025
- Estimated that only 25% of community heated households have meters

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RENEWABLES

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CONSULTANCY

SERVICES

BUREAU SERVICES

• £300m DECC budget

PROCUREMENT

SERVICES

RISK

MANAGEMENT

- £2B investment into Heat Networks
- Additional 200 DH Networks by 2025

DATA

SERVICES

MARKET

INTELLIGENCE

The Challenges

- Practices have been mixed/poor to date
- High secondary heat losses within buildings
- Lack of secondary insulation
- Buildings overheating + 50°C!
- Thermal bridging
- Clients don't know what they want
- Designers don't see the results
- Lack of data
- Pre payment options can be challenging
- Poor image WHICH report!

The Challenges

CARBON

MANAGEMENT

RENEWABLES

SERVICES

CONSULTANCY

SERVICES

BUREAU SERVICES

- Return temperatures to high
- Flow/Return rates incorrect in design
- Heating schemes are not optimised
- Uncompetitive heat and/or gas supply contracts
- Unreliability of metering/HIU's/valves where installed
- Poor end user relations and system management

DATA

SERVICES

- Misleading information on costs
- History of debts and under recovery
- Pushing end users into fuel poverty?
- Are consumers getting a fair deal?

MARKET

INTELLIGENCE

PROCUREMENT

SERVICES

RISK

MANAGEMENT

The Challenges

CARBON

MANAGEMENT

RENEWABLES

SERVICES

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SERVICES

BUREAU SERVICES

- Unregulated monopoly OFGEM reviewing
- Inefficient schemes, need a UK register for transparency
- Disproportionate costs/bills, need transparency

DATA

SERVICES

- No comparators i.e. gas kWhr vs heat kWhr
- Huge variances on what is being charged and recovered
- High number of user complaints

MARKET

INTELLIGENCE

- Debt recovery issues
- Payment options

PROCUREMENT

SERVICES

RISK

MANAGEMENT

Moving forward

- Review all heat supplied buildings and create a national register
- Survey all "The heat supply networks"
- Review current charging methods
- Examine the "energy" supply contract
- Establish robust maintenance regime for plant
- Establish clear, fair, transparent tariffs
- Viability assessment tool delayed

MARKET

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PROCUREMENT

SERVICES

RISK

AGEMENT

- Get ahead to manage compliance 'Future Proofing'
- Develop a communications strategy for end users

DATA

SERVICES

 Finally CIBSE & ukDEA - Association for Decentralised Energy have created a 'Code of Practice' for Heat Networks, that provides good information

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Thank you



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