

Sub- Metering

the Case for Monitoring and Measurement

Water

“The Forgotten Utility”

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Agenda

What is Sub Metering?

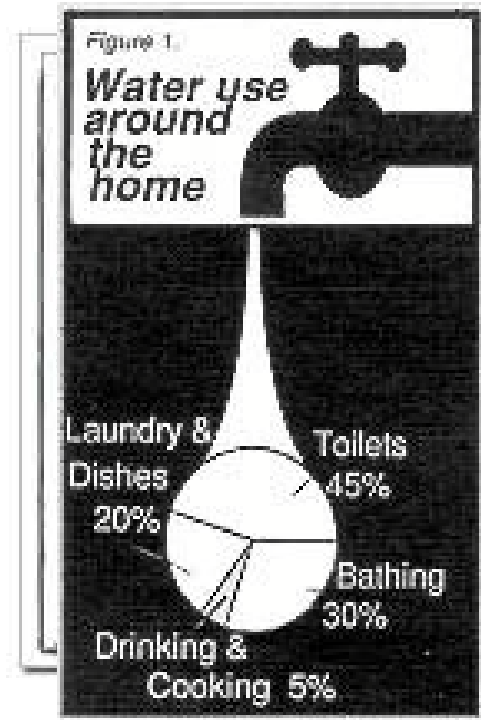
- Benefits
- Cost to you
 - Knowledge is Power
 - Accurate Measurements
 - Implications for you
 - The Environment
- The Solution
 - Investment in Change
 - Savings
- Summary

What is Sub- Metering?

- Introduced in the 1920's
 - Sub Billing of customers/tenants/Sub Users
Landlords,
Commercial Building,
Apartment Blocks
- Developed into a sophisticated tool for water analysis
 - Highlights individual usage for each part of a business
 - Accurate indication of Water consumption
 - Accurate indication of your Water Profile

Benefits of Sub- Metering

- Reduce CO2
- Improved sustainability
- Accurate up to date data
- Understanding water demand
- Reducing water bills



Water & CO2: The Cost to Buy Water Company?

- Prices are increasing by Inflation+ 1-5 % (AMP 5 determination – OFWAT).
- Carbon Reduction Commitment (CRC) tax
 - Current cost to utility companies: £12 per tonne of CO2 equivalent
 - 2013: £16/ tonne of CO2 equivalent
- £ is added to utility bills to cover CRC tax



Water Consumption: the cost to you

- Usage
- Wastage
- Leakage
- Sewerage
- Water surface charge



Do you really want to pay more than once?



“Knowledge is Power”

- Currently meter readings taken 6 months - 2 years
... this needs to change.
- Single site usage variations:
 - office/ production
 - Kitchen/ washing facilities/ front of house
 - Process vs process
- Franchise operations with multi – users on one site
- Multi- site usage variations:
 - Regional monopolies mean regional variations
 - Comparisons and benchmarks

Benefits of Sub- Metering

Accurate consumption measurements.

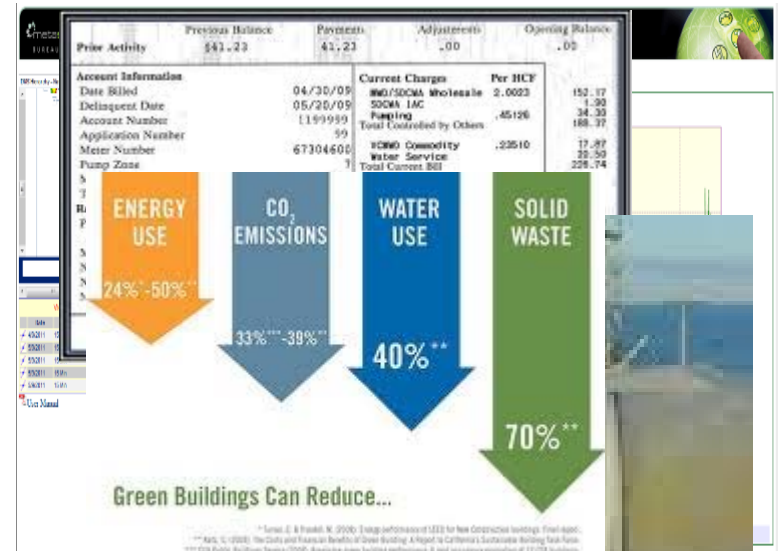
- Who?
- What?
- Where?
- When?



What does Sub-Metering mean for you?

Reducing operating costs:

- Bill validation – up to 20%
- 'Normal' usage patterns
 - Leakage reduction
- Site comparisons
 - Eradicate inefficiency
 - wasteful consumption
- CAPEX/ OPEX reduction



Helping the Environment

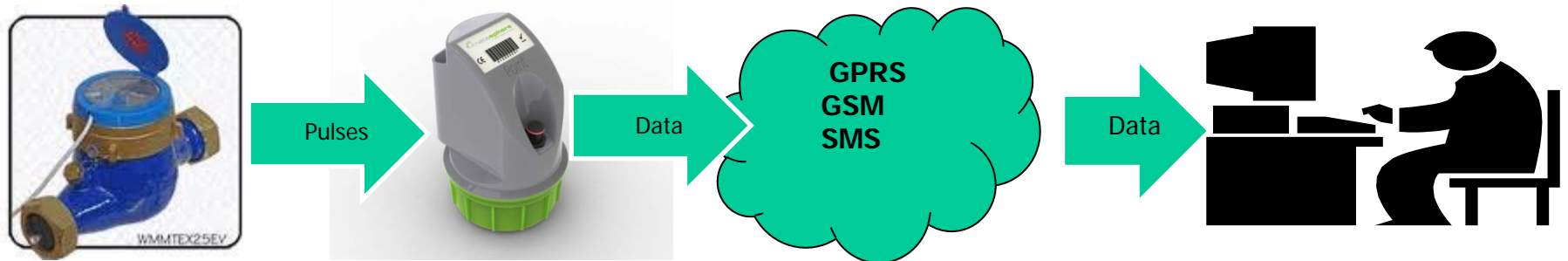
- Changes the way water is used
 - Culture
 - Behavioural
- Reduces water footprint
- Reduces CO2 footprint
- Pro- active Corporate Social Responsibility



Sub- metering solution: Data Loggers

What do they do?

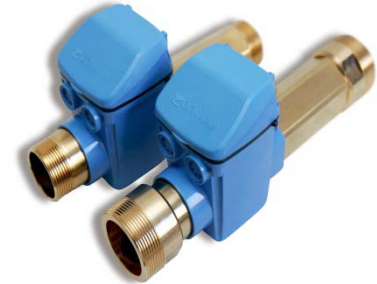
- Connect directly to sensors, meters or process equipment
- Can remotely monitor data at various points on one single site or multiple sites
- Collect data automatically via GPRS, SMS, WiFi, VHF Radio etc
- Transfer data to a central server for analysis once a day



Data logger requirements

Loggers - typical specification:

- Compact and self-contained IP68 unit
- Battery powered - Replaceable 5+ years
- Built in communications



What are the costs?

- Typical investment per installed unit £400.00
- Typical annual running costs for communications and reporting £100.00

What are the savings?



Tesco have harvested 182,000m³ of rainwater since 2006 saving them **£372,000** of water company charges



Saves **£50,000** per annum



Annual saving of **£40,503**.

A refund of **£206,627** was secured for overcharges

Conclusion

Benefits of Sub- Metering

- Cultural and Behavioural Change
- Reduce CO2
- Improved sustainability
- Accurate up to date data
- Understanding water demand
- Reducing water bills



Sub- metering-
monitoring and measurement

Make Data Count

Thank you

Questions?

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