

British Gas  
**Business**



# Installing and Implementing AMR

## Experience of a Large Scale Roll-Out

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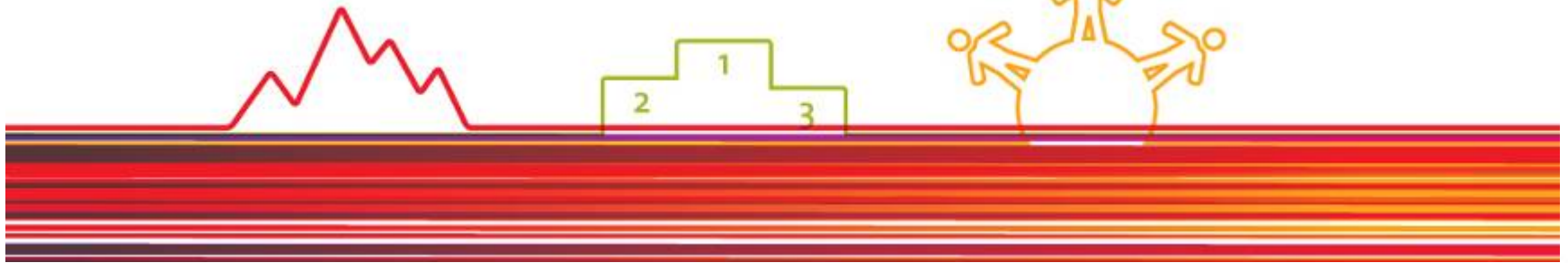


# BGB's Large Scale Roll-Out

Over 50,000 AMR installations since 2006

NHH Settlement Performance Increased from 70% to 96%

Increased Customer Satisfaction



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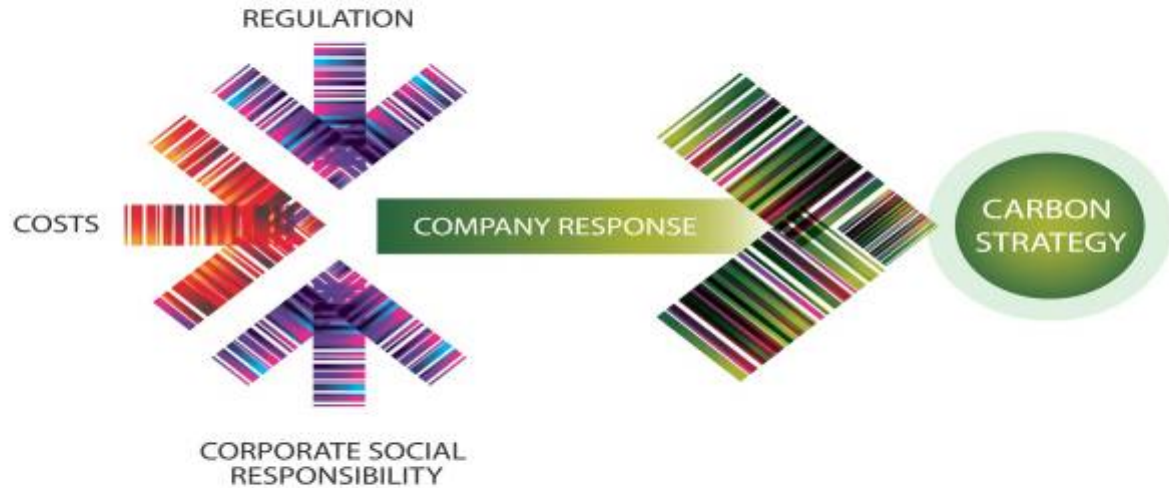
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# Carbon Strategy

CCL, CCAs, EU-ETS,  
SOGE, DECs/EPCs, CRC EES

Cost Reduction Targets  
Cost Management  
Budgets and Forecasting



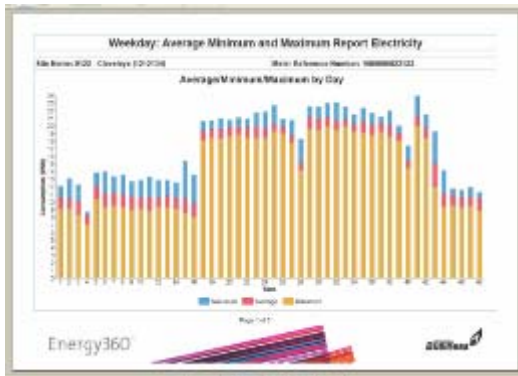
Consumer Pressure  
Green Credentials  
League Tables

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# Establish Requirements - Data

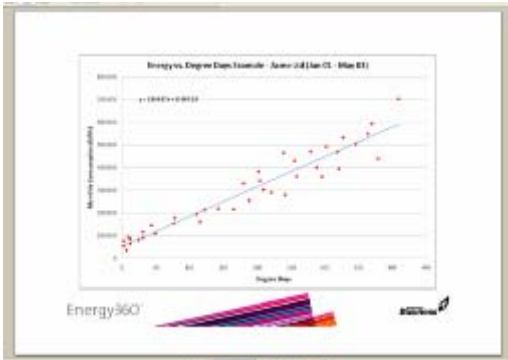
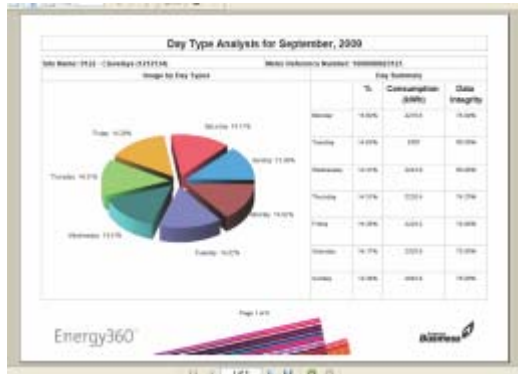


Day	Total Consumption (kWh)	Maximum Demand (kW)	Carbon Emitted (kgCO2/kWh)	Data Integrity (%)
20/08/2008	111.1	12	477.0	100.0%
21/08/2008	84.9	10	467.9	100.0%
22/08/2008	62.9	10	467.9	100.0%
23/08/2008	77.0	10	477.0	100.0%
24/08/2008	70.9	10	477.0	100.0%
25/08/2008	80.9	10	477.0	100.0%
26/08/2008	100.0	10	477.0	100.0%
27/08/2008	100.0	10	477.0	100.0%
28/08/2008	100.0	10	477.0	100.0%
29/08/2008	100.0	10	477.0	100.0%
30/08/2008	100.0	10	477.0	100.0%
31/08/2008	100.0	10	477.0	100.0%
01/09/2008	100.0	10	477.0	100.0%
02/09/2008	100.0	10	477.0	100.0%
03/09/2008	100.0	10	477.0	100.0%
04/09/2008	100.0	10	477.0	100.0%
05/09/2008	100.0	10	477.0	100.0%
06/09/2008	100.0	10	477.0	100.0%
07/09/2008	100.0	10	477.0	100.0%
08/09/2008	100.0	10	477.0	100.0%
09/09/2008	100.0	10	477.0	100.0%
10/09/2008	100.0	10	477.0	100.0%
11/09/2008	100.0	10	477.0	100.0%
12/09/2008	100.0	10	477.0	100.0%
13/09/2008	100.0	10	477.0	100.0%
14/09/2008	100.0	10	477.0	100.0%
15/09/2008	100.0	10	477.0	100.0%
16/09/2008	100.0	10	477.0	100.0%
17/09/2008	100.0	10	477.0	100.0%
18/09/2008	100.0	10	477.0	100.0%
19/09/2008	100.0	10	477.0	100.0%
20/09/2008	100.0	10	477.0	100.0%
21/09/2008	100.0	10	477.0	100.0%
22/09/2008	100.0	10	477.0	100.0%
23/09/2008	100.0	10	477.0	100.0%
24/09/2008	100.0	10	477.0	100.0%
25/09/2008	100.0	10	477.0	100.0%
26/09/2008	100.0	10	477.0	100.0%
27/09/2008	100.0	10	477.0	100.0%
28/09/2008	100.0	10	477.0	100.0%
29/09/2008	100.0	10	477.0	100.0%
30/09/2008	100.0	10	477.0	100.0%
01/10/2008	100.0	10	477.0	100.0%

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- Reads for Billing Only
- Early Action Metric
- Basic Energy Data
- Advanced Functions
  - Degree Days
  - CUSUM
  - Benchmarking
- Smart Displays



# Establish Requirements - Contract

Scope of Work

Electricity, Gas, Water, Oil, LPG, Sub-Metering

Contract Term

Typically 5 Years: Option of 3 to 10 Years  
Invoicing Requirements

Ownership

Lease, Capital Purchase, Annualised Purchase

Accreditations

Meter Operator (MoP), Data Collector/Aggregator (DC/DA)  
ESTA ASPCoP, Water Company Approvals

Procurement Route

Energy Supplier, AMR Provider  
Public Sector Buying Solutions AMR Framework

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# Collate Information



Site Addresses



MPAN/MPRN/MSN



Contact Details



Utility Supplier Details

# Technical Considerations

## Electricity:

Profile Class

Single / Three Phase

CT / Whole Current

GSM Signal

- Enhancements
- Fixed Lines



## Gas:

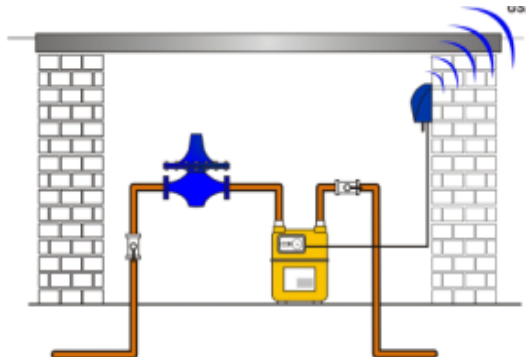
Gas Meter Pulse Status

Optical Devices / Meter Exchange

- Meter Asset Provider / Manager

GSM Signal

- Enhancements



# Project Kick-Off Agenda

Confirm Contract Details

Provide Letters of Authority

Review Roll-Out Programme

BGB Enhanced Validation

Enhancement / Exception Management

Health & Safety

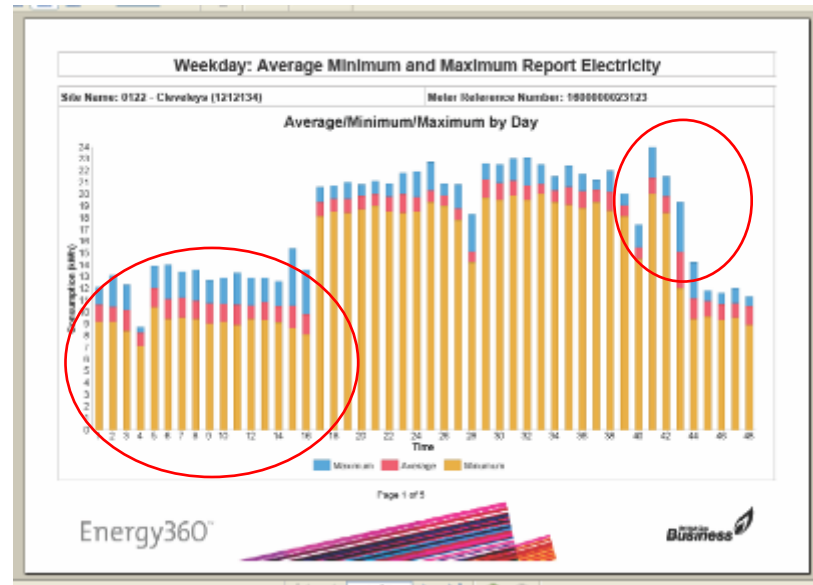
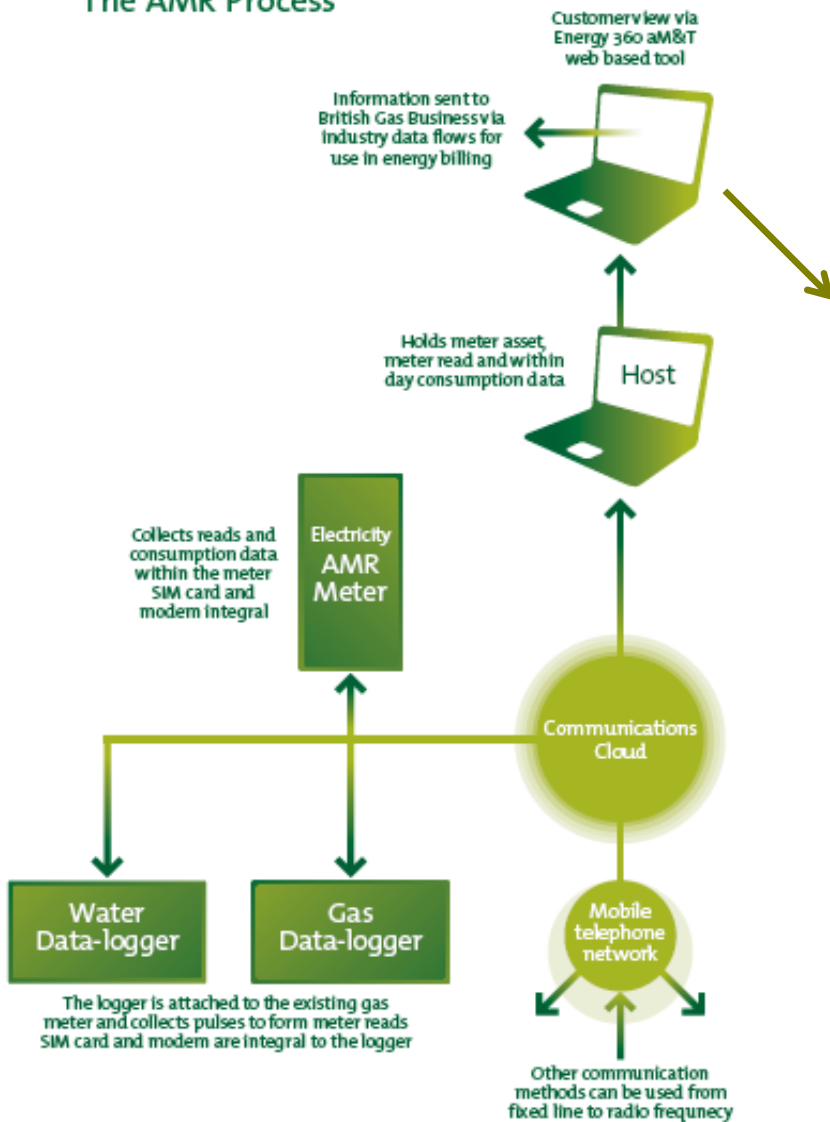
Security and Access

Progress Reporting



# Implementation

## The AMR Process



# Summary

Determine your Requirements

Use accredited technologies / providers

Collate Accurate Information

Consider Impact of Installation

Use the data to make savings

[www.energy360.co.uk](http://www.energy360.co.uk)



Thank you for listening

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