



## CRC – Where are you in the league?

*Thoughts on Year 1 and the future.*

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Marketing Manager

# An Holistic Energy Management Solution



Energy Analysis



Contract Bid Management

Financial Analysis



Automated Reporting

Alarms



# eSight®

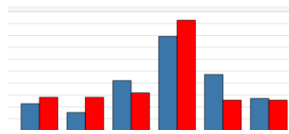


Dashboards

Calculated Meters

Tenant Billing

Benchmarking



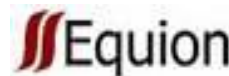
Energy Procurement

Invoice Validation

CRC Reporting



Bill Verification



# The league table has been published...

Ranking	Registration Number	Organisation Name	Trading Name	Weighted Score	Emissions (Tonnes of CO2)	Early Action Metric (%)	Absolute Metric (%)	Growth Metric (%)
1	CRC0000004	Organisation D	Brand D	6.5	11569	100.00		0.00
1	CRC0000002	Organisation B		6.5	53801	100.00		0.00
3	CRC0000006	Organisation F	Brand F	5	68549	75.00		-
4	CRC0000007	Organisation G		4	4993	70.00		0.00
5	CRC0000001	Organisation A	Brand A	3	10100	35.00		-
6	CRC0000003	Organisation C	Brand C	2	66118	25.00		0.00
7	CRC0000005	Organisation E		1	12524	0.00		-

## Why did it take so long?

- 2 week extension to final submission date
- Information overload
  1. Early Action Metric - Average of:
    - the participant's CRC emissions certified management schemes which the Environment Agency
    - the proportion of the participant's electricity through voluntarily installed automatic unmetered supply, and daily-read gas meters
- Accuracy is vital

2765 Participants

2174 Footprint Reports

2016 Annual Reports

“At this time, we anticipate that the PLT will be published in November. We have agreed with DECC that we will notify participants of the publication date one week before release. There is much ongoing work in the background to review and produce the PLT as accurate as possible, so at this stage I can't be more specific as something unexpected could delay us.”

-Carl Sweeney, OM of CRC EES,  
Environment Agency

## What does the league table mean to your organisation?

- Will it become a green-lobbyists dream?
- Will we see a tabloid name and shame?
- Is it only good for those at the top?
- Consumer viewpoint? Public views?
- Fluctuating positions in table: Year on Year improvements and Growth Metric



## What does it mean to you?

- Top-down support?
- Staff buy-in to energy management?

## Where are you?

Premier League

**RICOH  
ARENA**

99 Bishopsgate  
Management Ltd.

Mothercare

DECC

The Co-op

OFGEM

Hilton Hotels

Morrisons

Championship

Aldi

Volvo

Hewlett Packard

Aviva Plc.

Pizza Hut

Lancashire County Council

Specsavers

League Two

Over 800 Companies

## A Grocery example.

Position	Grocer
1	The Co-op
2	Morrisons
3	John Lewis (Waitrose)
4	Marks & Spencer
5	Tesco
6	Sainsburys
7	LIDL
8	Aldi

Most competitive  
Lower operating costs  
Lower CRC costs  
Great press

Less competitive  
Higher operating costs  
Higher CRC costs  
Bad press

## A Prime Example from the Premier League.

### Reason for success?

- Full understanding of buildings
- Full monitoring & control of buildings
- Team effort, staff support, boardroom support

### The positives:

- Awareness of energy & carbon
- Reporting is easy once information collated

### The negatives:

- Moving goalposts
- Setting up CRC
- Needs worldwide focus

### Plans for next year

- Reduce consumption by 10%
- Spurred to stay at the top of the table
- Support from govt. will help with renewable energy

- Reduced electricity consumption by 15%
- Reduced gas consumption by 6%
- Reduced water consumption by 13%

The logo for Ricoh Arena, with "RICOH" in a large, bold, red sans-serif font and "ARENA" in a slightly smaller, bold, red sans-serif font below it. To the right of the text is a gold medal with a blue, white, and red ribbon, featuring a large number "1" in the center, signifying a first-place achievement.

RICOH  
ARENA

Where will CRC be next year?

What changes will be made again?

Can businesses cope with another tax?

## What next?

- 3 Metrics taken into account
  1. Early Action Metric - Average of:
    - the participant's CRC emissions certified under one of the seven carbon management schemes which the Environment Agency have accredited;
    - the proportion of the participant's electricity and gas supplies measured through voluntarily installed automatic meter reading devices, dynamic unmetered supply, and daily-read gas meters in year 1.
  2. Absolute Emissions Metric – Annual % change emissions
  3. Growth Metric – The % change in CRC emissions per unit turnover (private sector) or revenue expenditure (public sector)

# What next?

	Year 1 2010/2011	Year 2 2011/2012	Year 3 2012/2013	Year 4 and all other years
Early Action Metric	100%	40%	20%	0%
Absolute Metric	0%	45%	60%	75%
Growth Metric	0%	15%	20%	25%

	Year 2 2011/2012
Early Action Metric	40%
Absolute Metric	45%
Growth Metric	15%

## What if I'm at the top?

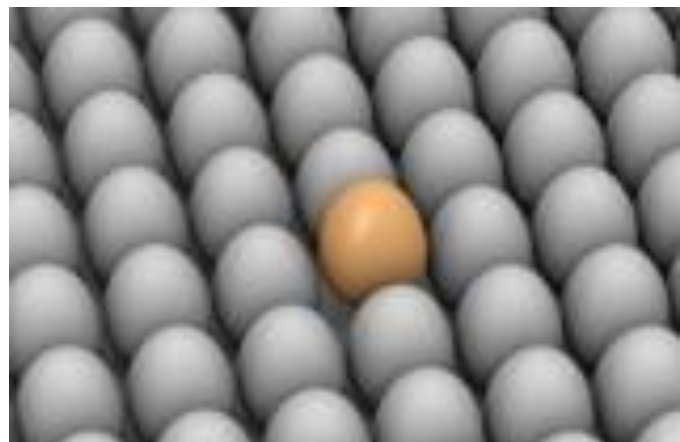
- Congratulate yourself, and your team
- Communicate it to the public & your staff
- You're well-prepared for success
- Focus next on energy and carbon savings
  - Plan efficiency projects
    - New technologies
    - Calculate ROI
  - Staff involvement in energy
  - Forecast for next year's carbon allowance requirements
  - **Focus on year on year improvements**
- Don't be complacent, it's all to play for!

aM&T



## What if I'm lost in the middle?

- See where your competitors are
- EAM is still in calculation for next year, but you can't change the AMR component of its calculation – can you improve the CRC emissions certified component?
- Focus next on **energy and carbon savings**
  - Plan efficiency projects
    - New technologies
    - Calculate ROI
  - Staff involvement in energy
  - Forecast for next year's carbon allowance requirements
  - Get staff involved
  - Plan **year on year** improvements
  - USE DATA!



aM&T

## And, if I'm at the bottom of the league?

- Don't be disheartened!
- EAM is still in calculation for next year, but you can't change the AMR component of its calculation – can you improve the CRC emissions certified component?
- Focus next on **energy and carbon savings**
  - Plan efficiency projects
    - New technologies
    - Calculate ROI
  - Staff involvement in energy
  - Forecast for next year's carbon allowance requirements
  - Get staff involved
  - Plan **year on year** improvements
  - USE DATA!
- You have everything to play for!

The logo for aM&T, consisting of the letters "aM&T" in a blue, sans-serif font. A blue bracket on the left side of the logo groups the list of energy and carbon savings actions.

aM&T



## What issues have been seen in Year 1?

"With so many climate champions across the company, First Direct does not encounter opposition to new carbon reduction measures."

First Direct

"The criteria are quite simple regarding the CRC Energy Efficiency Scheme participation and non-participation. It's based on electricity consumption. There is no grey area for us; we meet the CRC Participant requirements."

University of Manchester

"I'm head of carbon management, but I'm one person out of 5,000 employees. Everyone can play a role. We highlight the achievements we are making so staff can see the pay-off associated with their efforts."

Thames Water

"Since we implemented our Carbon Management Strategy, the college has reduced its carbon emissions by 12.5 per cent, which equates to a reduction of 4,900 tonnes of CO2."

King's College London.



## What issues have been seen in Year 1?

"During 2007/2008, we met our commitment to design commercial buildings with, on average, 20 per cent lower carbon emissions than required by building regulations. We actually achieved a 35 per cent improvement. We are now on target to reach our 2010 goal of a 10 per cent reduction in CO2 emissions in our managed offices."  
Land Securities Group PLC

"In 2009, we changed our street lighting policy and are now beginning the work to switch off 49,000 residential street lights in Devon from 12:30 am to 5:30am. Over the next three years this will save in excess of 3,000 tonnes of CO2."  
Devon County Council

"Our Anglian region enforced a 19 degrees Celsius office temperature policy for the winter months and put the heating on two weeks later than in the previous year. This cut gas use by 34 per cent and reduced the region's heating bill significantly."  
Environment Agency



# What issues have been seen in Year 1?

## 1. Reporting Issues

- Property Co-ownership and transfer
- Ownership knowledge – don't know where the meters are!
- Multi-tenanted buildings – does the landlord pay, do they have the information?
- Participants "remembering" properties at the last minute
- Source list tool not suitable for large organisations
- More complicated than ever imagined

## 2. Accuracy Issues

- Carbon Laundering
  - Outsourcing carbon intensive business areas
- Construction of new builds
- Data from suppliers vs. data from other sources

## 3. Scrapping of recycling payments

- Is it now viewed as an administrative & financial overhead, not an energy-saving policy?



## What issues have been seen in Year 1?

### 4. Data Collation

- Multiple suppliers – different data output methods
- Sourcing, ownership and access to data
- Using aM&T

### 5. Participant Uncertainty

- Moving policy goalposts = Delayed preparations = late panic (FIT)
- Economic uncertainty (organisations downsizing)
- EU uncertainty



## What issues have been seen in Year 1?

### 6. Internal Organisation & Communication

- Defining staff roles & responsibilities
- Creating procedures, arranging data storage, reporting & audits
- Embedding CRC in the organisation and communicating it

### 7. Learning Curve

- Year 1 was STEEP!

### 8. Supplier Data Issues

- Have had to setup specific departments to deal with CRC data requests



## What benefits have been realised in Year 1?

- CRC Participants are forced to understand what they spend on energy
- They now see the need for energy information, and want it available at the click of a button (aM&T)
- Participants are enthusiastic about installing AMR to better understand their energy consumption
- Energy has become a known unknown
- Now some effort has been taken to invest in AMR and aM&T, it's much simpler to move on to energy monitoring and targeting for efficiency



## What effect will the simplification have?

- provide greater business certainty by introducing two fixed price sales a year (one forecast and one retrospective), rather than auctions of allowances in a capped system, in the second phase. – “buy to comply” or “forecasting” approaches.
- allow for greater flexibility for organisations to participate in ‘natural business units’;
- reduce the administrative burden (e.g. reducing the number of the fuels reported from 29 to 4; using only electricity measured by settled half hourly meters (HHMs) for qualification purposes; ending the requirement for footprint reports etc.);
- reduce scheme complexity (by removing the complex residual percentage rule (‘90% rule’) and CCA exemption rules, but aiming to achieve broadly the same outcomes)
- reducing overlap with other schemes (so that businesses covered entirely by CCAs do not need to register; no longer requiring EU ETS installations to purchase allowances for electricity supplies).



## What else can be done to ease CRC Reporting?

- Needs further simplification
  - Alignment with info gathered for DEC's, EPC's etc.?
- Designated personnel within organisations
- Integrated Energy Management and CRC Reporting
- aM&T System or help from a dedicated consultant



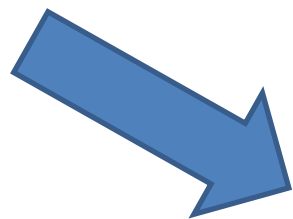
## What will we see in the future?

- Prosecutions & fines
- Press attention
- Subsequent years' reporting should become easier
- Further simplification?
- Further changes?
- A corporate push towards improved energy efficiency!



# How can integrated aM&T & CRC Reporting help?

- Utilise data from your existing energy management system for CRC EES reporting and compliance
- Produce accurate Footprint and Annual Reports quickly and easily
- Store supplier invoices, statements etc.
- Generate structural records for your Evidence Pack
- Maintain a full audit trail
- Monitor carbon allowance purchases
- Manage CRC submissions for multiple organisations
- Manage CRC across multiple sites from one central area



- ✓ Improve energy efficiency
- ✓ Reduce energy consumption
- ✓ Reduce energy costs
- ✓ Reduce carbon emissions



## CRC Reporting Module

**CRC Confirm Supplier Statements**

Select Meter	Lookup Key	Meter	Start Date	End Date	Consumption	Unit	Estimated	Overlap
Select Meter	OFF>MainElec	Main Elec	01.04.2010	31.12.2010	5786	kWh	No	▲
Select Meter	OFF>MainGas	Main Gas	01.04.2010	31.12.2010	3379	kWh	No	▲
Select Meter	WORK\WorkElec	Workshop Elec	01.04.2010	31.12.2010	10568	kWh	No	▲
Select Meter	WORK\WorkGas	Workshop Gas	01.04.2010	31.12.2010	5793	kWh	No	▲
Select Meter	WORK\WorkOil	Workshop Oil	01.04.2010	30.11.2010	1008	m3	No	▲
Select Meter	WORK\WorkCO2	Unknown Meter	01.12.2010	30.11.2010	0000	m3	No	▲

**CRC Footprint Report - Phase 1, Reporting Year 2010 - 2011**

Supply Type	Amount	Emissions Factor	Emissions (CO2)
Core Gas	15052 kWh	0.0001836	2.764
Grid Electricity	23364 kWh	0.000537	12.546
Medium Fuel Oil	3500 m3	3.223	11280.5

**CRC Source List - Phase 1, Reporting Year: 2010 - 2011**

Id	Profile Class	AMR	Meter Frequency	Measurement Unit	Is Core	In RML	In Footprint	CRC Data Source	In CRC	Supply	Emissions
			Hourly	kWh	✓	✓	✓	Supplier Statements	✓	8300	4.50543022
			Hourly	kWh	✓	✓	✓	Supplier Statements	✓	4419	0.81328411
			Hourly	kWh	✓	✓	✓	Supplier Statements	✓	14974	0.04337356
			Hourly	kWh	✓	✓	✓	Supplier Statements	✓	10633	1.85223877
			Monthly	m3	✓	✓	✓	Supplier Statements	✓	3500	11280.5
			Hourly		✓	✓	✓	Supplier Statements	✓	0	0

- Utilise data from your existing energy management system for CRC EES reporting and compliance
- Produce accurate Footprint and Annual Reports quickly and easily
- Generate records for your Evidence Pack
- Maintain a full audit trail
- Monitor carbon allowance purchases
- Manage CRC submissions for multiple organisations



# eSight eZdash Interactive Dashboards

The dashboard features a dark header with the eSightenergy logo. The main content area has a blue background with a white airplane flying through clouds. The text reads: "This year, we've saved 54 tonnes of carbon – the equivalent of flying 74,250 miles". Below this is a call to action: "Please feel free to scroll through and view our energy savings information!". On the right, there is a vertical sidebar with a clock, date (Tuesday 08 March 2011), weather for Cambridge (3°C), and a list of news items with RSS icons: "Huhne promises 'green jobs' boost", "Human origin 'in southern Africa'", "Lab-grown urethra 'world first'", "Returns of the panther", and "DECCgovuk".

**Fully customisable**

**Converts energy-saving data into tangible facts**

**Perfect for increasing participation in energy management projects**

**View energy information, weather, news and twitter feeds, videos and more**

Please feel free to scroll through and view our energy savings information!

## How was it for you?

- Industry experiences of CRC reporting?
- Your place in the league?

## What do you see in the future for CRC EES?

- Next year's reporting
- Energy efficiency measures
- Proposed simplifications
- The longer term





# eSight®

## Thank You



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