

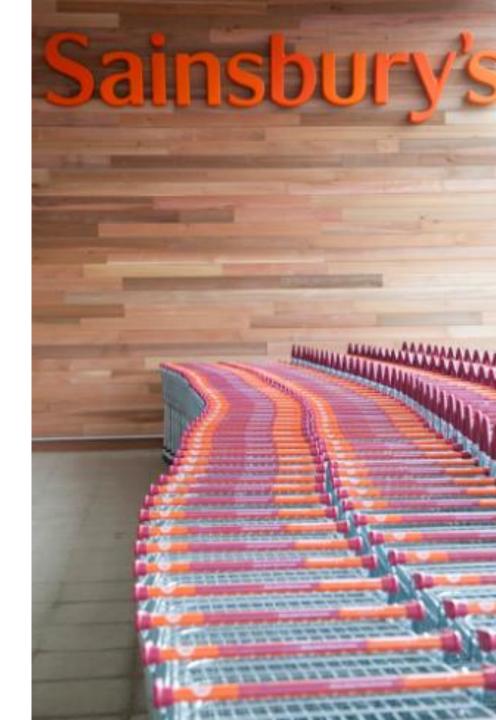
Sainsbury's 20x20 Sustainability Plan

Energy Efficiency & Store Generation Technologies



$\frac{20}{20}$ Key facts

- 1107 stores
 - 582 supermarkets
 - 525 convenience stores
- 150,000 colleagues
- 24 million customers





Sainsbury's 20x20 Sustainability Plan

Best for food and health



- We'll continue to reduce salt, saturated fat, fat and sugar in our own brand products and we will lead on providing clear nutritional information, enabling our customers to make informed choices.
- We'll double the sales of lighter alcohol wine and reduce the average alcohol content (ABV) of own brand wine and beer.

Sourcing with integrity



- 3 We'll source all of our key raw materials and commodities sustainably to an independent standard.
- Our own brand products won't contribute to global deforestation.
- All the fish we sell will be independently certifled as sustainable and we'll strengthen our position as the leading retailer for sustainable seafood.
- 6 Our sales of fairly traded products will hit £1 billion.
- We'll double the amount of British food we sell
- All our meat, poultry, eggs, game and dairy products will be sourced from suppliers who adhere to independent higher welfare standards.
- Our suppliers will also be leaders in meeting or exceeding our social and environmental standards.

Respect for our environment



- 10 We'll put all waste to positive use.
- We'll make sure that our own packaging has been reduced by a half compared to 2005
- 12 We'll have reduced our operational carbon emissions by 30 per cent absolute and 65 per cent relative, compared with 2005.
- Through robust water stewardship, we'll elisui that our supply chain ap is sustainable in areas or vulnerability.

Making a positive difference to our community



- 15 We'll have encouraged over 20 million children to enjoy physical activity in the decade.
- 16 We'll have donated over £400 million to charitable causes in the decade.

A great place to work



- We'll create 50,000 new job opportunities in the UK and at least half of our colleagues will have received externally accredited training.
- 20,000 of our colleagues will have reached 20 years of service at Sainsbury's.
- We'll increase the number of colleagues with shares in our business by 25 per cent.
- 20 We'll have provided 30,000 people from disadvantaged groups with work opportunities.

- We'll have own by carry of 51
- 12. We'll have reduced our operational carbon emissions by 30% absolute and 65% relative compared with 2005



Sainsbury's 20x20 Sustainability Plan

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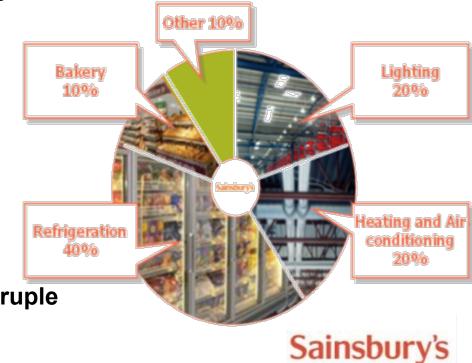
- Move from relative to ABSOLUTE decoupling sales growth from emissions
- Delivery Goals
- Continue to introduce proven & next generation renewable technologies in our new & existing stores
- Use renewable heat in majority of supermarket stores by 2030
- Convert all refrigeration systems to natural refrigerants (i.e. CO₂) by 2030





Sainsbury's energy – size of the prize

- Utilities up to 60% of store's controllable costs
- CRC places Sainsbury's 4th in terms of size of usage
- Retail accounts for 10+% of CRC scope
- Demand equivalent
 - 1 supermarket = 1,000 homes pa
 - 1 convenience store = 100 homes



 Our corporate energy bill is set to quadruple by 2020 unless action taken



RESET – 6th year completed March 2013



Since 2007/08 investment in RESET has generated energy savings

Operating 110 supermarkets annual usage of electrical power

RESET has finished but learnings continue...

Raised profile of energy
Changed ways of working
Positive Relationship with FM
Energy focus to every decision
Rethink and redesign

...drive for energy efficiency never stops..



Refrigeration















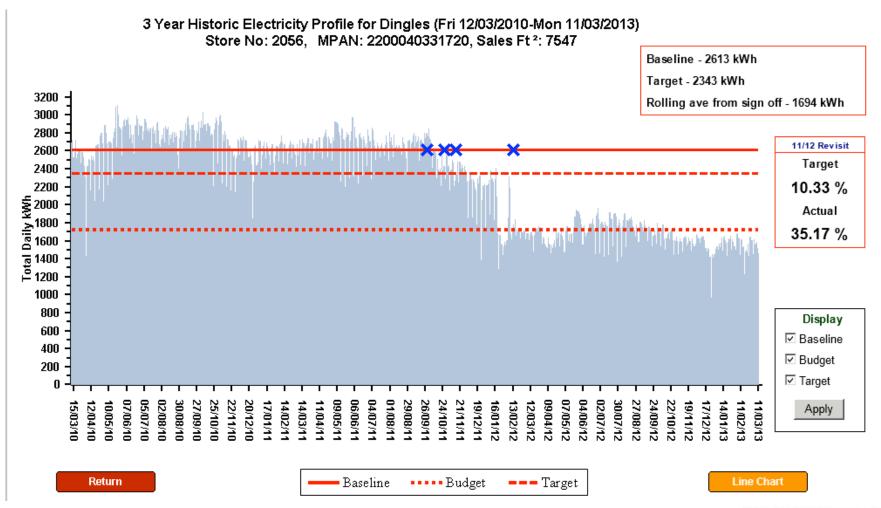


Heating, Ventilation and Controls











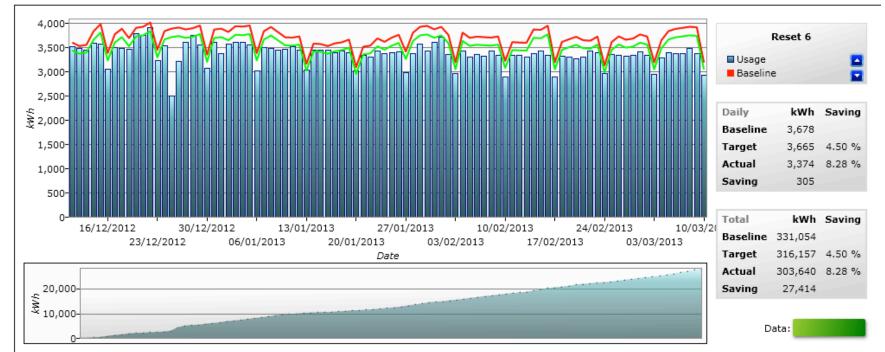
Beckenham (A0228)

Tue 11 Dec 2012 to Sun 10 Mar 2013

Project Profile

Three Months by Day

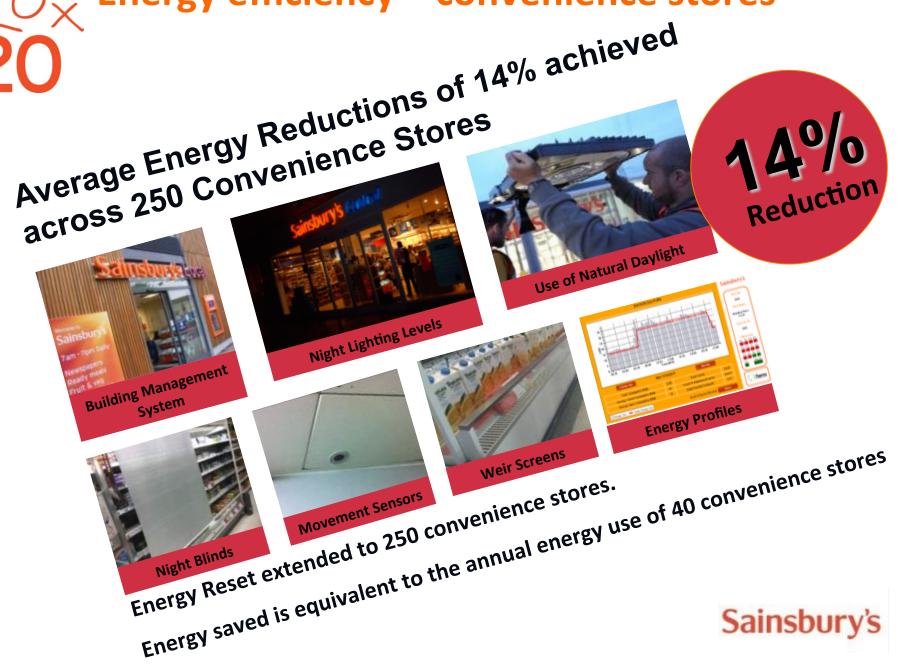








Energy efficiency – convenience stores



20×

Colleague engagement critical

Trading Day Energy Checklist



 Products are not overstocked onto air flow grills in fresh and frozen cabinets

When not in use......

- Close loading bay door
- Switch off Loading bay lights
- Switch off Plant room lights
- Close Cold room doors
- Switch off Food to go ovens
- Turn off Bakery ovens and Doughnut fryers
- Switch off Checkout conveyor belts
- Turn off Canteen Extract fans

Closedown Energy Checklist

Make Sure....

- Sales Lighting is at re-stocking level (Approx 1 in 3 fittings should be on)
- Customer car park lights are correctly timed to suit store trading hours
- Cold room doors are closed when not in use

Check the following is turned off.....

- Over door heaters (front/back door)
- All sales floor spotlights
- Refrigeration cabinet lights
- Bakery ovens & ventilation fans
- Food to go ovens
- Counter lighting/equipment
- Office equipment (PCs-not REPOS photocopiers, printers) & lighting
- Customer display televisions/radios/ lamps in GM
- Sainsbury's Signage
 - Air conditioning units in office

JSR/Concessions



Low carbon glide path 2008 Dartmouth 2009 Bath Southgate 2006 - Oakley 2010 Durham 2009 Gloucester Extension Quays

2009 High Wycombe 2012/13 new stores programme achieved 51% reduction energy vs. '05/06

2012/13 extensions programme achieved 54% reduction energy vs. '05/06



2011 Dawlish



2012/13





2012 Kings Lynn

Standard Specification Stores 80% of the initiatives trialled at Dartmouth are now rolled out to new stores and extensions.

2008

Standard Supermark Milton Keynes



2010 Crayford

2012 Trowbridge

Standard Supermarket 2013

2020









Switch to natural refrigerants in 150 stores so far has saved 83,000 tonnes CO2e



Renewables Solar PV generating power

- 189 Sainsbury's stores
- 82,000 solar PV modules
- 120,177m² rooftop PV area
- 19.3MWp installed PV capacity
- Reduction of circa 8,000 tonnes of CO₂ a year





Renewables

Biomass boilers generating heat & hot water





Renewables GSHP Innovation

12 installed with further 12 due in 2013/14



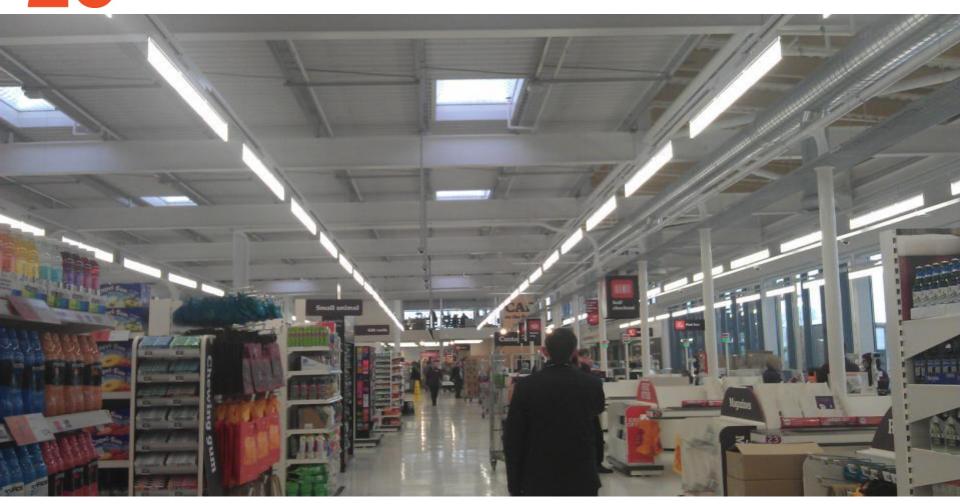
Crayford is a World 1st

- Pioneering geothermal renewable technology system.
- GSHP provides heating, hot water and cooling for the store.
- Growing sales not emissions



20× 20

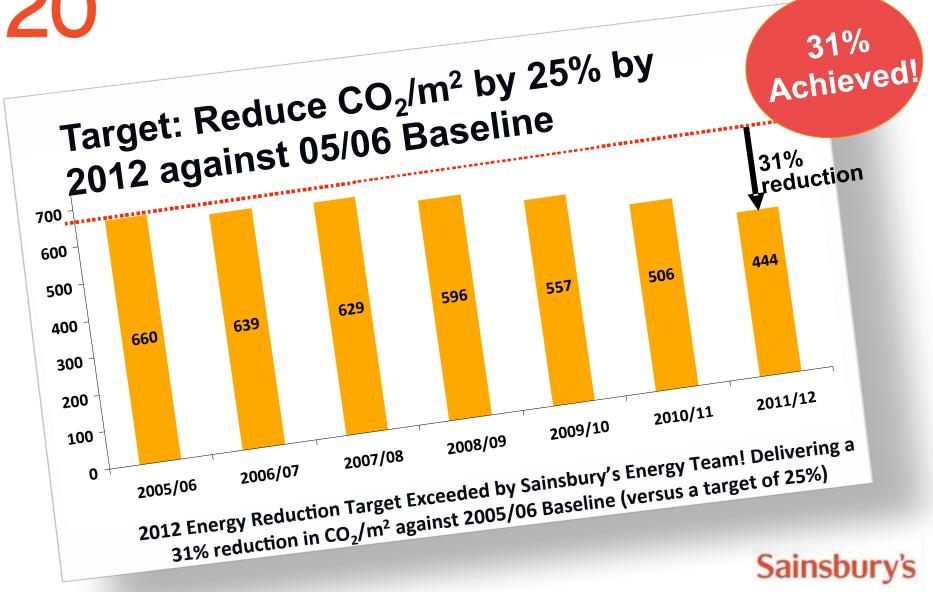
1st supermarket installation in the world of GE's latest LED lighting technology



Lumination™ Linear Suspended is delivering a 59% lighting energy saving for Leek store

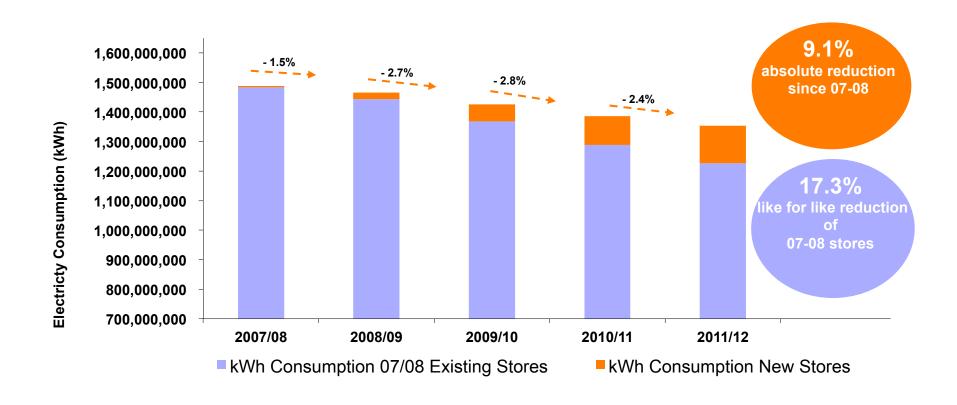


Recent relative energy efficiency target





Electricity savings





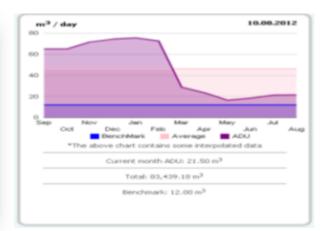
Water in our stores – target & external recognition

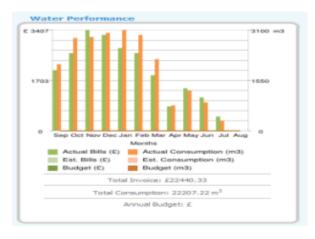


20× Water - Successes 20

Leaks















External recognition



2011
WINNER x 3 Gold – Hythe, ZFWTL, Water
HIGHLY COMMENDED x 2 Silver – Crayford, Bee Hotels



2011 WINNER

Dawlish, Sustainable Retail Building of the Year



2012 WINNER Sustainable Business of the Year Award





2011 WINNER – Energy category - Crayford 2012 WINNER - Energy category – Hythe





2011 WINNER - Low carbon / Heat Pump 2012 WINNER - Retail category





2011 WINNER _ Green retail initiative

2012 WINNER - Waste and resource Sainsbury S 2012 WINNER - Energy efficiency

