





Solihull Sustainability Visioning Group's

# **Touchwood Sustainability Breakfast Business Visit**

9th July 2014 'The Hub' Touchwood

# Sustainability at Lend Lease

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Defence

### What we do...

Retail

Project
Management &
Construction

Commercial

Investment Management Development

Infrastructure Development

Education

Retirement & Medical

Residential

Infrastructure

















# and produce 1 Billion tons of waste annually.



# Mount Sustainability....

**Business as a Force for Good** 

**Transformation** 

Restore, Heal

**The Triple Bottom Line** 

Health & Wellbeing

**Innovation** 

Innovate

Learn, embed, improve...

Save £

**Fundamentals** 

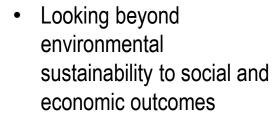
Resource efficiencies

Measure things for the first time

**Awareness** 



#### Sustainability framework at Lend Lease



 Reducing impact on the Environment, maximising future value

 Aligning the project with the values of its users, surrounding communities and enhancing productivity and well being

#### **ENVIRONMENT**

The resources we use will be recycled, responsible & re-usable.



3

ENERGY









#### SOCIAL

Every place we create will leave a positive social legacy.









#### **ECONOMIC**

We will future ready our business and the built environment.



GOVERNANCE & RESPONSIBLE INVESTMENT







THE TRIPLE
BOTTOM LINE









# TOUCHWOOD EST. 2001

Real World Steps to Sustainability



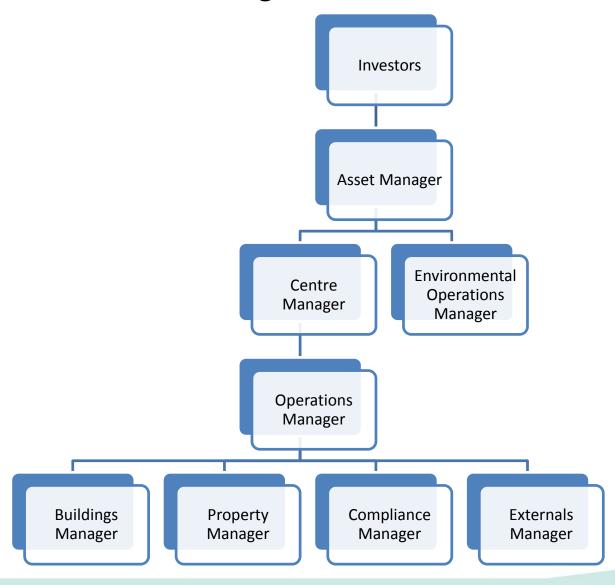
#### The Next Thirty Minutes...

- Sustainability Strands
- Real World Results
- Culture and Motivation
- Measurement
- Projects
- The Importance of Phasing
- Procurement

#### The Background of Touchwood

- Opened in 2001
- 650,000sqft centre
- 14.5 million footfall a year
- Over two million car trips a year
- ISO 14001 Accreditation
- Winner of a 'Green Apple' award
- Shortlisted for the 'Sceptres'
- 100% diversion from landfill
- Over 55% of waste is recycled

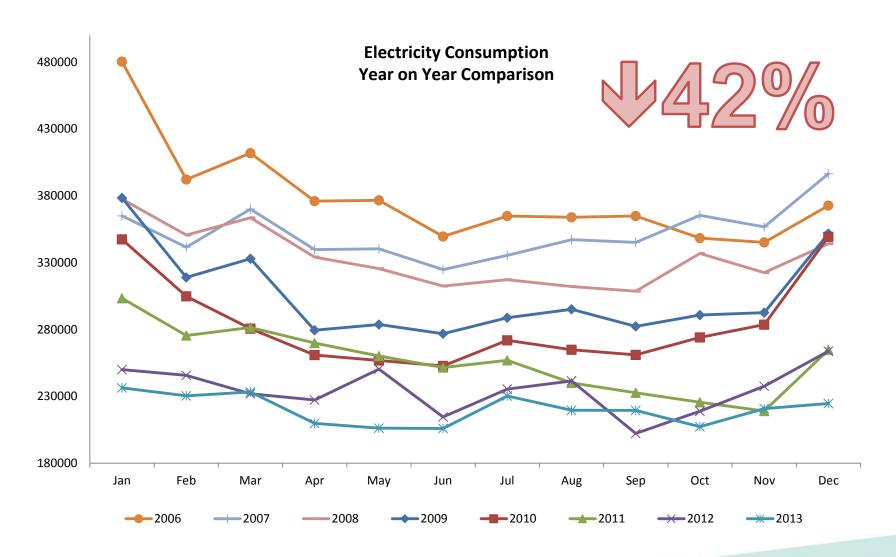
#### The Background of The Team



#### Sustainability Strands



#### Real World Results



#### Real World Results

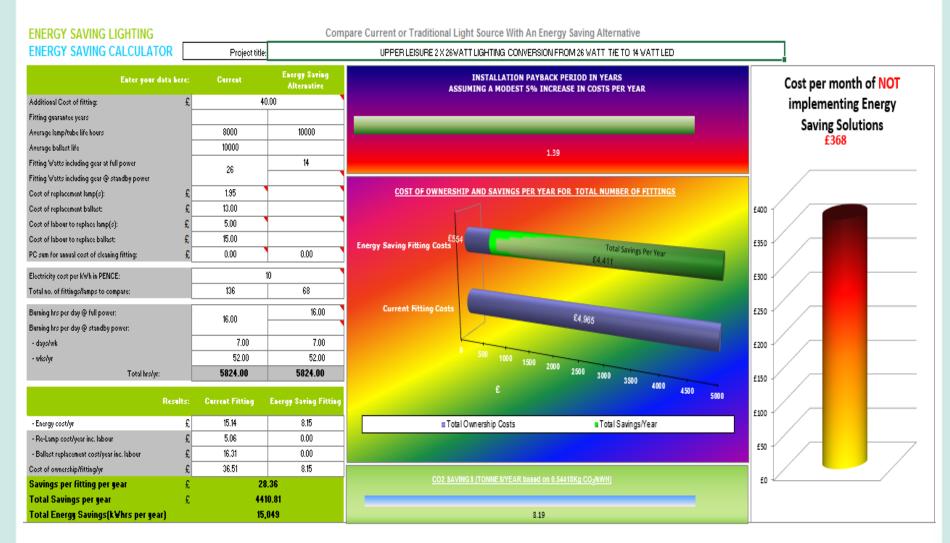


#### **Culture and Motivation**

- Top level management support is critical
- Breed a culture of sustainability
- Talk sustainability
- Encourage (not nominate) champions
- Give each team member an environmental objective
- Set high-level KPI's for the business
- Measure progress
- Reward success
- Shout about achievements



#### What gets measured....



#### What gets measured....

Name	<b>Color Copies</b>	<b>BW Copies</b>	<b>Color Prints</b>	<b>BW Prints</b>	Scans	Efaxes	TOTAL
FM	4858	13758	17436	23869	2994	471	63386
AM	225	3045	5743	23241	13062	20	45336
Steve Dawson	377	3160	1527	4275	404	93	9836
Andrea Gauntlett	0	1493	44	2784	5178	0	9499
Daxa Chauhan	168	417	2865	4643	1175	8	9276
Julie Poole	7	571	35	3767	4150	7	8537
Julie Thomas	986	852	1740	2622	283	53	6536
Sonia Kauser	40	373	574	4049	669	2	5707
Helen Brown	0	82	28	4167	1184	0	5461
Steve Calloway	272	369	1420	3190	1	0	5252
Sarah James	143	690	1585	2414	303	6	5141
Paul Bergman	8	164	3992	839	85	0	5088
Dave Powell	415	1061	1328	1988	160	19	4971
LucyBurnett	32	81	2301	2325	192	0	4931
Tom York	814	1728	413	1001	541	63	4560
Tammy Revell	11	310	58	2512	1094	5	3990
Jack Brassington	37	246	2450	394	125	0	3252
Dan Turner	203	240	1165	1027	597	0	3232

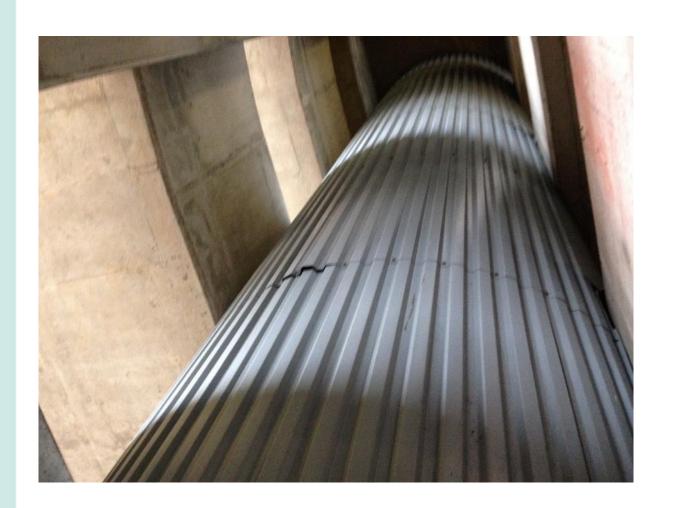
- Lighting Schemes
  - Lighting follows cleaning regime
  - Sensor lighting wherever possible
  - Best generation technology
  - Separate essential from decorative



Sensor Lighting Video



Air Blades



CO Sensors





**LIFTS** 



Water Feature

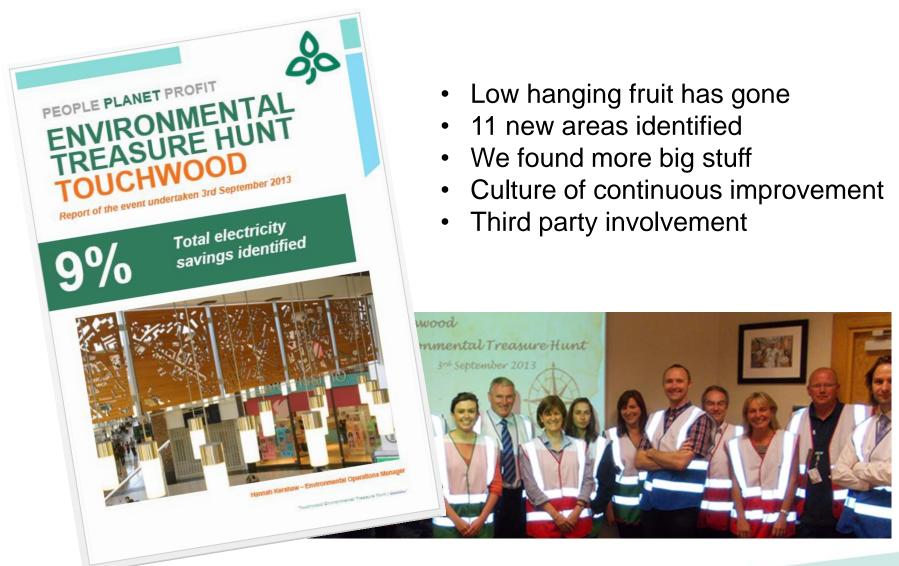




Air Conditioning

TOUCHWOOD

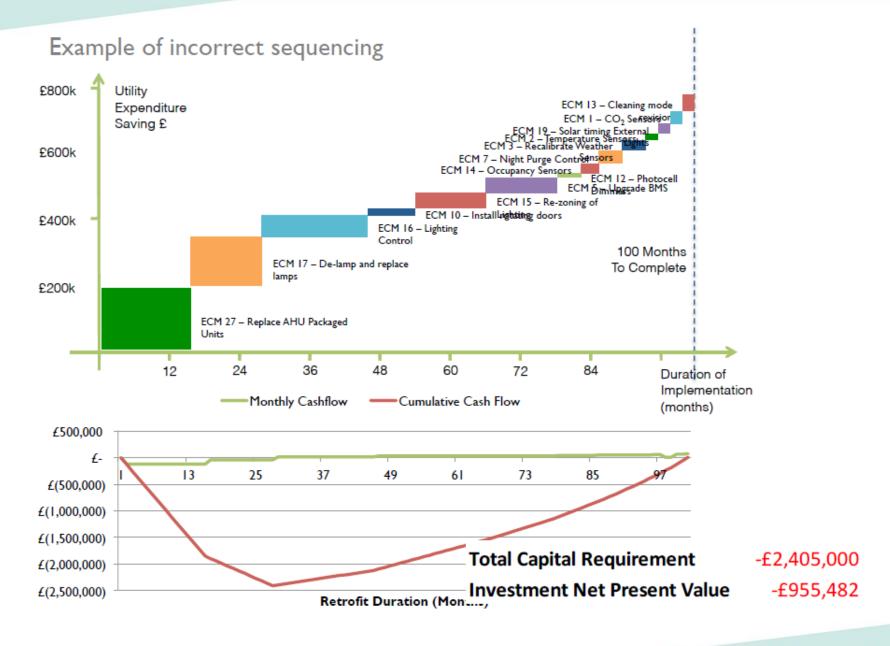
#### Lots of Little Stuff

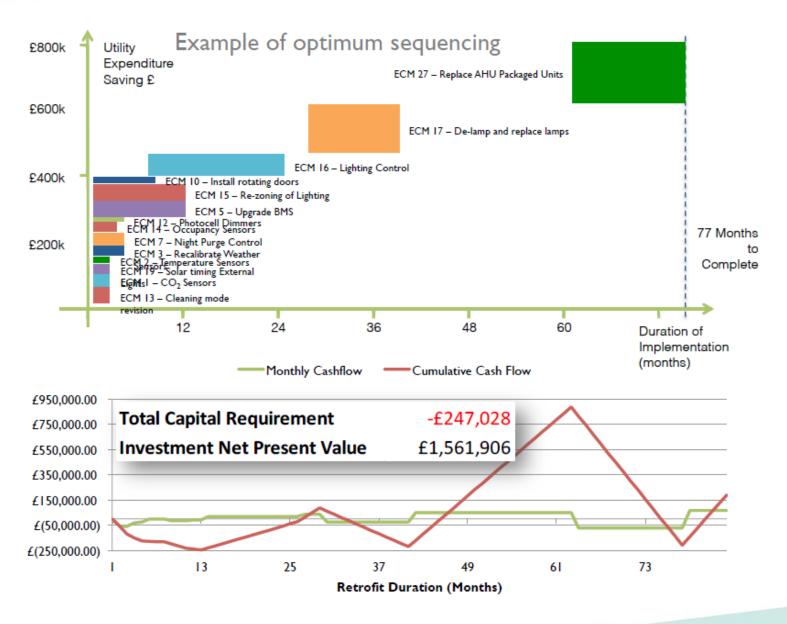


#### Phasing

- Financial Accounting
  - ROI is it at least cost neutral or the 'right thing to do'?
  - Payback Period an important consideration and is it accurate?
  - Timing of Works do things at the start of the year to maximise payback period.
- Correct sequencing
  - It's vital to program works to maximise savings and minimise payback period – do all the initiatives in the right order...







#### **Procurement**

• Lifecycle replacement

ROI purchase

Process change

Asset Enhancement



#### **Procurement**

#### 9. ENVIRONMENTAL SPECIFICATION (APPENDIX 8)

Summary/description of environment specification, such as operational and standby wattage etc.

Detailed bellow is the considerations which benefit our customer's efforts in reducing energy consumption. However, it should also be noted that Skidata consider Production, Logistics and Service and utilize processes or products which reduces the carbon footprint throughout the full life cycle management of its systems.

- Low voltage internal component architecture.
- Use of low power consumption microcontrollers and embedded CPUs within Skidata devices.
- Use of fan-free premium power supplies (pulse) with very high efficiency.
- Heating and fans are only needed outdoors; temperature thresholds for each device can be set individually for optimum performance.
- Power to the barrier motor is switched off completely when the barrier arm is in its end positions.
- Column display and attached readers can be switched off and then activated only when a vehicle is on the presence detection loop (display lighting, coder, long-range reader etc.).

	Device				
Status	Column	Easy.Cash	Credit.Cash	Power. CASH	
Standard Mode	30 watts	50 watts	40 watts	50 watts	
Heater in operation (outdoor use only)	180 watts	435 watts	420 watts	435 watts	

#### Sleep Mode Argument:

Sleep mode solutions have their disadvantages in the parking equipment market and Skidata has employed advanced technologies to insure that the standard or normal mode of operation will significantly outperform the competition.

Skidata standard mode: 50 Watts

Competition: 84.5 Watts

Over the life of this project, the 34.5W difference in power equates to 49 million watts of consumption...!

#### **SUMMARY**

Be Structured Think
Phasing

Breed a Culture

Measure Results

Keep Searching