

Imagine
Create

Chris Carolan – Lend Lease



- Carbon – operational
- Applied design and technology
- Commercial and time framework (office focus)
- Maintain design and product quality
- Perform for occupiers and owners

Carbon Performance – Base Building



| | The Bond | The Gauge |
|----------------------------------|-----------|-----------|
| Year completed | 2004 | 2008 |
| NLA sqm | 19,700 | 10,300 |
| Raw Emissions kgCO2/sqmNLA/yr | 51 | 41 |
| Raw Emissions Total kgCO2/yr | 1,107,000 | 371,000 |

Net Zero Carbon Scenario – The Gauge Base Building



| | The Gauge |
|--------------------------------------|-----------|
| Raw Emissions Total kgCO2/yr | 371,000 |
| Net Offset Solar Panel Area sqm | 1,450 |
| Net Offset Solar Panel Footprint sqm | 2,200 |
| Site Boundary Area sqm | 2,100 |
| Indicative Additional D&C Cost | 8-10% |

Where This Points Us



- Ongoing cost refinement in a D&C context
- Improvements in solar technology
- Application of gas or other on-site generation technologies
- Movement by authorities
- Pressure on occupier and investor technical standards
- Industry accepted definitions