

AUSTRALIAN  
LEGAL SECTOR

ALLIANCE

PROMOTING SUSTAINABILITY

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## Office Energy Forum



1. Jamie Ayers, Carbon & Energy Manager, Freshfields
2. Bronwyn Pott, Swaab Attorneys
3. Tom Nockolds, Norton Rose Australia
4. CitySwitch Green Office Program

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# Office Energy Forum



Jamie Ayers

Carbon & Energy Manager  
Freshfields Bruckhaus Deringer

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Bronwyn Pott

CEO, Swaab Attorneys  
Director, AusLSA

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## Swaab Energy Project

**BRONWYN POTT**  
CEO  
SWAAB ATTORNEYS

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## WHY ARE WE TALKING?

- Swaab achieved significant reductions in electricity usage in the 2010-2011 Environmental Consumption Report

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## WHAT DID WE DO? GREEN PROJECT

(Partner 'champion', IT manager, CEO, Senior Associate, PA) – mixed success on partner availability so team reduced to 2!

- > Identified modifiable emissions
- > Surveyed staff on willingness to participate
- > Essentially ignored the survey and reported to partners on need / potential savings
- > Named individual projects

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## WHAT DID WE DO? CHANGES IMPLEMENTED

- > Project 'Half Light'
- > Advised and trained staff on using lighting system
- > Reception turned off lights of cleared meeting rooms
- > Programmed all equipment with 'standby' function
- > Project 'Power Board'
- > Server virtualisation

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## OBSTACLES

- > Two light complaints, which lead to their lights being restored
- > Cooperation of cleaners
- > Changing habits – slow process

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## COSTS

- > 10 hours of IT assistant time required to remove all the second fluoro bulbs (\$200)
- > 'IKEA' switchable power board - \$5 per person (\$30 for trial)

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## OUTCOMES

- > We achieved a 25% reduction in electricity from the first quarter, resulting in significant \$ savings
- > Pilot group engaged in power board practice

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## WHERE TO FROM HERE?

- > Roll out of power boards across the firm
- > Replace reception lights with LED during fit out 'refresh'
- > More individual controls in offices during fit out 'refresh'

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Tom Nockolds  
Project Manager  
Norton Rose Australia

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## Electricity Consumption Desktop Computers

Tom Nockolds  
IT Project Manager  
Norton Rose Australia  
14/05/2012



## Past performance

### Lighting upgrades

- Install energy efficient lighting
  - Zone and sensor lighting
  - T5 upgrades

### Office refurbishments and moves

- New Brisbane office “One One One” Eagle Street
- Energy efficient office refurbishments

### IT Procurement

- Low energy consumption PCs

### PC Power Management

- Nightwatchman

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## Initiatives underway

### Electricity sub meters

- Electricity invoices only tell us how much...
- Sub meters tell us where and when
- Benefits:
  - Targeted electricity reduction initiatives
  - Measured outcomes



### City Switch

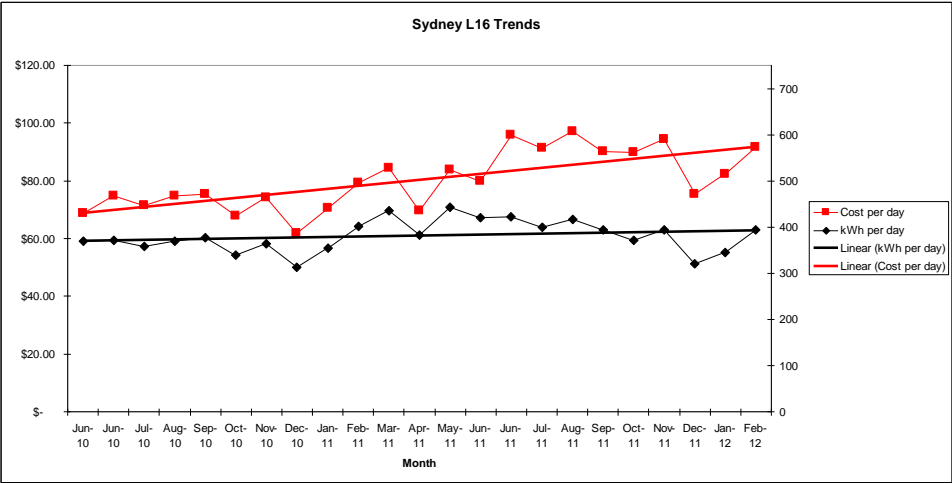
- NABERS ratings
- GreenPower – accredited renewable energy

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Rising electricity prices



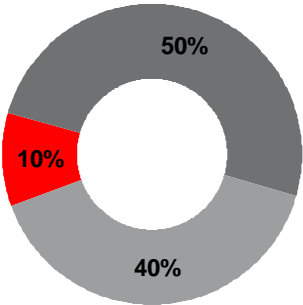
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PC Power in perspective

Appropriate effort and expectations need to be set when tackling PC energy consumption

- PC = computer + display
- PCs = 10% of total electricity
- Lighting is roughly 50%
- Air conditioning is roughly 25%



■ PC Power ■ Lighting ■ Other

\* Excludes data centres

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## Understanding PC power consumption

### Measurement

- PCs
- Screens
- Different models
- Operating hours
- Overall electricity consumption
  - Sub meters will help



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## PC Screen test

### LCD

- LCD with cold cathode fluorescent backlight (CCFL)
- 45 – 85 Watts



### 20 - 60 W reduction



### LED

- LCD with LED backlight
- 13 - 26 Watts



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New PC test

- 102 Watts  
– with screen



Total 60 W  
reduction



- 42 Watts  
– with screen

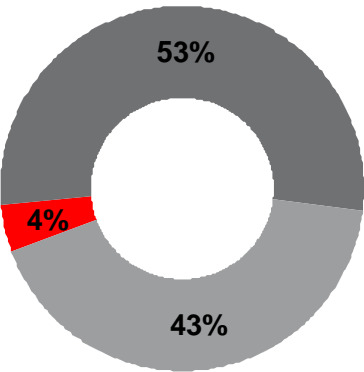


58% less per PC = 6% total saving

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New PC test



■ PC Power ■ Lighting ■ Other



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## Reducing PC power consumption

### PC power management

- A 'Must Do'
- 30% savings at NRA

### Procurement

- Small form factor or Laptops preferred
- LED not LCD screens
- Fleet management
  - Newer technology tends to be more energy efficient

### Behaviour / education

- Powering down PCs
- Bigger isn't always better
  - Dual screens & productivity
- Screen brightness

### What else?

- Terminal computing based on Citrix or Virtual Desktops?
- Dedication and effort

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## Our international practice



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## Australia



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City Switch Green Office

Sydney – Virginie Vernin

Melbourne – Paul Whelan

Brisbane – Peter Main

Perth – Margaret Collingwood

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