

# Smarter Resources Smarter Business

## Energy Efficient Office Buildings program

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Sustainability Victoria



# Smarter Resources Smarter Business

\$14 million over five years to assist a variety of industry sectors to use resources more efficiently

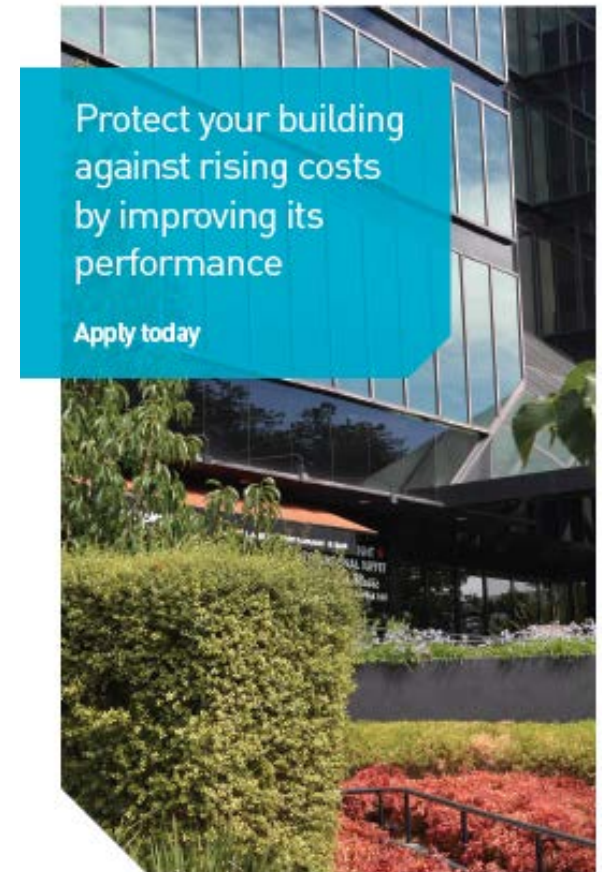
- > **Energy and materials**
- > **Recycling**
- > **Energy Efficient Office Buildings**

# Smarter Resources Smarter Business

## Energy Efficient Office Buildings program

\$3.59 million, three year program

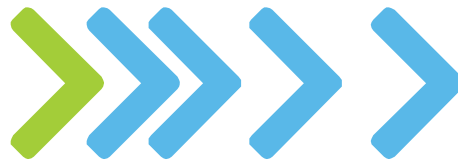
- > Grants of up to \$150,000 are available per building
- > Focus on building tuning
- > Targeting mid-tier office buildings
- > Suburban, regional buildings
- > Turn-key energy efficiency improvement



# TYPES OF UPGRADE

## Shallow upgrade

- Building tuning
- Lighting
- 'low hanging fruit'



## Deep upgrade

- Major plant and equipment
- Building envelope
- 'Repositioning'



# Tuning Results: actual figures

Group	Reference kWh/Cons.D	Report kWh/Cons.D	Change %	
BB Total	981,561	734,334	-25.19	▼
BB HVAC Total	690,958	521,140	-24.58	▼
Lifts Total	36,991	25,136	-32.05	▼
BB L&P	148,221	89,946	-39.32	▼
Car Park	51,078	45,819	-10.3	▼
BB Gas Total	53,104	* 45,111	-15.05	▼
BB Water Total	4,155	* 4,167	0.29	▲

Temperature data	*Period	^Period	#Period
Mean Max °C	20.2	19.6	20.4
Mean Min °C	10.3	10.4	10.3
Consumption days	284.5	285.5	284.5

\* 8-Jun-12 To 8-Jun-13

^ 8-Jul-11 To 8-Jul-12

# 8-Jul-12 To 8-Jul-13



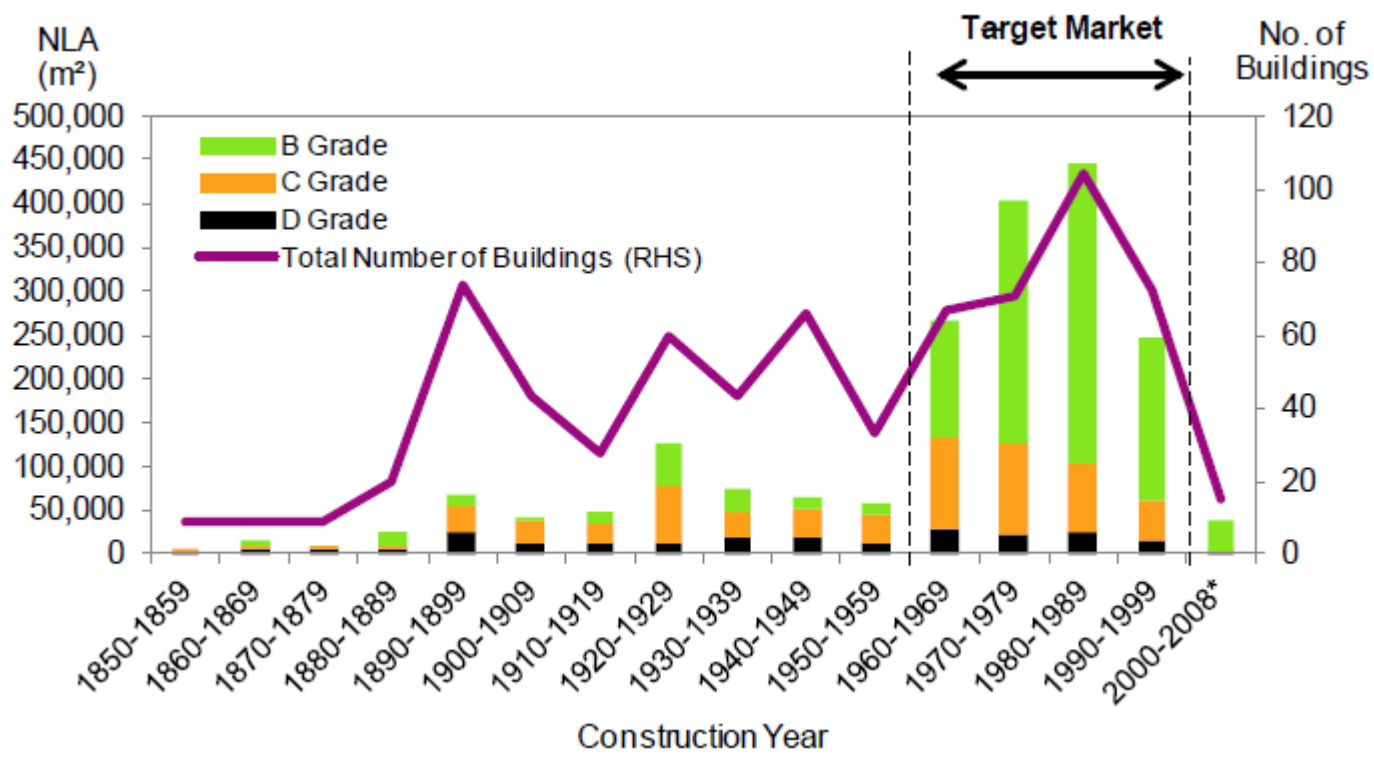
# The Next Wave



Retrofitting  
Victoria's  
office  
buildings



# KEY FINDINGS

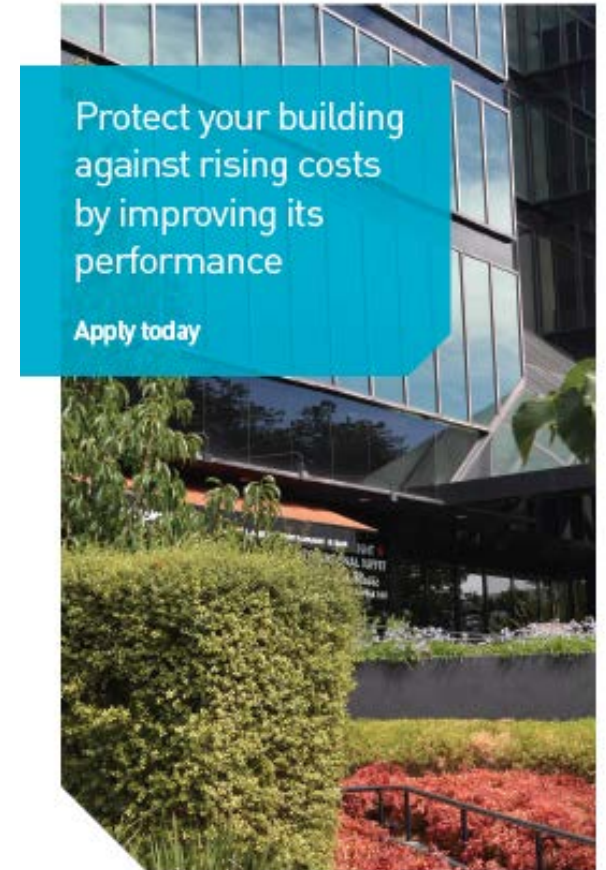


# Smarter Resources Smarter Business

Energy Efficient Office Buildings program

## Three simple stages:

1. Opportunities Analysis
2. Building tuning
3. Monitoring





# Smarter Resources Smarter Business

## Energy Efficient Office Buildings program

### 1. Opportunities Analysis

- Level 2 energy audit
- NABERS assessment
- Analysis of major cap works with energy efficiency improvements
- Capital works forecast
- Analysis of low emissions energy/renewables
- Analysis of building fabric upgrades
- Dynamic thermal modelling



# Smarter Resources Smarter Business

## Energy Efficient Office Buildings program

### 1. Opportunities Analysis

### 2. **Building tuning**

- HVAC controls tuning
- Lighting controls tuning
- Switches, sensors, controllers
- Installation of metering/sub-metering
- Retro-commissioning activities
- Updated schematics/relevant drawings



Protect your building  
against rising costs  
by improving its  
performance

Apply today

# Smarter Resources Smarter Business

## Energy Efficient Office Buildings program

1. Opportunities Analysis
2. Building tuning
- 3. Monitoring**

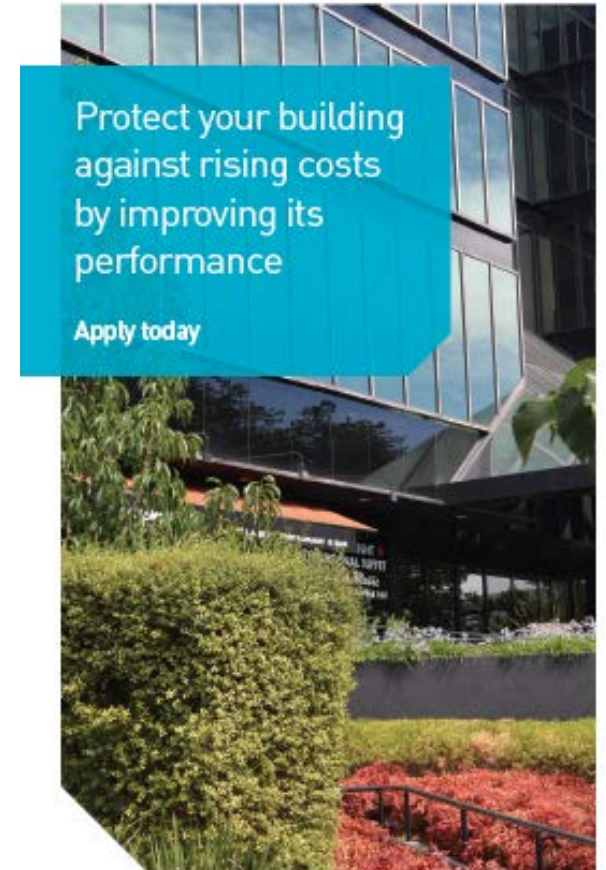
Involves implementing metering and monitoring to enable an evaluation of building performance for the 12 month period following building tuning



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## Energy Efficient Office Buildings program

- > Matched funding of up to **\$150,000** is available to eligible buildings
- > SV will fund **50%** of eligible project costs
- > Funding is limited, so apply soon
- > Project works must be delivered by a member of SV's panel of **Service Providers**



# More information

To find out if you are eligible or to apply  
contact Sustainability Victoria:

Email:

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Phone:

1300 363 744

Visit:

[www.sustainability.vic.gov.au/eeob](http://www.sustainability.vic.gov.au/eeob)