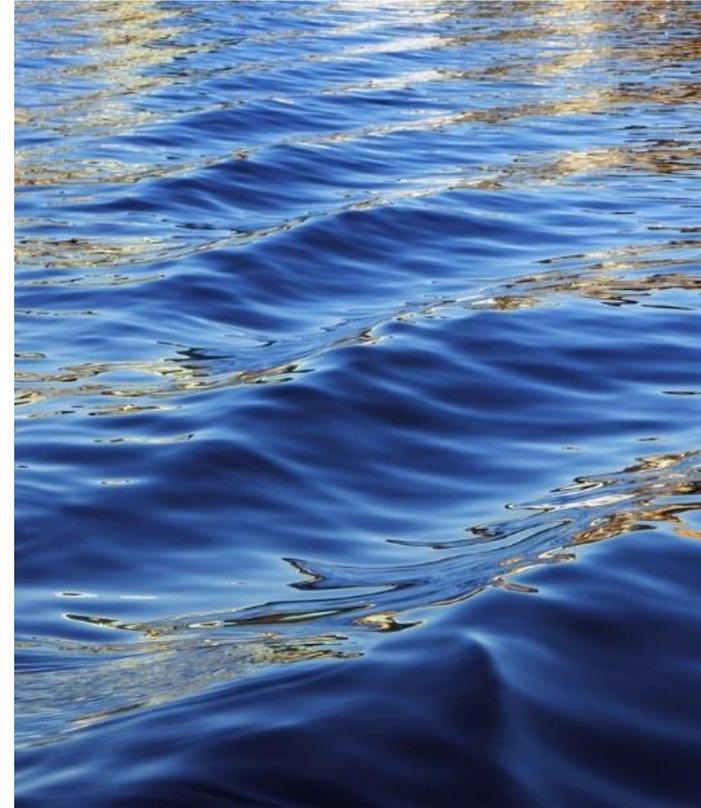




# Belgravia Leisure- Sustainability and Climate Change

Alexia Morgan – Group Manager, Business Improvement  
Belgravia Health and Leisure Group



# Climate Change

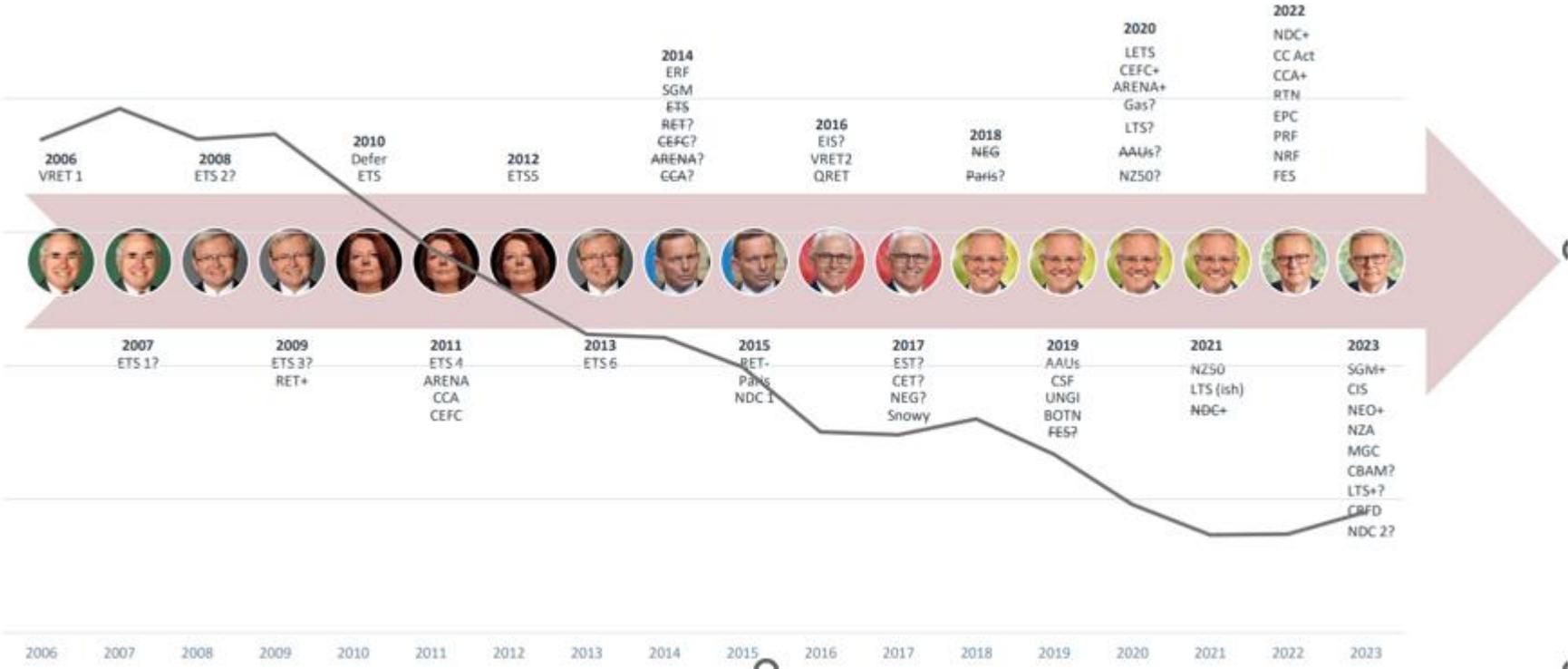
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- Next 25 years – Climate Change is the most important challenge facing humanity
- Change (policy and business) is coming FAST
- Paris Climate Agreement to limit global warming to 1.5 degrees, net zero by 2050. Signatories committed to Nationally Determined Contribution (NDC's)
- Mandatory GHG emissions reporting is coming – GHG emissions, big business first

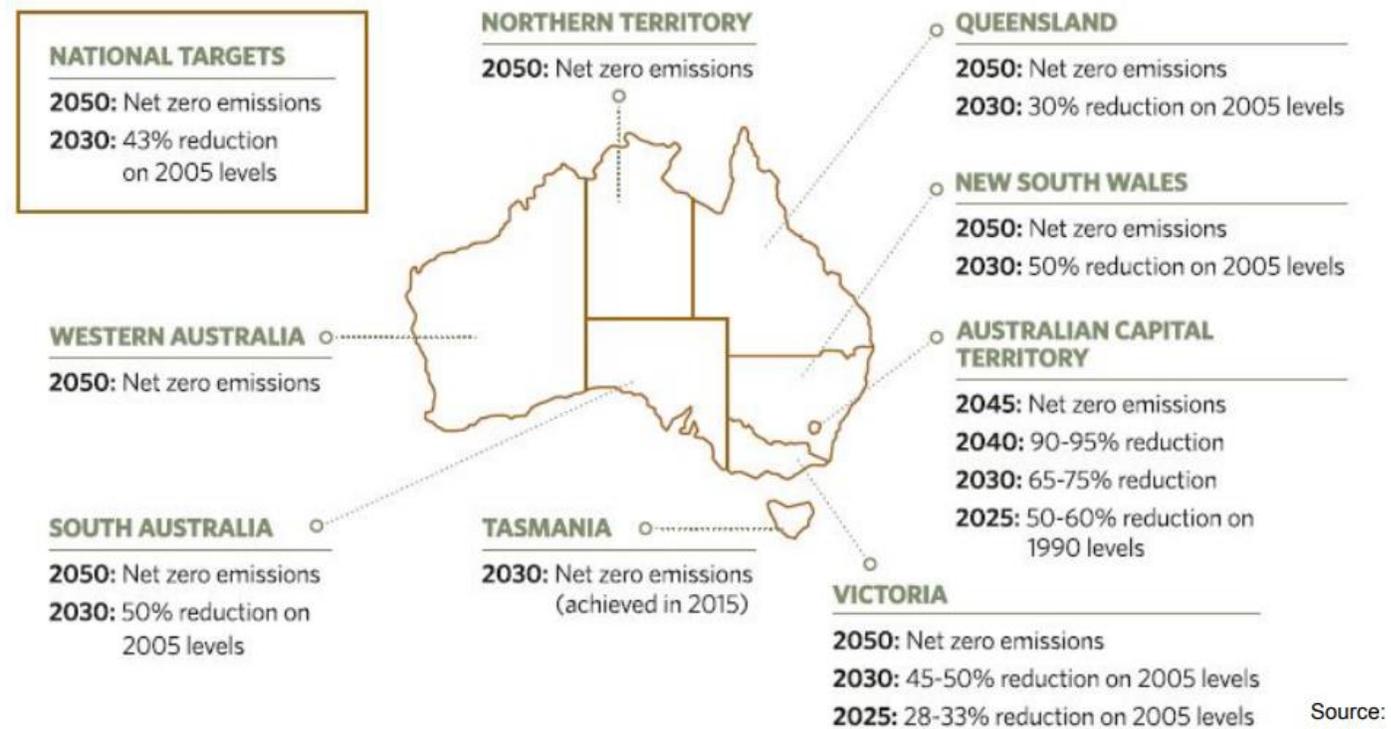


## Paris Climate Agreement

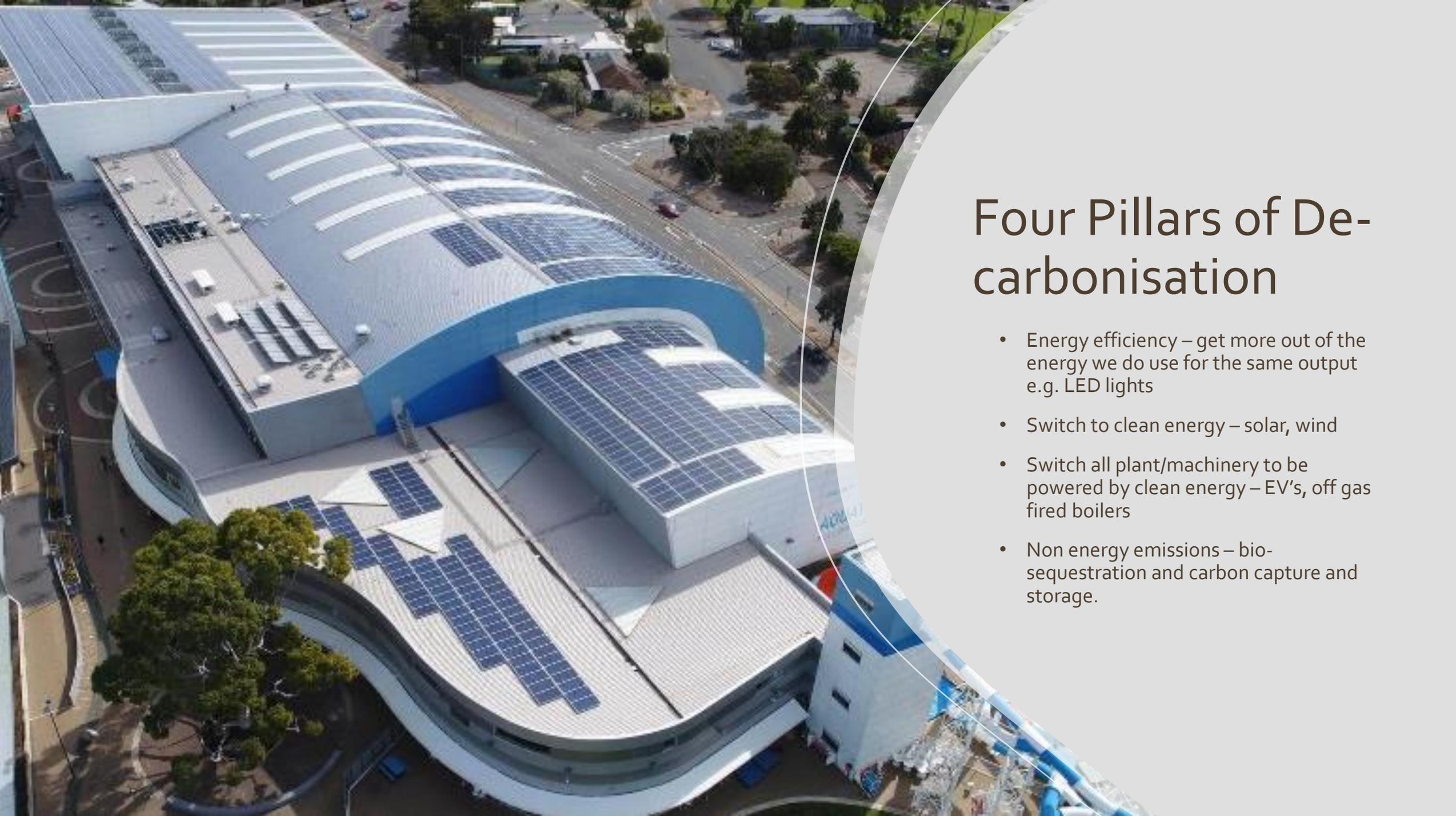
# Rate of policy change in Australia



# Australia and State emissions targets



\*\* Note - Vic Government has agreed to a new target of 75-80% reduction on baseline 2005 emission levels by 2035.



# Four Pillars of De-carbonisation

- Energy efficiency – get more out of the energy we do use for the same output e.g. LED lights
- Switch to clean energy – solar, wind
- Switch all plant/machinery to be powered by clean energy – EV's, off gas fired boilers
- Non energy emissions – bio-sequestration and carbon capture and storage.



# Belgravia Leisure - Ascot Vale Leisure Centre

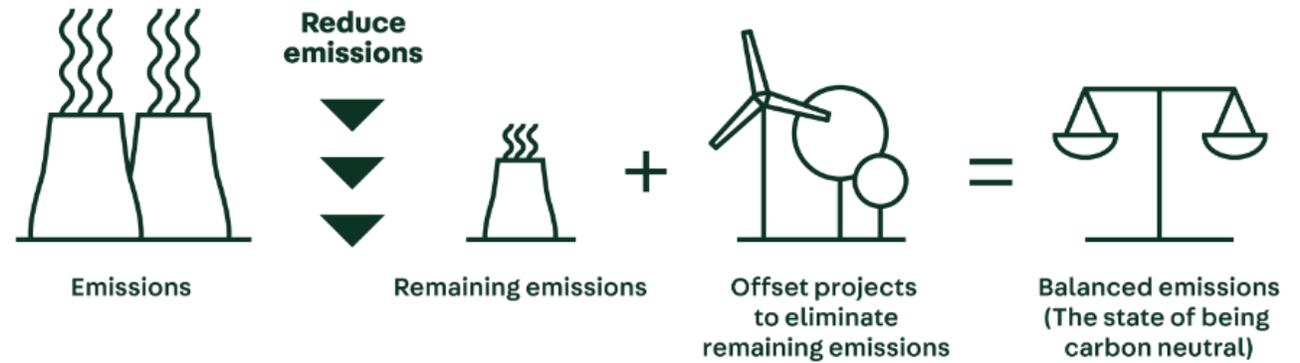
- First Leisure Centre in Australia to be certified Carbon Neutral through Climate Active under the Services standard.
- Certified for FY 21 Emissions 2127.02 tonnes
- Recertified in FY22 Emissions 1153.09 tonnes (renewable electricity)
- Currently reviewing FY 23 Emissions 1319.81 tonnes (business growth)
- Future plans – gas boilers to be replaced by electric heat pumps

# Carbon Neutral

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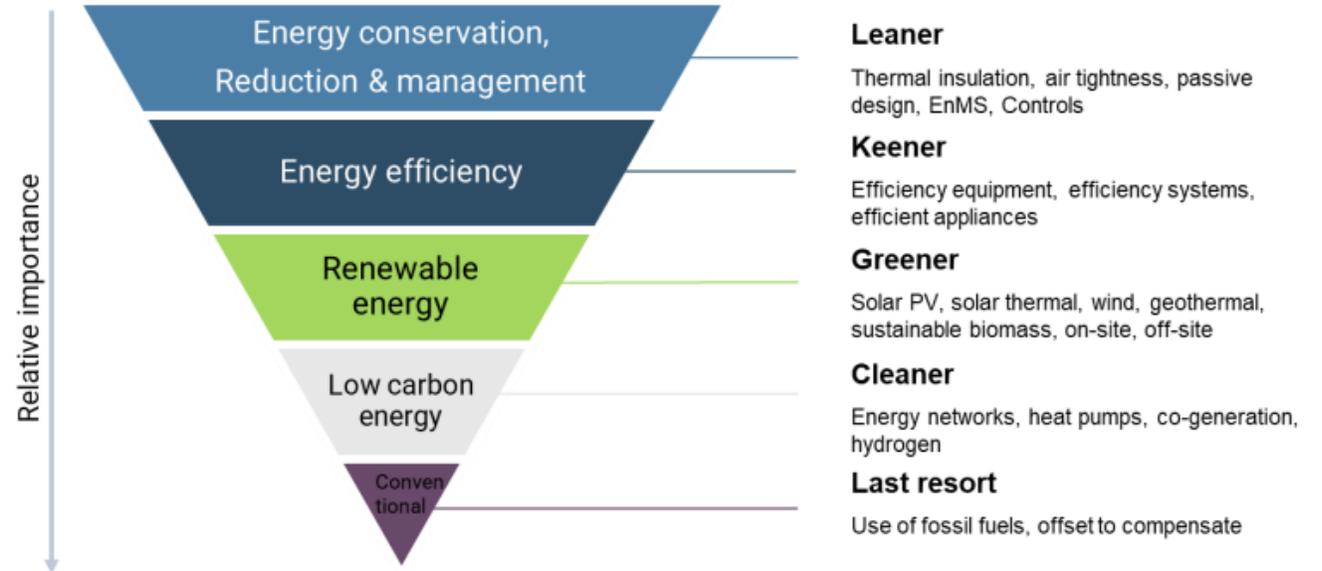
- Carbon neutral is not zero emissions
- Carbon neutral requires offsets

## What does it mean to be carbon neutral.

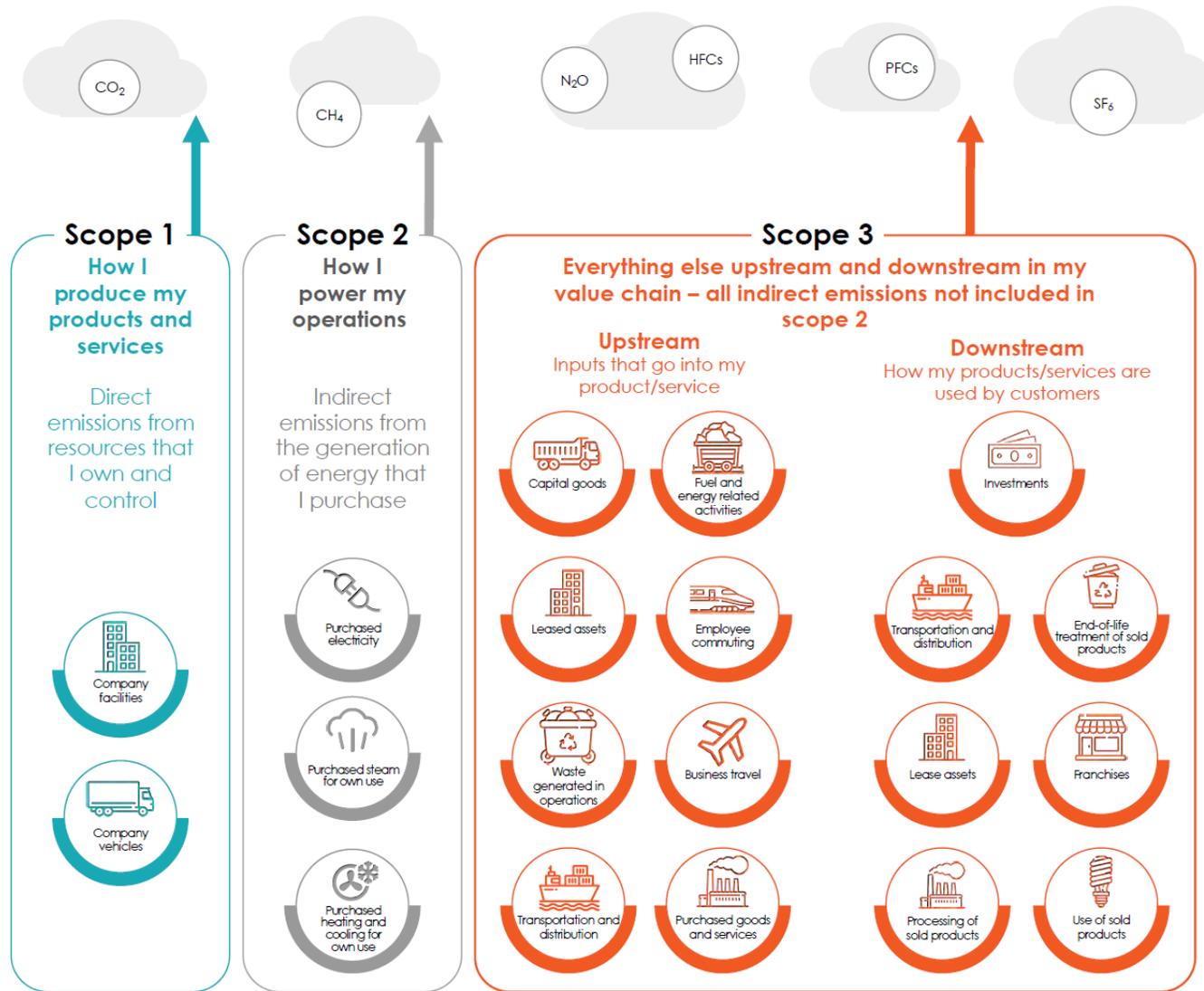


# The process

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# GHG Emissions



# AVLC - Emissions reduction strategy (GHG 50% reduction)

## Moonee Valley Council initiatives

- LED lights
- BMS fine tuning and monitoring, humidity levels, Temperature
- Leak sealing of pool hall and building
- Solar extension, additional 200kWh
- Renewable electricity purchase

## Belgravia Leisure initiatives (some)

- Backwashing – gas, water, electricity, chemicals, time.
- Paper reduction
- Cleaning methods and cleaning chemicals
- Staff activities – The Green Team
- Café activities
- Energy saving practices – lights, cardio equipment, computers
- Waste and recycling
- Procurement
- Travel



# Electricity

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- BMS – HVAC, set temperature, humidity
- Lights – sensor, LED, zoned
- Computers, printers
- Portable and personal – fans, heaters, music, chargers
- Cardio equipment
- Sauna, Steam, Spa
- 24/7 zip boilers
- Hot water services
- **Electrification**



# Gas

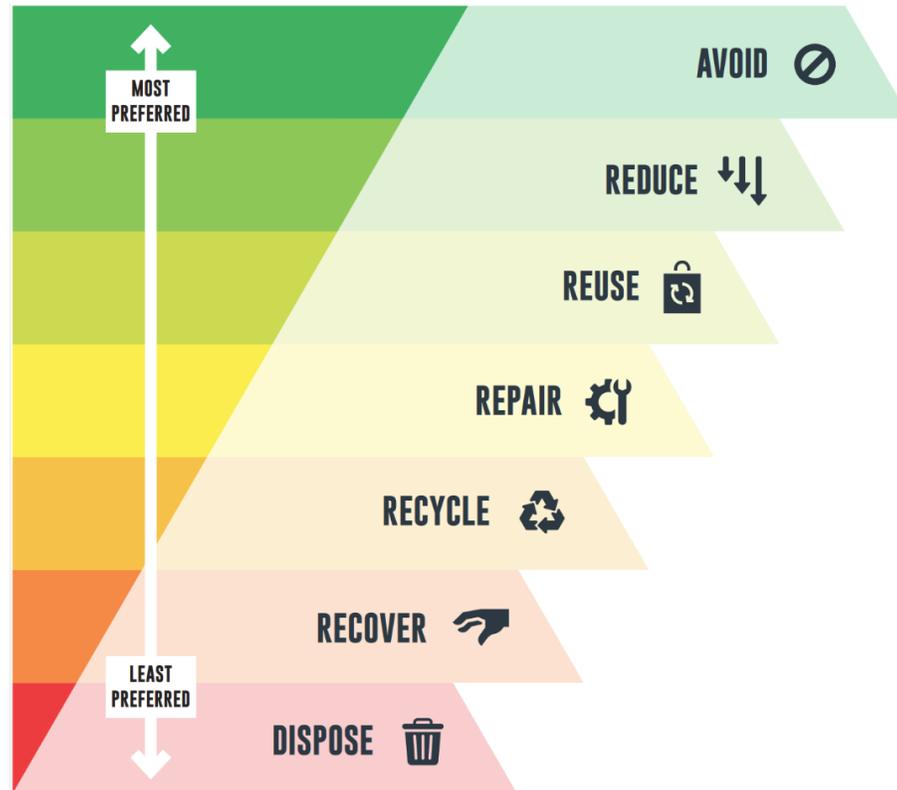
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- Hot water services
- Boilers
- Backwashing
- Humidity
- Pool blankets
- Gas cooking, kiosk, cafe



# Waste

## Hierarchy of control



## Supported by policy

- Procurement – policy and actions
- Operations – bins, recycling, signage
- Processes
- Equipment
- Education – how difficult is getting sorting of recycling correct?

# Water

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- Backwashing
- Pool blankets (Humidity and Temp)
- Shower heads
- Push button Taps
- Dual flush toilets
- Indigenous gardens
- Rain water harvesting
- Cleaning methods – low water use



## Leisure Venues

Biggest users of gas, water and electricity – typical leisure building.

Sports fields – lights, water

All involved and engaged



# Our staff

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- Embed sustainability like safety, standing agenda item
- Green Team
- KPI's and data measurement





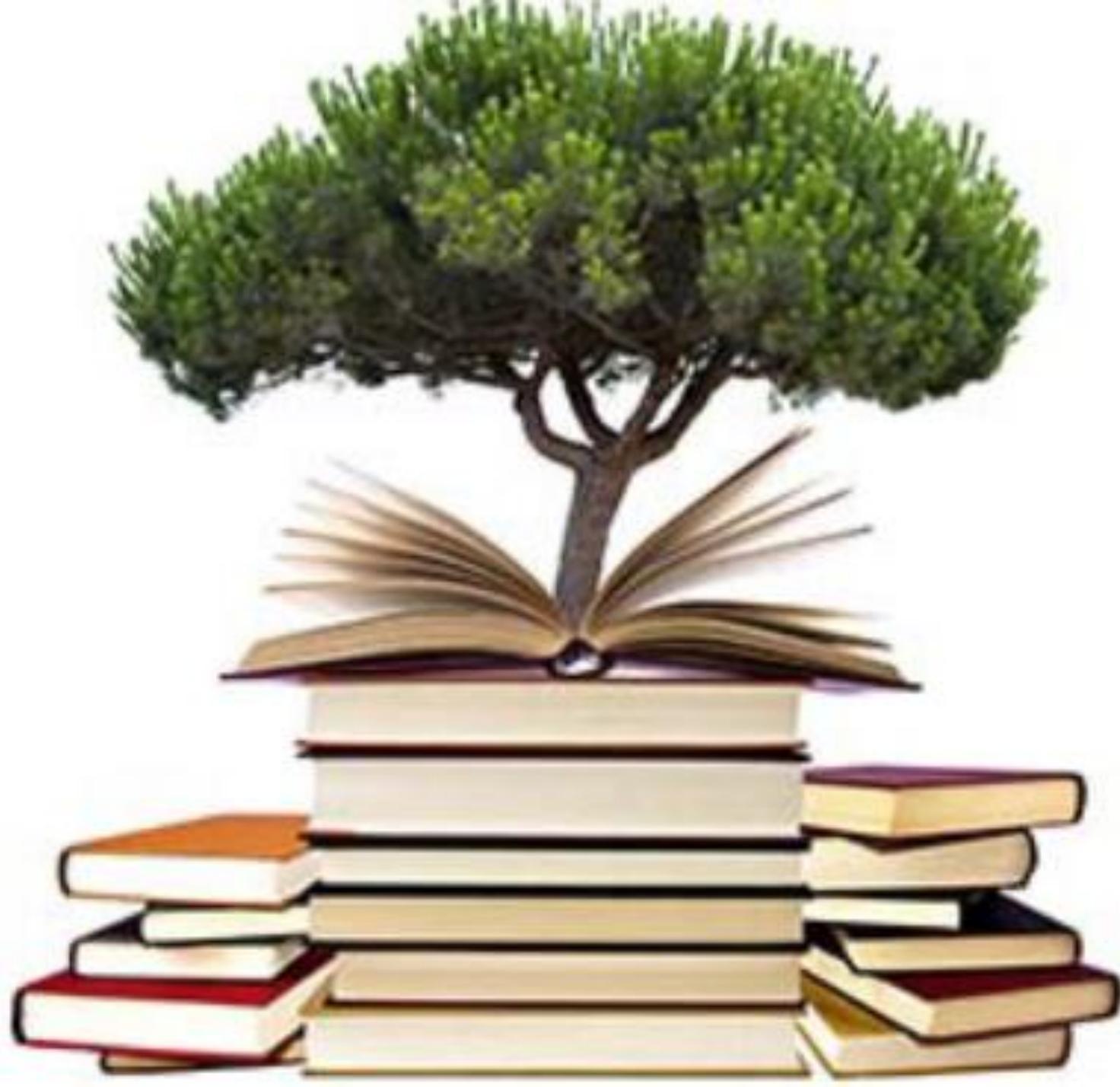
# Users

- Clubs
- Students
- General public
- University population
- Events and bookings – sustainability plans

An aerial photograph of a large, modern industrial building with a flat roof. The roof is covered with a large array of solar panels, arranged in several long, parallel rows. The building has a grey facade and large windows. The surrounding area includes green grass, trees, and a paved parking lot. A blue horizontal line is visible in the top left corner of the white circular area.

## Facility Owners

- Design – energy saving design will pay back for ever
- Retrofit – more expensive
- Solar – All roofs solar
- Collaboration



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## Enabling Actions

- Alliances, networks, and engagement activities
- Governance and internal practices
- Climate strategies and transition plans
- Value chain engagement
- Experimentation, learning and research

# Questions

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# Contact Information

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