



PROJECT BRIEFING

MET Waste Management Pty Ltd – Proposed Processed Engineered Feedstock Production Facility

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<https://www.jacksonenvironment.com.au/>

About the location

- ❖ 134 Carnarvon St – leased by MET Recycling for operation of a construction waste recycling facility; a portion of the site will be re-purposed for the new facility.
- ❖ The site was previously the former Auburn Landfill, now capped, making the site suitable for ongoing waste management activities.
- ❖ Silverwater Industrial Estate is zoned E4 General Industrial. This zoning allows for the operation of waste management facilities with consent.
- ❖ Neighbouring businesses include manufacturers, storage warehouses, automotive depots and commercial office spaces.
- ❖ The nearest residential area to the site is approximately 450m to the east, and the closest sensitive receptor is 110m located to the east of the site.



Proposal description

- Receive, sort and process up to 450,000 tonnes per year of red bin waste from offices, businesses and residences.
- Construction of an 18.5m high, 11,792m² warehouse building to fully contain all waste processing operations, constructed of neutral Colorbond® material and noise insulation.
- Specialised raft construction of the warehouse with below slab gas collection and extraction network to protect the capped landfill site.
- Weighbridge at entry and exit points to track all waste movements.
- Dedicated waste tipping and decontamination area prior to waste processing.
- Technologically advanced PEF Production plant will automatically sort recyclables from the waste stream for recovery. Remaining waste is baled, compressed and wrapped in preparation for odour-sealed road transport for re-use.



450,000

Tonnes of red bin waste
per year that will be
sorted and diverted from
landfill

30+

New permanent positions
to be created for 24/7
operations

Proposal description

- Separate staff and contractor combined entrance and exit from Carnarvon Street, with parking for 23 passenger vehicles.
- Separate truck access from Carnarvon Street directly into the PEF Production Facility.
- Dedicated truck exit driveway to Newton Street North to ensure all heavy vehicles access the Site and the road network safely in a forward direction.
- Advanced fire detection systems and full fire sprinklers and bunding.
- Large solar array and 2.3MW on-site battery to provide renewable power to the operation.
- Water tanks for the collection and reuse of rainwater.

66%

Total rate of overall recycling in NSW for 2023-24 (NSW EPA).

2.53 tonnes

Of waste generated per capita on average per year (NSW EPA).

Waste being diverted from landfill benefits the environment and the Sydney community

By 2030 landfills in the Sydney area will be full!

Without new waste solutions, waste will need to be transported hundreds of kilometres to landfills in regional NSW for disposal, raising costs and increasing transportation emissions.

Sustainability Features

- ❦ All operations including tipping, storage, processing, loading and truck waiting take place in fully enclosed warehouse.
- ❦ Fast acting roller doors with air curtains for truck entry and exit to prevent odour release from the warehouse.
- ❦ Warehouse operates under negative pressure to further prevent odour release during roller door operation.
- ❦ Leachate collection and drainage system to support the Waste Tipping, Inspection, Decontamination and Storage Area, with odour sealed tanks for temporary storage before pump out and removal for treatment off site.
- ❦ Wet scrubbers and activated charcoal filtration of all air leaving the warehouse.
- ❦ Fully bunded warehouse to prevent leachate or contaminated water from leaving the site.
- ❦ Stormwater runoff to be intercepted and managed in accordance with Council standards.

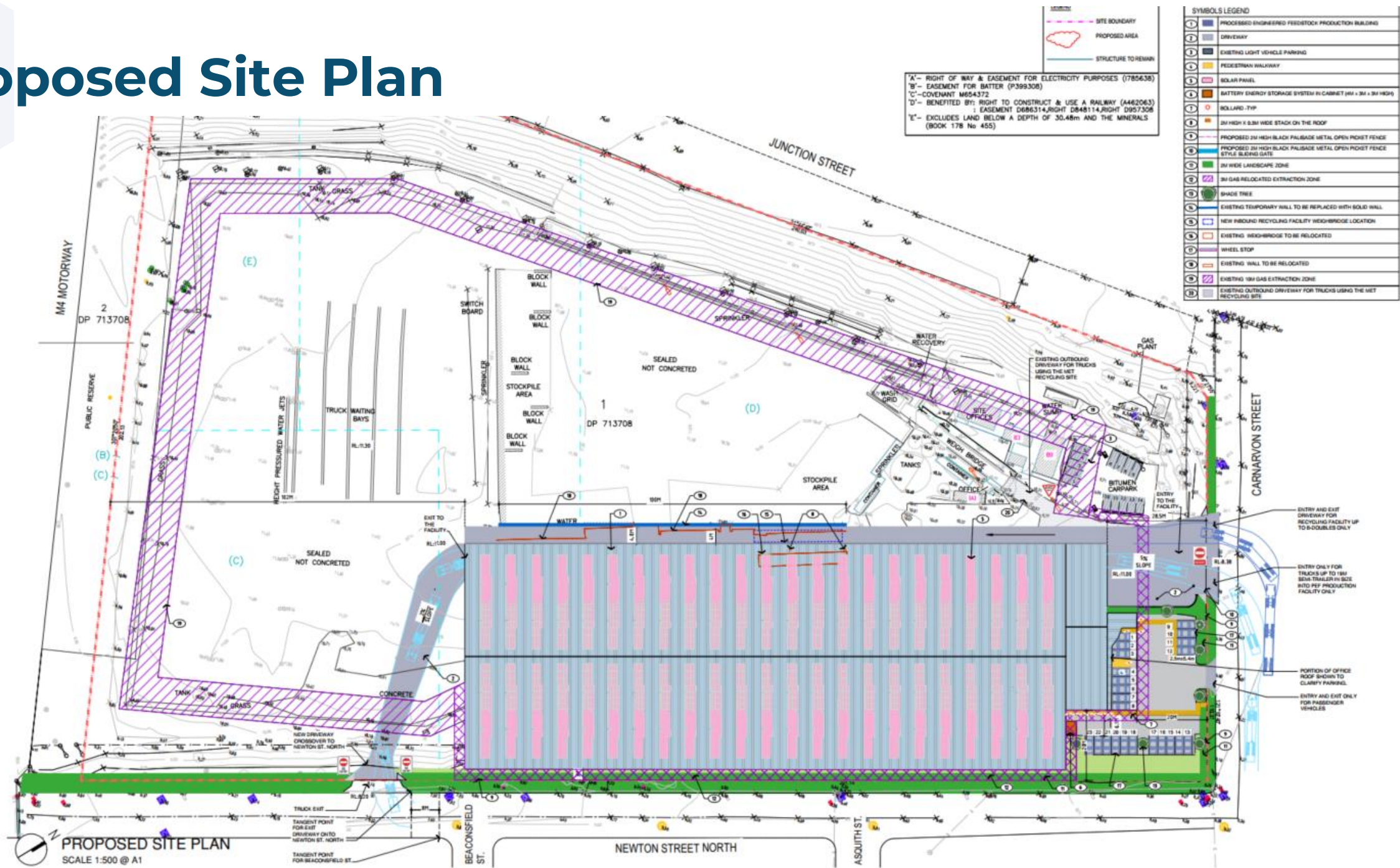


Planning and assessment process



- ✻ The project is classified as a State Significant Development under *State Environmental Planning Policy (Planning Systems) 2021* as it will accept more than 100,000 tonnes per year of waste.
- ✻ This means the project requires an Environmental Impact Statement (EIS) with the assessment requirements provided by the Secretary of the Department of Planning, Housing and Infrastructure (DPHI).
- ✻ The Minister for Planning will assess and determine the development application.
- ✻ The facility will require an Environment Protection License under the *Protection of the Environment Operations Act 1997* for resource recovery, waste processing (non-thermal treatment) and waste storage. This will be determined by NSW EPA.

Proposed Site Plan

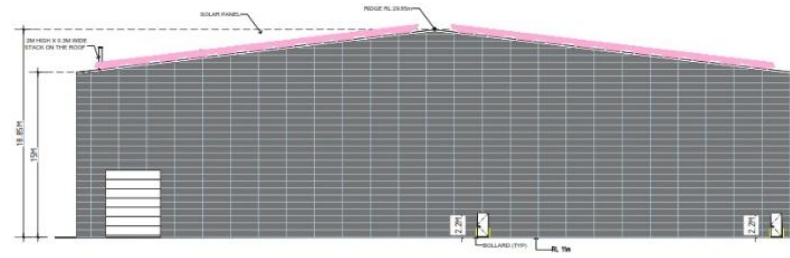


Pro

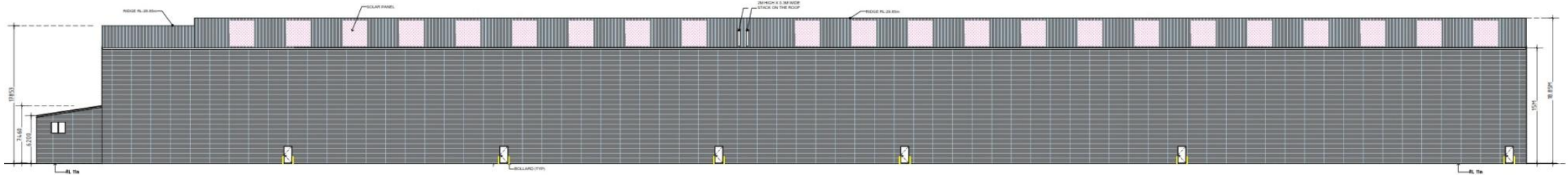
Proposed Elevations



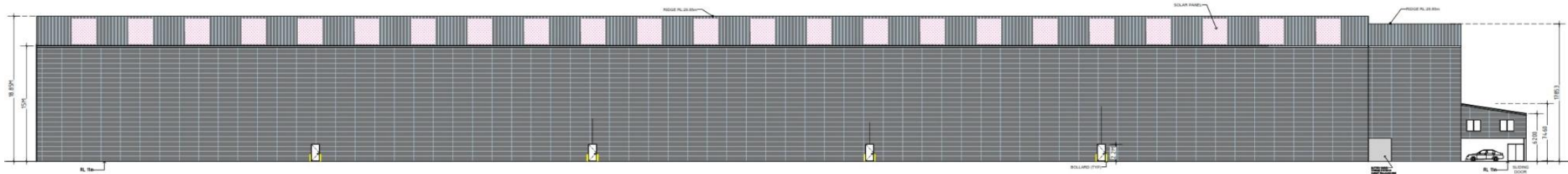
NORTH ELEVATION
SCALE 1:200 @ A1



SOUTH ELEVATION
SCALE 1:200 @ A1



WEST ELEVATION
SCALE 1:200 @ A1



EAST ELEVATION VIEW FROM ASQUITH STREET
SCALE 1:200 @ A1

Schedule of Materials and Finishes	
Wall Material : Colorbond Pale Eucalypt	
Roof Material : Colorbond Evening Haze	
Office Wall Material : Coen Composite Wood Panel (oak) or equivalent	
Office Roof Material : Colorbond Evening Haze	

Early study results

Air quality & odour

- Early modelling of impacts from the proposed facility show the predicted odour impacts are highly contained, with no sensitive or residential receptors impacted.
- Efficient mitigation measures are designed to protect neighbours and the amenity of the surroundings from odorous emissions of waste processing.
- Dust emissions from the proposal are low, though there are some elevated background levels in the area.



Early study results

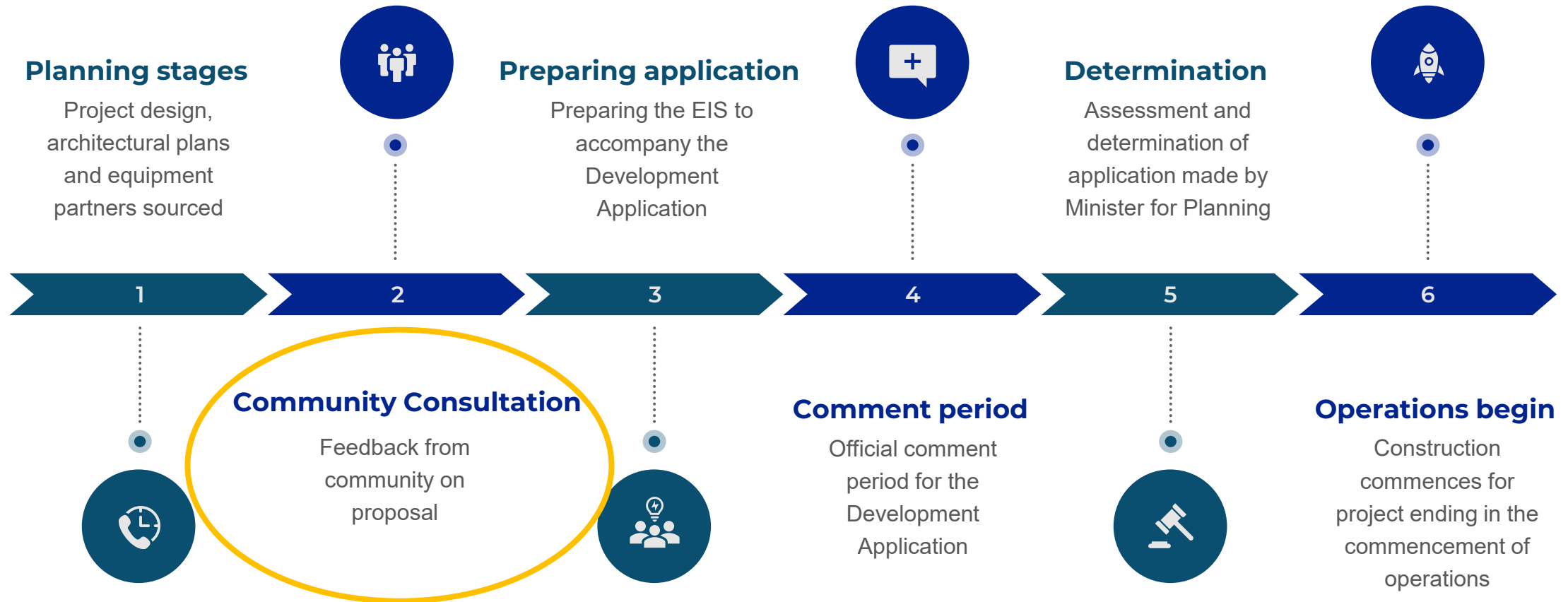
Traffic Impact Assessment

- ☛ Traffic modelling of the heavy vehicle routes has determined that the road network surrounding the site will continue to operate at the existing Level of Service.
- ☛ Road network capacity is sufficient to absorb the additional movements.
- ☛ The predicted traffic volume during operations is approximately 192 heavy vehicles per day for waste deliveries and pick up of processed bales.



All heavy vehicle routes have been designed to avoid residential areas to prioritise neighbourhood amenity.

Planning and assessment process – where are we at?



Feedback and more information



Feedback

You can provide feedback on the proposed development by contacting MET Waste Management via:

🍁 elania@metrecycling.com.au

🍁 Or phone us on 02 8056 1849 or email

admin@jacksonenvironment.com.au

We greatly appreciate your feedback on this proposal which will benefit both the environment and the local economy.