

To help achieve our purpose: create a world without waste to preserve our planet, Sims Resource Renewal is aiming to build several resource renewal facilities globally by 2030. We are proposing the first resource renewal facility will be located at 1904 Hume Highway, Campbellfield, Victoria. The proposed facility will be our first step in eliminating approximately one million tonnes of waste to landfill. Our aim is to transform the waste material into useful products for society.

We will use plasma gasification to transform automotive shredder residue (ASR), left over once we have removed as much metal as possible as part of our metal recycling process, into a synthesis gas (syngas). The syngas is then further processed to produce products including hydrogen, carbon dioxide and a glass like vitrified product. Hydrogen and carbon dioxide will be captured and on-sold from day one.

Overview

The proposed facility will generate traffic movements to and from the site during construction and operation that are different to the current use of the site. Temporary construction traffic will largely be from light vehicles transporting construction workers, as well as heavy vehicles transporting construction materials. Operational traffic will predominantly be related to the delivery of ASR and the export of hydrogen and carbon dioxide.

Purpose of study

A traffic impact assessment was completed to assess the estimated traffic generation and the implications associated with the construction and operation of the proposed facility, located within the industrial zone.

Access to and from the site from the Hume Highway and broader road network was assessed, as well as car parking demand in accordance to Hume City Council planning requirements.



Key findings

The proposed facility will rely on the existing access point to Hume Highway, that is currently shared by the Pick-a-Part facility and entry movements to the existing Sims Metal business. The entry and exit point to the site will be upgraded during site construction to enable safer access onto and off the Hume Highway and to maintain our high commitment to safety of all site operations.

During peak construction we have estimated approximately 200 daily vehicle movements, eight of which are expected to be from heavy vehicles.

Once operational, the facility will generate approximately 130 daily vehicle movements, including 86 heavy vehicle movements. By comparison, the current Pick-A-Part operation generates approximately 330 daily vehicle movements,

including 20 heavy vehicle movements. As such, the Hume Highway and the surrounding road network will receive less traffic movements from the proposed facility operation than is currently the case.

The assessment indicates that the provision of 30 car parking spaces will comfortably accommodate the peak parking demand of the facility for both staff and visitors.

Next steps

The traffic impact assessment will be incorporated into the Planning Permit application that will be submitted to Hume City Council. Construction and operational traffic management plans will be prepared for the site to ensure the safety of site personnel and the general public during both construction and operation of the proposed facility.

Projected daily traffic movements when operational



For more information on this study or to speak to someone from the team please contact Sims Resource Renewal on 1800 570 530 or info.srr@simsmm.com