



Campbellfield resource renewal facility

A state-of-the-art resource renewal facility

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.

The location chosen for our first resource renewal facility is next to our existing metal recycling operation at 1904 Hume Highway, Campbellfield, Victoria.

We have been operating a metal recycling facility in Campbellfield since the late 1960s. We are proud to be a member of the local community providing employment, economic development and recycling services.

We are taking responsibility for our own waste now so it is not left for future generations to manage.

What does the proposed facility involve?

The proposed facility will enable us to immediately reduce our environmental footprint by transforming more than 60,000 tonnes of material left over following our metals recycling process and taken to Victorian landfills every year, into new, useful products.

The advanced, proven technology we will use to transform this material, is plasma gasification and operates safely around the world. This technology heats the material and transforms it into a mixture of clean gases known as synthesis gas (syngas). A “glass-like” product is also created. Importantly this technology does not involve incineration and does not produce the types of problematic emissions that some older forms of technology can create.

We will use green electricity to power our resource renewal facility to initially produce a “glass-like” product to create aggregates for construction material, and hydrogen for industrial

use. Producing hydrogen supports the transition to a more sustainable energy landscape as hydrogen can be used to heat buildings and power vehicles. As a result of hydrogen production, carbon dioxide will be produced and from day one it will be captured and on-sold for commercial use, which could include the food and beverage industry. Any residual gases that remain from the process will be cleaned to meet the strictest environmental standards. The high purity carbon dioxide we propose to produce is necessary for the food and beverage industry as well as for other critical commercial uses. We will produce a clean product that is geographically closer to where it is used and needed in Australia.

This will enable us to immediately take responsibility for our waste, while investing in the critical research and innovation required to improve the technology needed to create a truly circular business model.

As we improve our technology, we will be able to move to a focus on producing the building blocks of recycled plastics.

About the project



Located in Victoria



Use green energy to power our own facilities

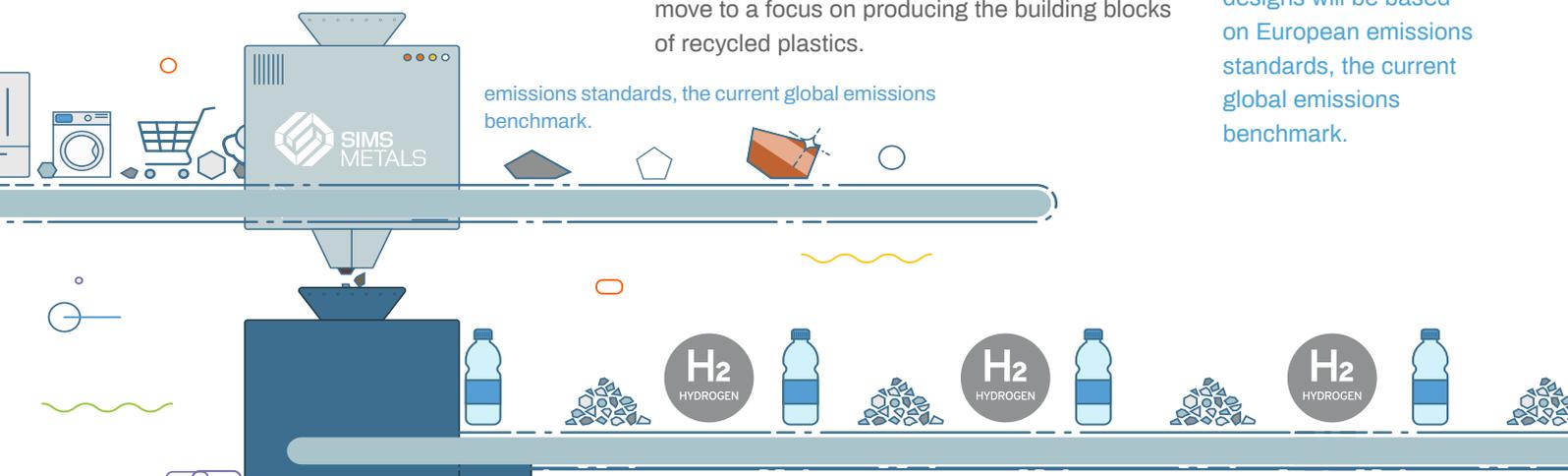


Estimated 60,000 tonnes of ASR diverted from landfill every year



Reduce environmental footprint

Modern plasma gasification technology is used safely around the world and our designs will be based on European emissions standards, the current global emissions benchmark.





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What environmental and economic opportunities will be created through the facility?

In addition to immediately stopping 60,000 tonnes of material going to landfill every year in Victoria, we will reuse the ASR to create aggregates for construction material and hydrogen for industrial use.

We will also generate employment and industry development opportunities through the creation of about 100 jobs during construction and 20 during operations, and a focus on local procurement.

Importantly our research and development will help position the facility globally as a leading centre for resource renewal and circular economy initiatives.

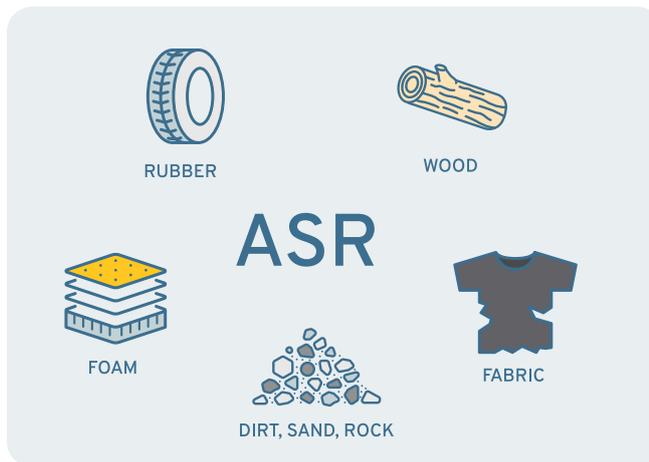
Our design process and research and development are underpinned by our commitment to achieving carbon neutrality by 2042 and net zero by 2050.

As we improve the technology available to us, we will further progress to achieving net zero by creating new products including the building blocks of recycled plastics.

What is ASR?

The material, commonly known as “ASR”, is what is left over once we have removed all recoverable materials as part of our metal recycling process. To be able to re-use this material further we need to treat it through our resource renewal process.

ASR is a safe material and is typically made up of fabrics, plastic, wood, foam and sometimes even dirt and stones.



Project status

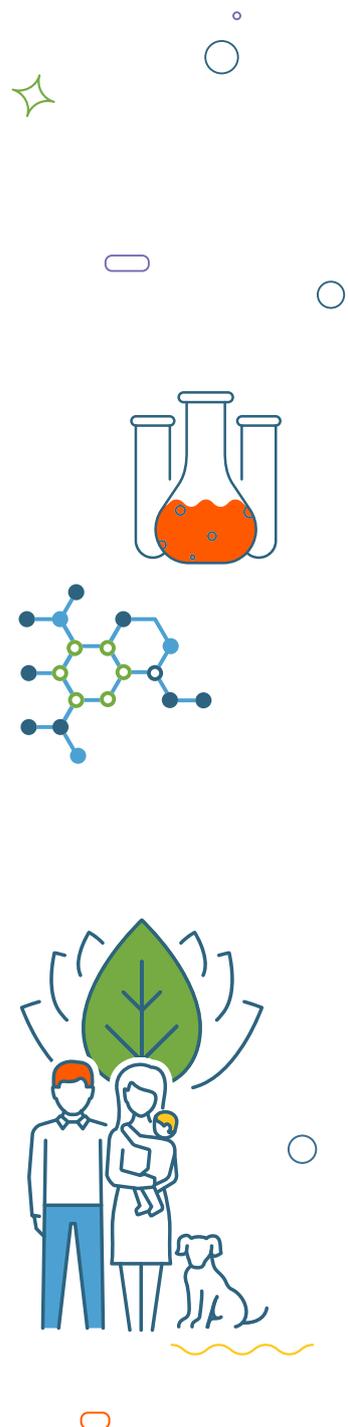
Early planning is underway. We are currently undertaking environmental studies and engineering design and progressing environmental planning assessment processes. This will include applying for a works approval through the Environment Protection Authority Victoria and for planning permission through Hume City Council.

We can only progress to construction of the facility after gaining all required environmental and planning approvals.

Partnering for change

Sims Resource Renewal is committed to working in partnership with our local communities.

We have created a structured engagement program so local community members and other interested stakeholders can get involved. We are also investing in sustainability and social value programs that we will develop in partnership with the local community.





Get Involved

We would welcome the opportunity to talk with you further about how you can participate in our proposal and hear your feedback. Please get in touch with us at: info.srr@simsmm.com
1800 570 530

For more information please head to our website: simsrr.com/projects/campbellfield (this is available in multiple languages).

About Sims Limited

Sims Limited, a proudly Australian company, is a global leader in metal and electronics recycling, and an emerging leader in municipal recycling and renewable energy industries. With more than 200 facilities and operations in 15 countries - primarily in Australasia, North America and Europe - Sims plays an integral role in the circular economy by making resources available for future use. Over the last decade, Sims has recycled in excess of 110 million tonnes of ferrous and non-ferrous materials. Our purpose, create a world without waste to preserve our planet, is what drives us to constantly innovate and offer new solutions in the circular economy for consumers, businesses, governments and communities around the world.

About Sims Resource Renewal

As a division of Sims Limited, Sims Resource Renewal is a leading circular business that operates in line with the waste hierarchy. We plan to design and build several resource renewal facilities around the world by 2030 so we can take the material left over following the metal recycling process and currently taken to landfill to create valuable products for society. We aim to transform one million tonnes of ASR into new products every year by 2030.

Sims Resource Renewal will take responsibility for our waste now, so it's not left for future generations to manage.

The products we create will depend on where the resource renewal facility is located and local market requirements. At our first facility, initially we will create aggregates for construction material and use green electricity to power our own operations. As our technology advances we will shift to producing the building blocks for recycled plastics.



Aggregates for construction materials



Green electricity to power our resource renewal facilities



The building blocks for recycled plastics

Proven, safe, environmentally state-of-the-art technology is used to develop our facilities.

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