Rocklea pilot resource renewal facility

Research and development pilot facility

To help achieve Sims Limited's (Sims) purpose, create a world without waste to preserve our planet, Sims Resource Renewal is aiming to build a number of resource renewal facilities globally by 2030.

Our aim is to deliver a leading circular business model that creates value for our business and society and the proposed pilot facility is a critical step in enabling us to close the loop on our waste and ensure it is not left for future generations to manage.

At these facilities we will re-use the material, known as ASR, left over from recycling old goods such as cars, trolleys and home electrical appliances, which currently goes to landfill.

Using the cleanest, most advanced technology available is a critical focus for us in developing these facilities and we will invest in a research and development focused pilot facility to achieve this.

The location chosen for our first pilot facility is at our existing metal recycling operation at 148 Dunn Road, Rocklea, Queensland.

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

What does the proposed pilot facility involve?

The proposed pilot facility is a small, research & development focused facility that will enable us to not only take local recycling and waste re-use to a new level but allow us to pioneer new methodologies and techniques able to be adopted throughout the world.

The highly controlled research and development we are proposing will enable us to test the commercial viability of developing new products from the ASR left over following our metal recycling process that is currently sent to landfill. This will help us to achieve our objective of transforming one million tonnes of this ASR every year into new, useful products for society by 2030.

The advanced, proven technology we will use at the pilot facility is known as plasma gasification and operates safely around the world. This technology heats the shredded material and transforms it into a mixture of clean gases known as synthesis gas (syngas) that can then be used as the basis for new product creation. A "glass-like" material is also created that will be developed into products used in construction materials.

Importantly this technology does not involve incineration and does not produce the types of problematic emissions that some older forms of technology create.

The pilot facility will help us advance towards our goal of carbon neutrality because as we improve the technology available to us, we will reduce our carbon footprint further by capturing the carbon present in the ASR to create new products which may include the building blocks of recycled plastics.

Our designs will be based on European emissions standards, the current global emissions benchmark. European emissions standards, the current global emissions benchmark.

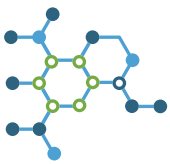
About the project

Located in Queensland

Rocklea
At this pilot facility we will undertake R&D to advance our technology

Planning development application has been determined.

Pilot resource renewal facility



SIMS RESOURCE RENEWAL

Rocklea pilot resource renewal facility

Project status

The Rocklea planning development application has been determined for the research and development pilot facility. We are finalising the detailed designs and will be engaging the main contractor to commence construction in the coming months. More information about our programme is available on our website.

Partnering for change

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

We want to generate shared value by producing new products from recycled materials; to create local employment and economic opportunities; and partner on social value initiatives with the Rocklea community.

What is ASR?

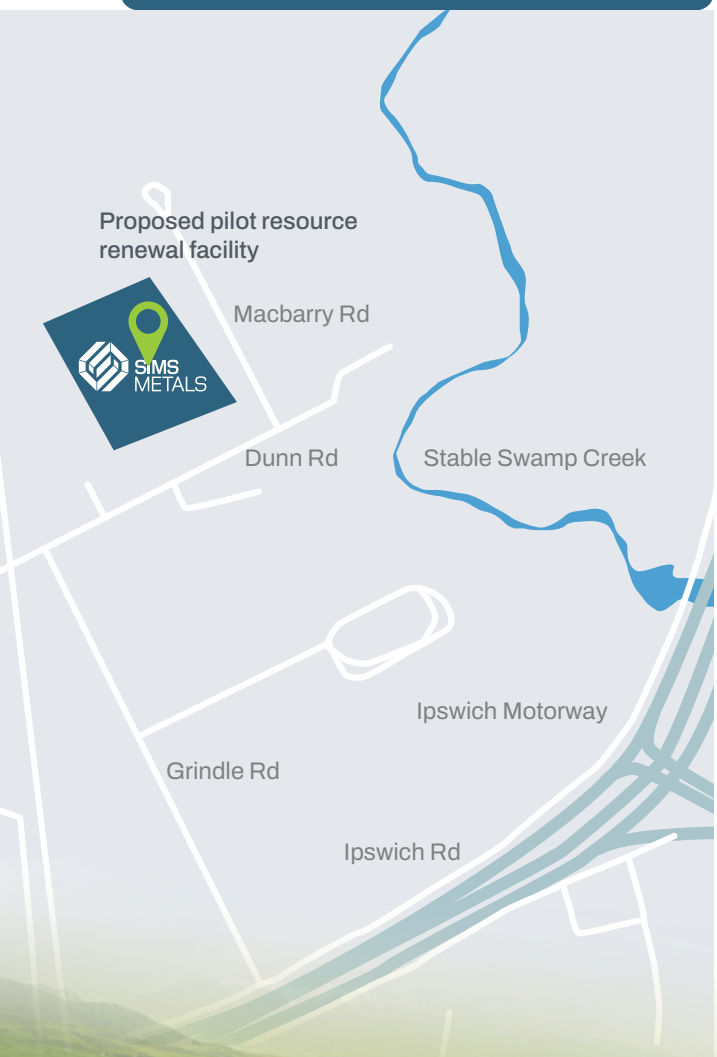
The material left over following our metal recycling process, after removing all recoverable materials, is commonly known as "ASR". To be able to re-use this material further we need to treat it through our resource renewal process.

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

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 a number of 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 shredded material into new products every year by 2030.

Through Sims Resource Renewal we will take responsibility for our own 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 pilot facility the types of products we will research and develop include aggregates for construction materials and the building blocks for recycled plastics.

Aggregates for construction materials

The building blocks for recycled plastics

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

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