SIMS RESOURCE RENEWAL

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 11 resource renewal facilities globally by 2030.

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

Using the 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 1980s. 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 shredded material 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 shredded material 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 burn the shredded materials 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 shredded material 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.

About the project

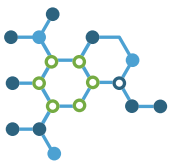
Located in Queensland

Rocklea

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

Early stages of development

Pilot resource renewal facility



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Project status

We are at the very early stages of developing the proposed pilot facility. We are commencing initial stakeholder engagement and environmental and planning assessment processes. We can only progress to construction of the pilot facility after gaining all required environmental and planning approvals. More information about the environmental and planning assessment processes we will be required to undertake is available on our website.

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.

What is shredded material?

Shredded 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.

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 or through our hotline on 1800 570 530 or for more information please head to our website simsrr.com/projects/rocklea (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 11 resource renewal facilities around the world by 2030 so we can take the shredded 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 be researching and developing 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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