Advanced Resource Recovery Centre (ARRC)

From waste to worth

February 2026

Project type

Waste and resource recovery

Project value

$1.6 billion

Timeline



2026–2028
Planning

2026–2027
Early earthworks

2028
Construction

2032
Delivery

Project overview

The Advanced Resource Recovery Centre (ARRC) is the most significant waste and resource recovery infrastructure project ever undertaken on the Gold Coast.

ARRC is a long-term, integrated precinct designed to transform how waste is managed across the city and region. It will support a shift away from reliance on landfill, increase local recycling and organics processing capacity, while creating new opportunities for innovation, jobs and industry growth within the circular economy.

The precinct is being delivered in stages to address the city's key streams of waste – starting with organics (green bin), followed by improved recycling (yellow bin) and planning for future energy recovery to manage non-recyclable or 'residual' waste (red bin) in a way that aligns with environmental and community expectations.

ARRC is owned by the City of Gold Coast and is being delivered for the community with a strong emphasis on environmental responsibility, value-for-money and transparent engagement with residents, industry and stakeholders.

Why we need it

Scan the QR code to watch a video on the journey to zero landfill.

Precinct model

The Advanced Resource Recovery Centre is a strategically planned precinct that reimagines how waste is treated and resources are recovered – from household bins to industrial processes. It aligns with the draft Queensland Waste Strategy 2025–2030 and emerging national waste and circular economy directions.

ARRC's precinct model brings together multiple facilities in one integrated ecosystem that maximises recovery, supports industry participation and encourages innovation. The model is informed by extensive technical analysis and engagement with global and local partners.

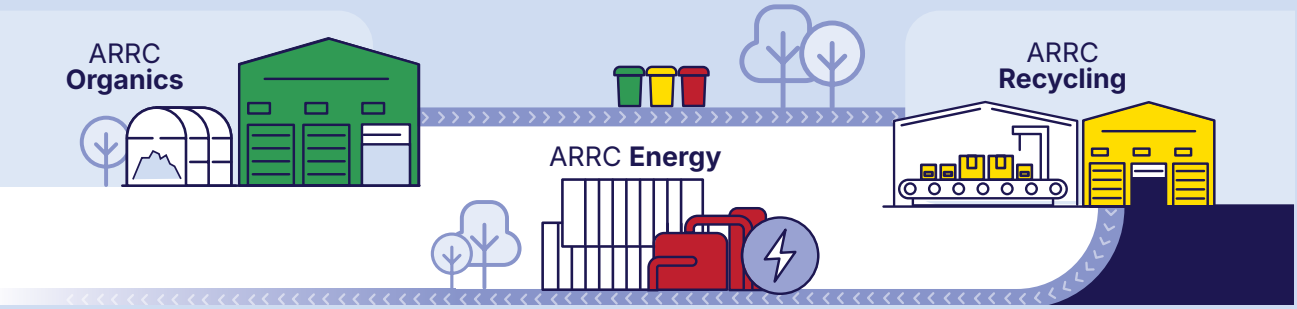
Key elements of the precinct include:

ARRC Organics: The first component – and operational since 2025 – transforming garden and food organics into high-quality compost to keep valuable nutrients in local use.

ARRC Recycling: Planned facilities to improve local recovery of plastics, glass, paper and other recyclables, including a partnership with private company VISY to support on-site glass remanufacturing.

ARRC Energy: Planning for environmentally regulated and technology-appropriate approaches to managing residual waste.

ARRC Hub and Innovation Park: Supporting community education, industry collaboration and research into emerging circular economy opportunities.



Benefits for the community

The Gold Coast is one of Australia's fastest growing cities. With landfill capacity limited and waste volumes increasing, new infrastructure is needed to protect local amenity, reduce emissions, manage costs to ratepayers and support sustainable development.

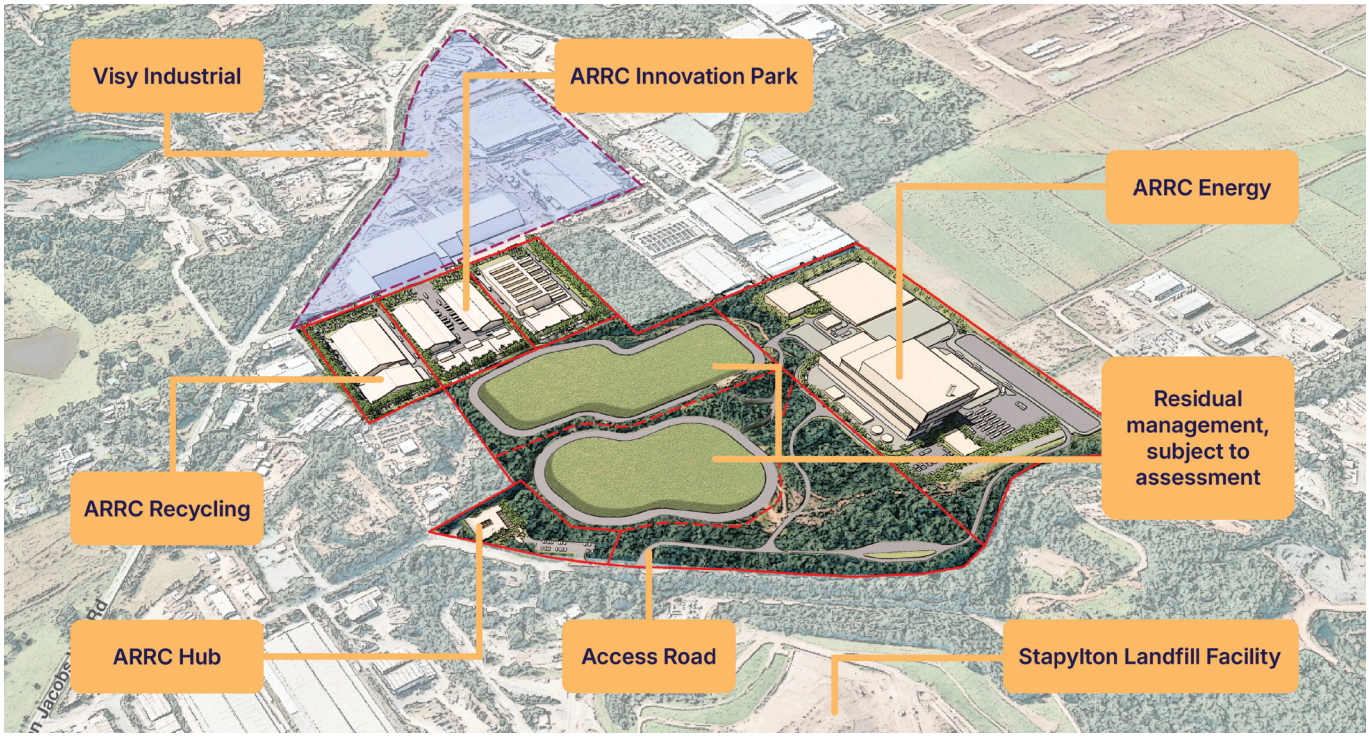
ARRC will:

- reduce reliance on landfill disposal
- increase local capacity to process organics and recyclables
- support new industry and jobs in the region
- help keep trucks and emissions off public roads
- position the Gold Coast as an international leader in resource recovery and circular economy practice.

Latest update

Scan the QR code to watch a video on ARRC updates.

Location



ARRC Organics is located in Yatala, while ARRC Precinct will be on City-owned land in Stapylton.

Community and engagement

The City has undertaken early engagement with people living and working near the proposed precinct and broader Gold Coast community to shape how ARRC is planned and designed. A Community Reference Group (CRG) provides ongoing input, representing local residents, businesses and stakeholders.

ARRC's engagement approach emphasises transparency and two-way dialogue, sharing information early, listening to feedback and incorporating insights into project development.

Further opportunities will be available for community involvement as ARRC progresses through planning and delivery.



Project status

With ARRC Organics up and running, planning for the ARRC Precinct is being progressed in line with the project timeline. Early design work, planning and environmental assessments and approvals, procurement pathway development and community engagement are underway

Residents can stay informed about ARRC developments, milestones and opportunities to engage via the City's project updates and the ARRC Gold Coast website.

ARRC Energy procurement process

The City of Gold Coast has launched an international Open Expression of Interest (EOI) to begin the process of identifying experienced partners to design, build, finance, operate and maintain a new residual waste-to-energy facility at Stapylton.

The proposed facility will be located within the ARRC Precinct at Stapylton, on City of Gold Coast-owned land within the Yatala Enterprise Area, leveraging existing waste infrastructure, strong transport connectivity and appropriate industrial buffers.

The residual waste-to-energy facility is planned to process residual municipal solid waste and commercial and industrial waste generated within the Gold Coast, with forecast residual waste volumes of more than 300,000 tonnes per annum by the early 2030s, after accounting for ongoing improvements in recycling.

While the facility's core role is managing Gold Coast residual waste, it is being planned with scalable capacity to support broader regional waste management needs, subject to future agreements and approvals.



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