FUTURE FORGEWORKS

SWANBANK GREEN STEEL MILL PROJECT

community information

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community information

FUTURE FORGEWORKS

This document is current as at 20 June 2025 and information within may be subject to change without notice.

SWANBANK STEEL MILL
project snapshot

350k
tonnes of green rebar produced annually

385k
tonnes of currently exported scrap steel redirected back into South-East Queensland's circular economy

70%
reduction in CO2 emissions plus the latest odourless processing methods

23%
of total Australian rebar market supplied by Future Forgeworks

$100M
economic stimulius into the South-East Queensland region, supporting local community and economy

500+
jobs across the supply chain

400+
local jobs for mill construction

200+
long-term on-site mill jobs, up-skilling Australian workers in global cutting-edge steel manufacturing technologies

FORGING A GREENER FUTURE

Future Forgeworks is a Queensland based company planning to deliver a Queensland-first green steel mill. Our rebar products, produced from locally-sourced scrap metal, will align with government sustainability targets and the ecological demands from construction and building companies across East-Coast Australia.

Based on global market-leading technology, our landmark project is currently progressing through project feasibility and statutory approvals.

First steel production is expected in 2027, fast tracking Australia's green steel industry and sustainable development.

FUTURE FORGEWORKS

SWANBANK STEEL MILL
project timelines

2025

- **Q1** — Concept engineering activities for the steel mill begins
- **Q2** — Project approvals, community and stakeholder consultation commences
- **Q4** — Site levelling and build infrastructure preparation commences
- **Q4** — Plant equipment manufacturing begins

2026

- **Q1** — Mill infrastructure build commences
- **Q1** — Operational readiness activities begin, including leadership recruitment, systems and processes development
- **Q3** — Equipment delivery and installation commences
- **Q3** — Plant workforce recruitment and training begins

2027

- **Q2** — Plant commissioning
- **Q2** — First rebar production
- **Q4** — Plant at 100% production capacity

SWANBANK STEEL MILL
project technology

LOWEST EMISSIONS

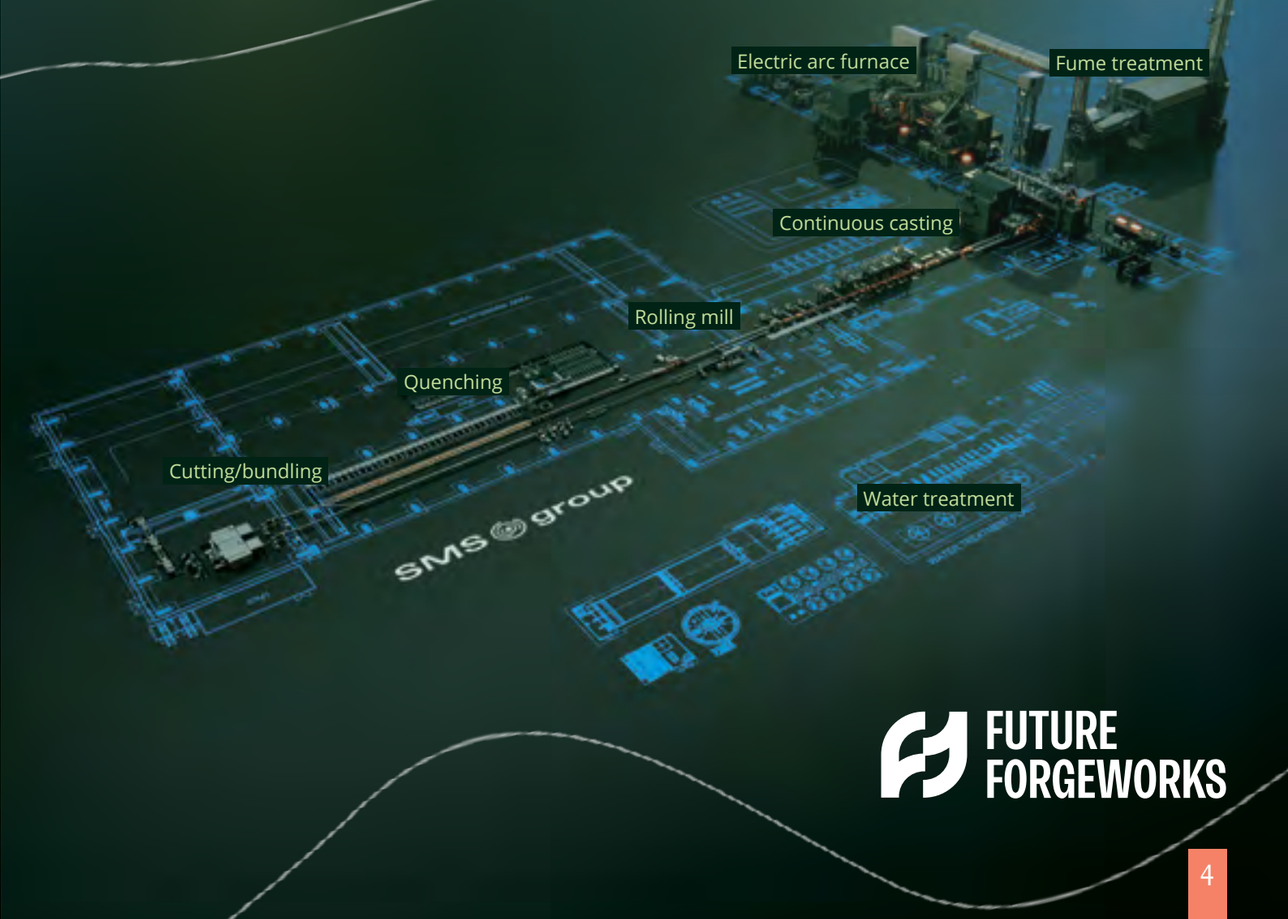
Future Forgeworks is adopting continuous mill technology (CMT) developed by global leader in steel equipment manufacturing, SMS group. With CMT, the billet reheating process is omitted to reduce energy consumption, transformation time, carbon emissions and improved material yield.

Paired with a renewable energy-powered electric arc furnace (EAF), this process technology delivers the greenest, safest and most efficient production option for high-quality rebar product.

The technology is also future-proofed, designed with hydrogen-ready jets prepared for the next best sustainable energy sources.

ECO PLANT DESIGN

The Swanbank Steel Mill has been designed with a number of environmental controls, including a fume treatment plant to capture emissions, closed-loop water recycling, and responsible waste management. These controls aim to optimise energy and water consumption while minimising waste, prioritising safety, regulatory compliance, and operational efficiency – all of which contribute to our sustainability goals.



FUTURE FORGEWORKS

SWANBANK STEEL MILL
community benefits

CIRCULAR ECONOMY
Economic benefits remain within the local community

INDUSTRY SKILLS
Ipswich region as a centre of excellence; career prospects

JOB CREATION
200+ full time workers and their families prospering in Ipswich

SUSTAINABILITY
Products will exceed Australian Sustainable Finance Taxonomy

LOWEST IMPACT
Industry that doesn't cost us the earth; or our way of life

Future Forgeworks' commitment to sustainability extends beyond the environment, creating commercial growth and employment opportunities for the people of Ipswich and surrounding communities.

FUTURE FORGEWORKS

The Swanbank Green Steel Mill will deliver significant benefits to the Ipswich community, the South-East Queensland region and broader Australian economy. Our commitment to pioneering a green steel project aligns with current demands for sustainability, job creation and economic growth, making it a valuable asset for the region.

CIRCULAR ECONOMY

Our rebar will be produced from secondary steel production methods, which relies on melting recycled steel rather than utilising mined iron ore. Future Forgeworks plans to be a central player in South-East Queensland's circular economy, reducing transport of surplus valuable commodities like recycled steel to Asia and the need for international and interstate transport of both scrap metal and rebar.

A circular economy promises less long distance truck journeys on Australia's highways and less international shipping – all of which contribute to a significant reduction in carbon emissions across the value chain of Australia's steel industry. This sustainable approach not only reduces environmental impacts but also keeps economic benefits within the local community.

INDUSTRY SKILL BUILDING

With help from global equipment manufacturing partner SMS group, Future Forgeworks will be bringing electric steel-making production's best practice to Australia. In addition to the sustainability benefits, the implementation of industry-leading technology also positions the Ipswich region as the centre for excellence in Australian green rebar manufacturing technology and innovation.

The Swanbank Green Steel Mill will be the first of its kind in Australia, a positive model for similar future sustainability projects across Australia. Our focus on up-skilling will improve individual career prospects and develop a workforce prepared for the future demand in sustainability practices.

JOB CREATION

Future Forgeworks' 20+ year long-term commitment to the project offers continuous employment and financial certainty, allowing 200+ workers and their families to prosper in the city of Ipswich.

Economic stimulus derived from the project will also strengthen economic resilience and employment opportunities across the supply chain – spanning manufacturing, engineering, trucking and logistics, construction, hospitality, safety, administration, protective equipment, clothing, and more.

STRONG DEMAND

Rebar is a key component to reinforcing concrete in large-scale construction. Our green rebar will meet the increased demand from construction and building companies pursuing sustainable materials.

Infrastructure requirements are increasing, with populations in the Ipswich City Council and greater South-East Queensland expected to grow substantially over the next 20 years. This growth, coupled with the upcoming 2032 Brisbane Olympic and Paralympic Games, places transport, community, hospitals, defence, energy, dams and building infrastructure projects at the forefront of government and community planning. This equates to A$103b across Queensland's public and private projects pipeline between 2024-28 alone.

SUSTAINABILITY POLICY ALIGNMENT

By decreasing reliance on fossil fuels, our project aligns seamlessly with global efforts to mitigate industrial emissions, whilst fostering economic prosperity.

The Swanbank Green Steel Mill project aligns with a number of government priorities across sustainability and economic development. As a G20 nation, Australia is committed to reducing carbon emissions to net zero by 2050, with green projects becoming imperative to reaching this target.

Similarly, with the $22.7b Future Made in Australia package announced in 2024 by the Australian Government, our project is in line with Australia's goals to drive advanced manufacturing in Australia and bring skilled jobs back to Australia. Our green rebar, called ECO-X500, will be backed by a 100% 'Made in Australia' guarantee – sustainable materials made by Australians, for Australians.

SWANBANK STEEL MILL
community considerations

- NOISE
- AIR
- WATER
- TRAFFIC
- SAFETY

At Future Forgeworks, we prioritise the surrounding community and environment in our mill's operations planning and design. We are driven by our core value #WeThriveTogether, with our surrounding communities being foundational to this value.

FUTURE FORGEWORKS

One of the greatest modern global challenges is 'sustainable' development – where economic prosperity and industry job creation doesn't cost us the earth.

Literally.

Our project brings the latest technological advancements and industry best practice to the Ipswich City Council, ensuring minimum impact from our green steel mill project on the surrounding environment and neighbouring residential communities.

Green AND minimum impact

We have undertaken extensive engineering studies and technical assessments with our plant manufacturing partner, **SMS group**, and plant concept engineering partner, **Aurecon**, to verify our mill's compliance with all relevant legislation and regulations.

- Noise impact assessment
- Air quality report
- Stormwater management plan
- Traffic impact assessment
- Bushfire hazard assessment and management plan
- Historical mining risk assessment
- Chemical and hazardous substance storage management plan
- Operational management plan

SWANBANK STEEL MILL RENDER – AURECON (MAY 2025)

SWANBANK STEEL MILL
community considerations cont.

NOISE QUALITY

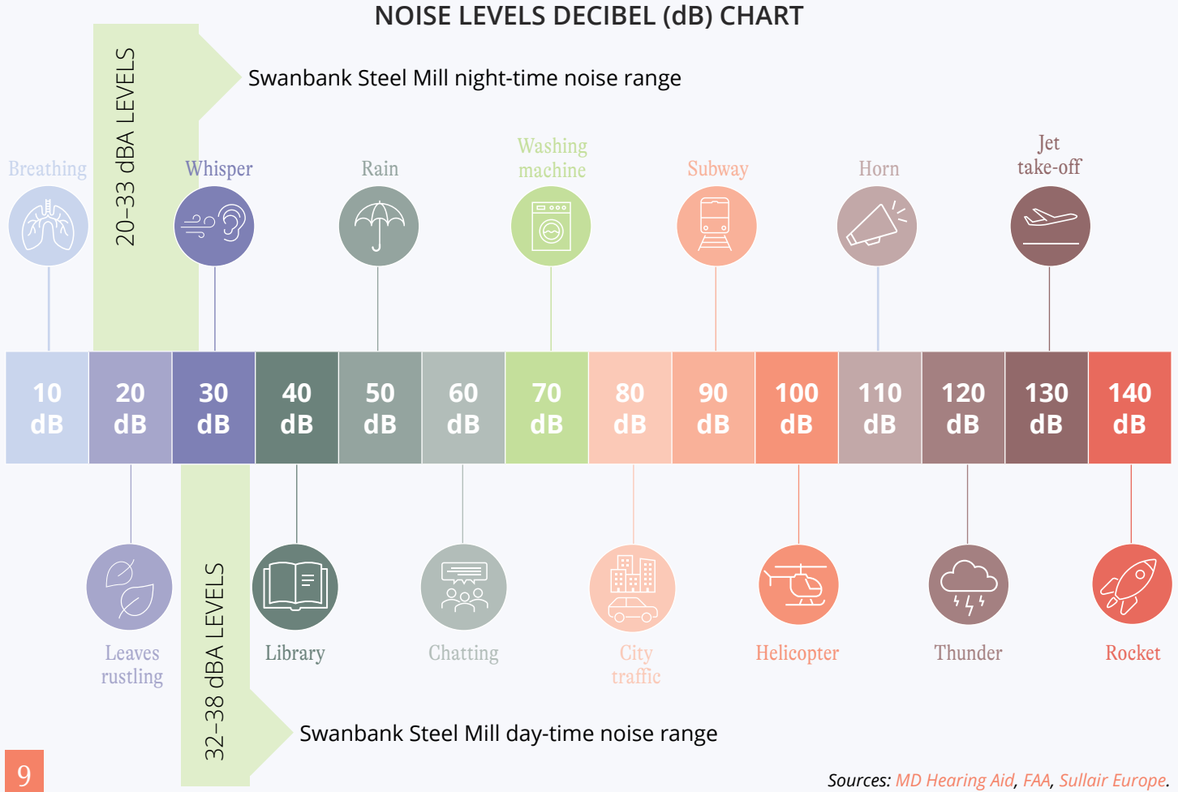
Electric arc furnace steel mills are globally renowned for being quiet. Our mill's layout, enclosed construction and ventilation stack have been designed to suppress noise generated by the manufacturing process and preserve noise quality on surrounding residential streets.

MEASURES
An exploration of noise mitigation opportunities was conducted during concept engineering, with building cladding, absorptive silencers, screening, acoustic louvres and staggered operations identified to ensure minimal impact to community while meeting legislative requirements.

ASSESSMENT OUTCOME
Modelling using these mitigants demonstrate that our mill will comply against the applicable noise criteria, with minimal impact to the nearest surrounding residential suburbs; quieter than the background noise created at night by fauna (insects etc). The predicted noise level of the manufacturing process at the closest suburb is 34 dBA (day-time) and 26 dBA (night). In comparison to everyday noise sources, the volume will be quieter than sitting in a library (see *Noise Levels Decibel Chart*).

	Day	Evening	Night
Noise limit	<50 dBA	<46 dBA	<37 dBA
Our steel mill	32–38 dBA	32–38 dBA	20–33 dBA

Noise limit criterion based on *The City of Ipswich Planning Scheme, SC6.9 Noise Impact Planning Scheme Policy* and background noise assessments.



Sources: MD Hearing Aid, FAA, Sullair Europe.

We understand odour is an area of concern for local communities. For this reason, air quality has been front of mind in our mill's engineering design. Given the enclosed operations, processing technology, safe work management plans and materials utilised, the air released by the Swanbank Steel Mill will be **odourless**.

AIR QUALITY

Secondary steel production is traditionally odourless. Our mill will not generate or store putrescible waste; and scrap metal processing and finishing operations (including painting or coating) will be conducted off-site. Further, our manufacturing processes will use state-of-the-art EAF milling technology from SMS group to optimise air quality and mitigate emissions.

FUME TREATMENT PLANT
The main contributor to air quality compliance is our fume treatment plant **(1)** and associated processes. The mill will extract fumes created by the enclosed melt shop via a dedicated vacuum and ducting system. Fumes collected from the furnaces will be cooled before being injected with activated carbon – the safest, most efficient technology to eliminate particulate matter. From there, the air will be pushed through filters, where dust and residual metals will be bagged and disposed of off-site, leaving clean air to be discharged via the release stack.

SCRAP METAL – STRICT QUALITY STANDARDS
Our mill will not process scrap metal; instead, this will be handled by our partners at Rocklea. Before recycled metal is brought to the mill, it is separated from non-metallic materials, hazardous substances or pollutants harmful to the health of the environment – in accordance with the *Institute of Scrap Recycling Industry* specifications. All incoming scrap metal will be inspected in the open scrap yard **(2)** to ensure it meets these strict quality standards. This ensures scrap metal feedstock is free from materials or pollutants that may impact air quality.

REMOVAL AND REUSE
Steel impurities collected from the furnaces will be cooled indoors before being transferred to covered slag pits **(3)** as a hardened material. The majority of waste products generated at the mill will be collected for reuse in other industrial applications (e.g. road construction, paving), providing further ways we contribute to South-East Queensland's circular economy.

ASSESSMENT OUTCOME
Independent air quality modelling for the Swanbank Steel Mill predicts that particulate matter with a diameter of 2.5 micrometers or less ($PM_{2.5}$) received by any neighbouring communities will be at most 5% of the current allowable cumulative annual average concentration. This means that the Swanbank Steel Mill meets the objective of ecologically sustainable development. Environmental values, namely health and biodiversity of ecosystems, human health and wellbeing, and environmental aesthetics, will be upheld.

	Concentration	Percentage
$PM_{2.5}$ objective	≤ 7 µg/m³	≤ 100%
Our steel mill	≤ 0.4 µg/m³	≤ 5%

Objective based on the *Environmental Protection (Air) Policy Amendment 2024*. Industrial activities with annual $PM_{2.5}$ objectives up to 7 µg/m³ are deemed to meet environmental values required for ecologically sustainable development.

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