



Annual General Meeting

14 November 2013

Presentation by
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2013 Overview



- **Austpac's immediate focus is commercialising our steel waste recycling process through the "Newcastle Iron Recovery Plant "**
- **Plant construction is nearing completion, commissioning has commenced; and full scale operations will start in 2014**
- **Steelmakers show strong interest in licensing the technology**
- **Austpac's technologies:**
 - **Recycle steel industry waste (iron oxide and spent acid) to produce**
High purity iron for foundry castings and steel making
Strong hydrochloric acid (HCl) for the steel industry
 - **Produce ultra-high grade synrutile from ilmenite (the ERMS SR process)**

The Year in Review



- **December 2012 – Sale of EL 4521 Victoria (WIM 150) concluded and \$7.5 million banked**
- **Q1 2013 – Project team reassembled and construction of Newcastle Iron Recovery Plant continues through Q2 and Q3 2013**
- **April 2013 – Kronos cancels Project Agreement and lodges claim to recover costs; Austpac's lodges vigorous defence**
- **September 2013 – Austpac and Kronos agree to terminate litigation; Kronos retains shareholding and technology licence**
- **September 2013 – Deliveries of mill scale to Plant commence**
- **October 2013 – Commissioning of mill scale preparation section commences**

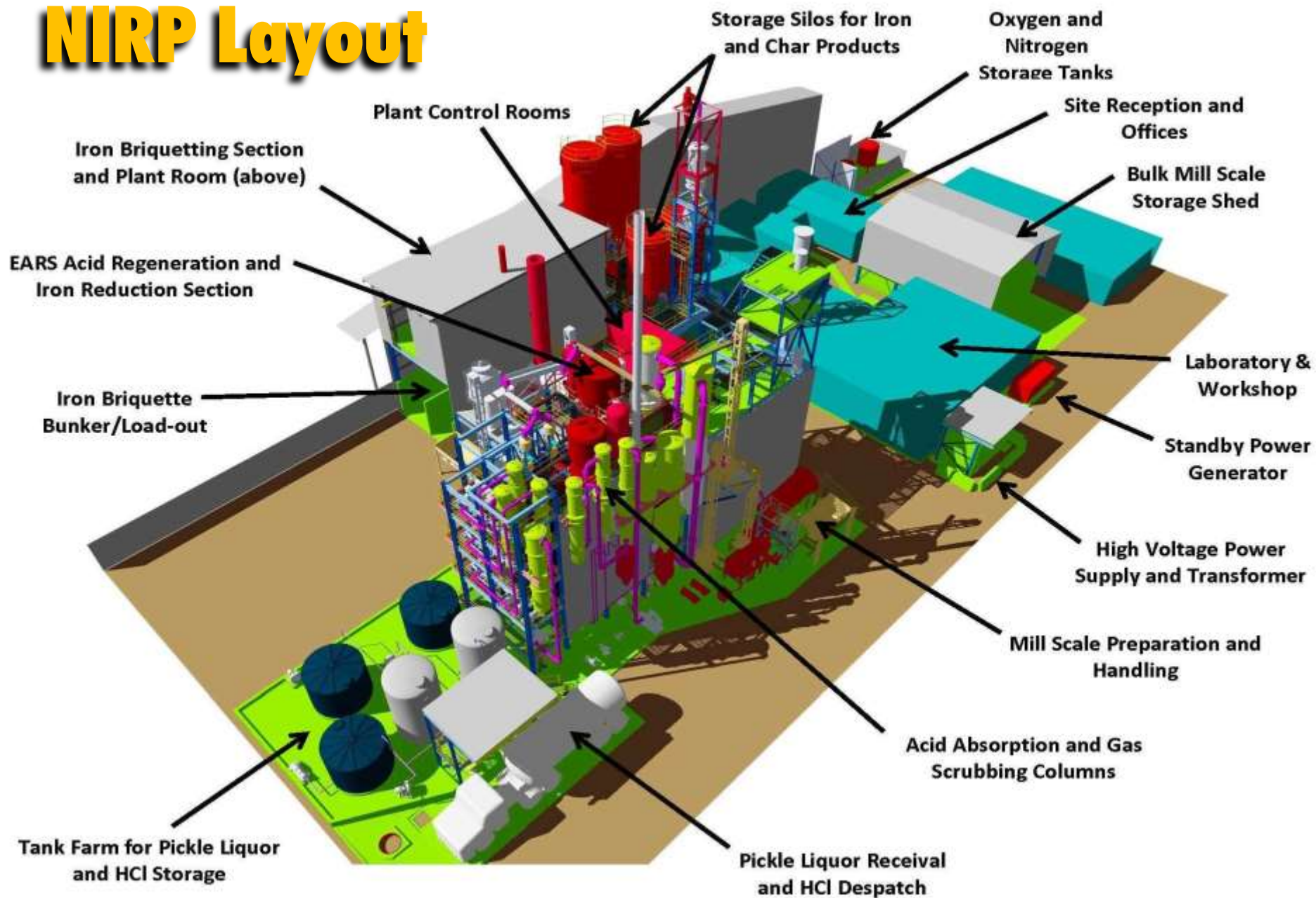
Newcastle Iron Recovery Plant "NIRP"



Newcastle
Sydney

Austpac's Plant

NIRP Layout



NIRP – View from the Southwest



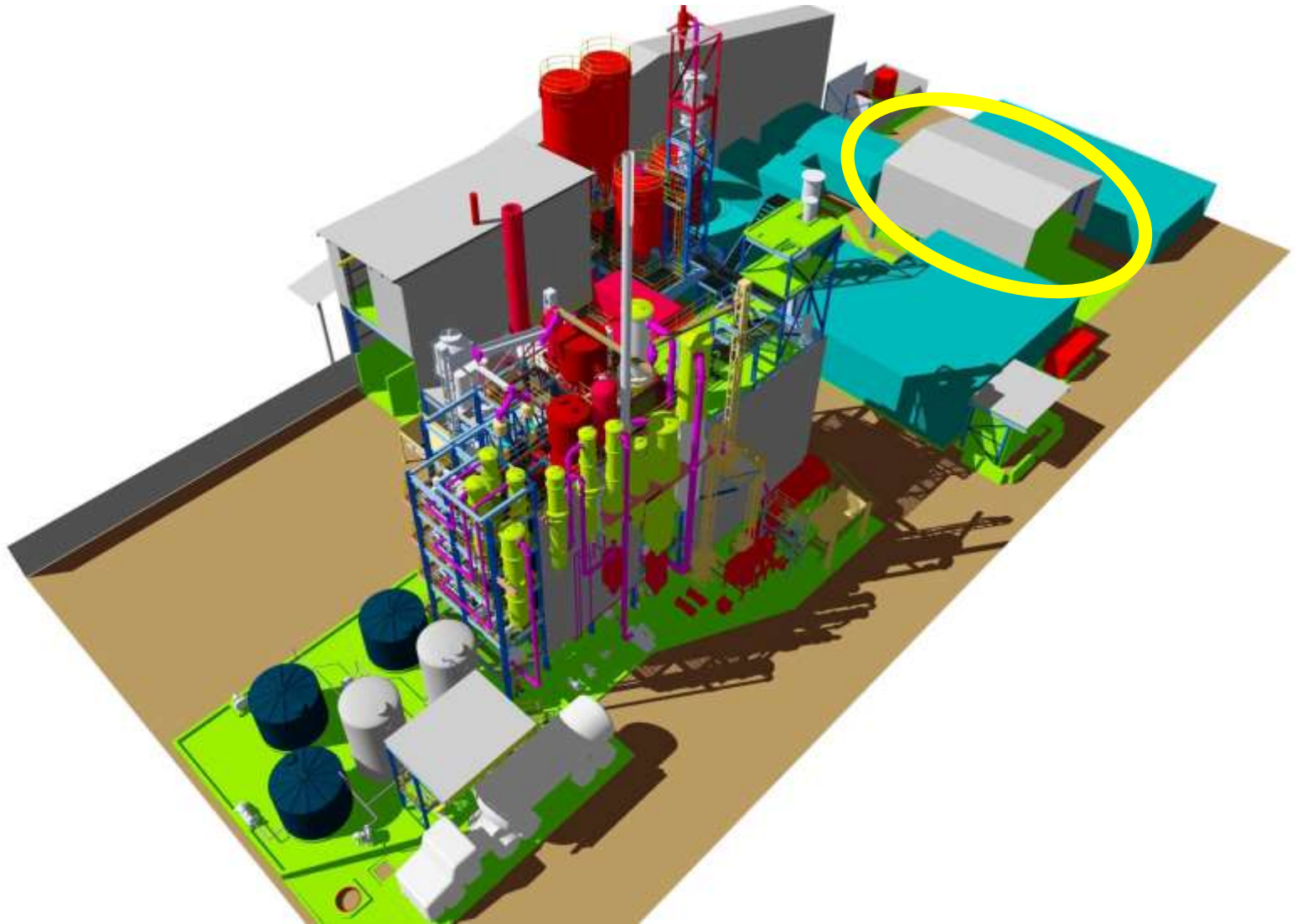
NIRP – View from the Northeast



NIRP – View from the Northwest



NIRP – Mill Scale Storage



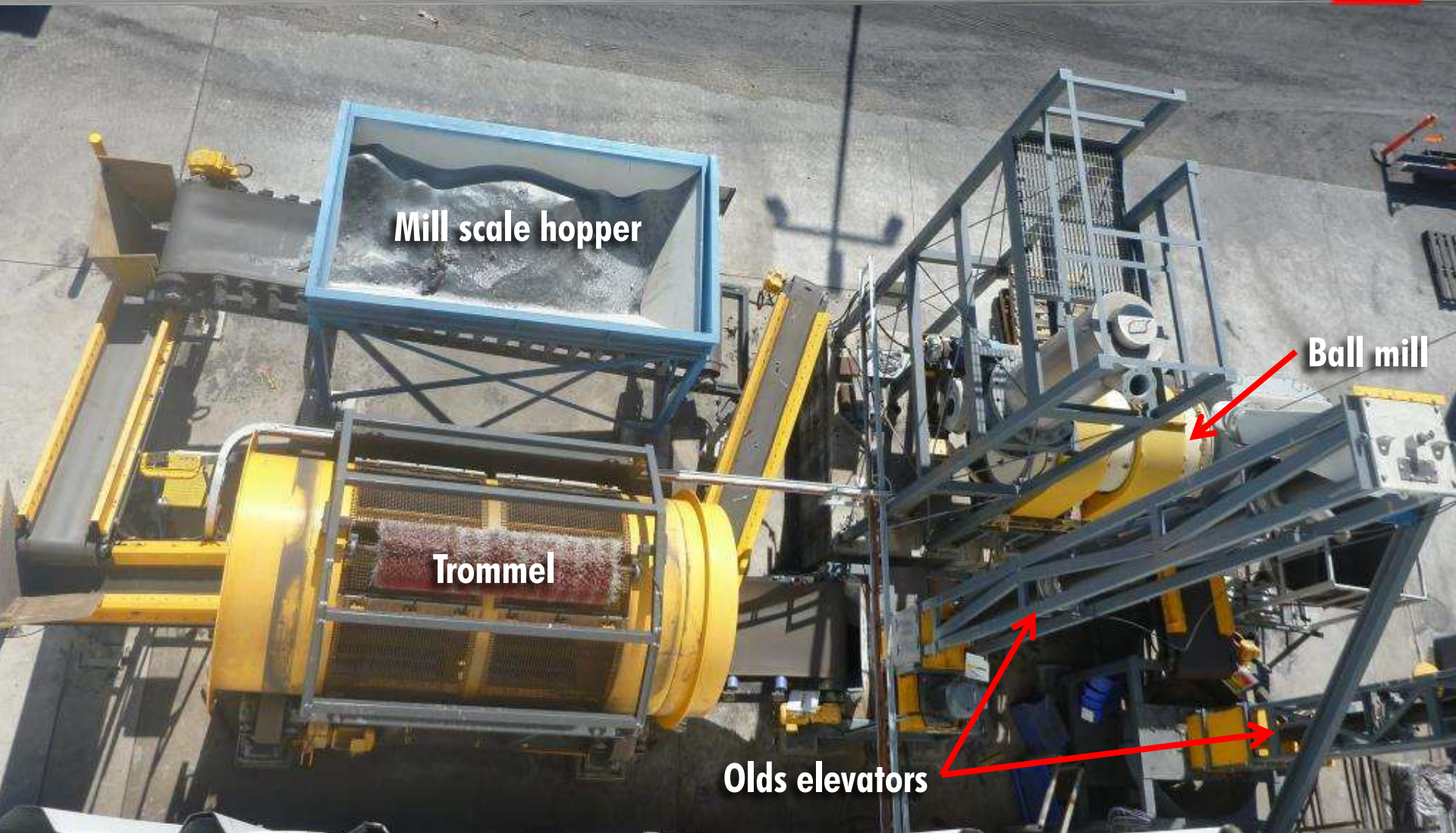
Mill Scale Delivery & Storage



NIRP – Mill Scale Preparation



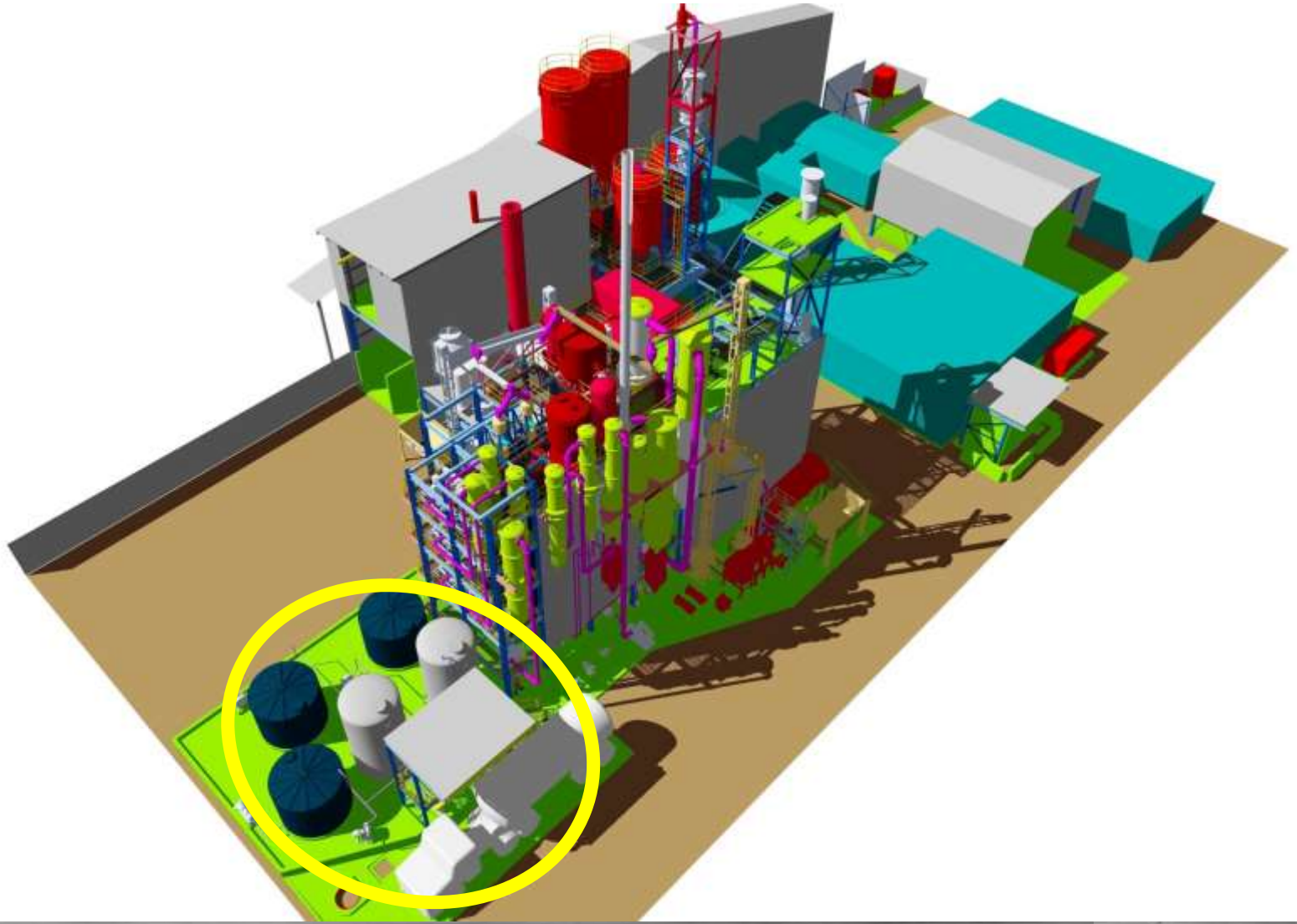
Mill Scale Preparation



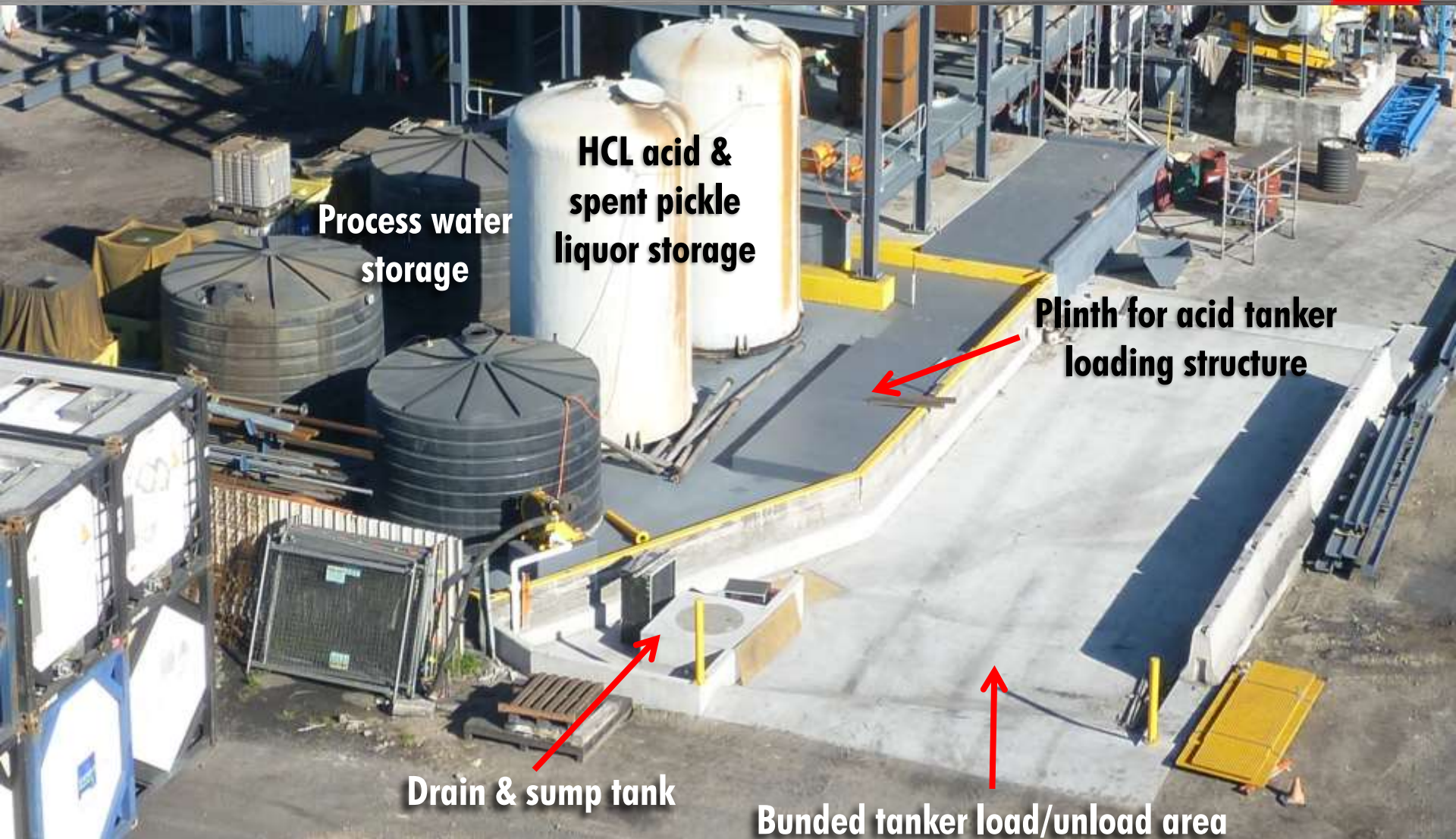
Mill Scale Preparation



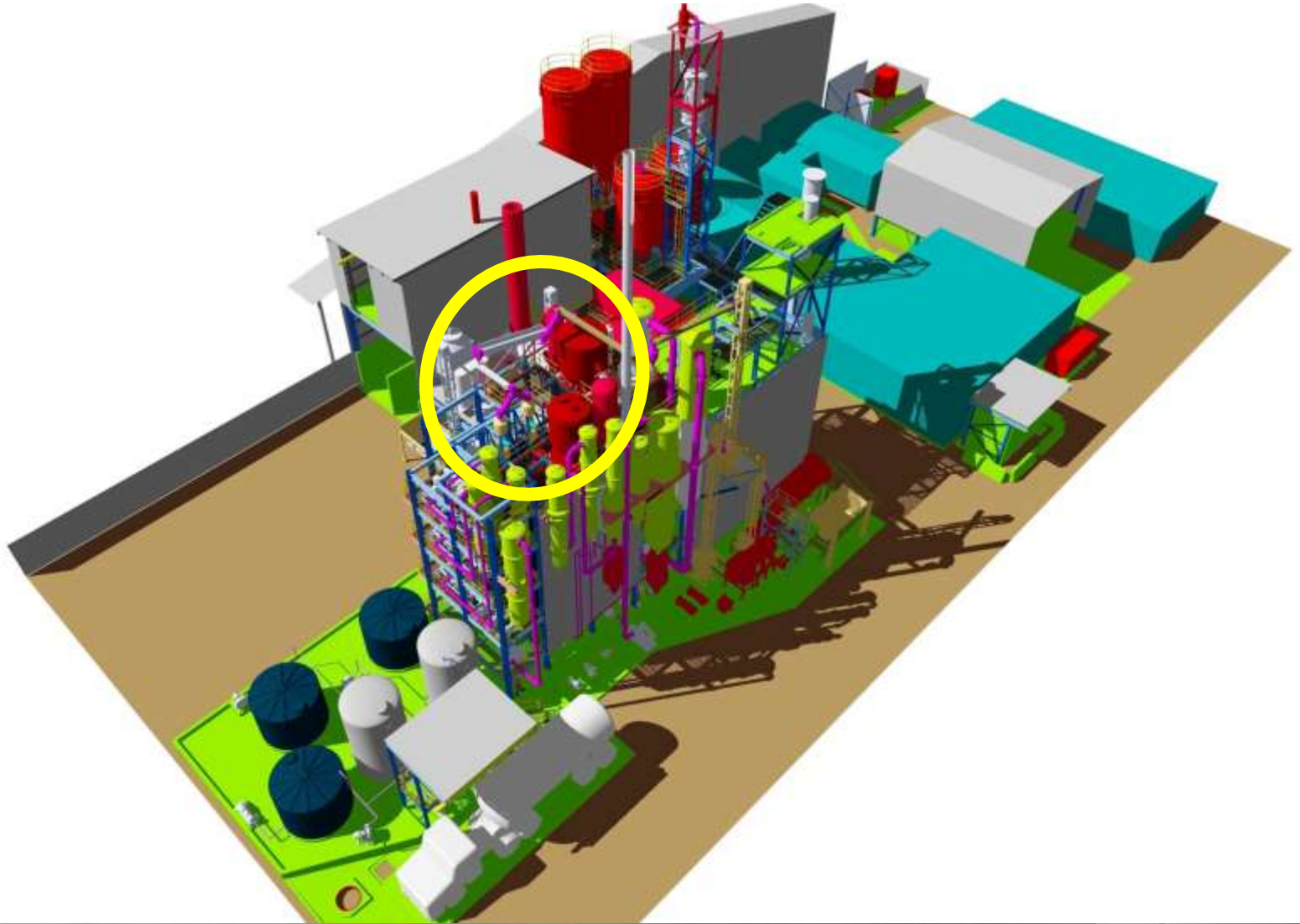
NIRP – Tank Farm



NIRP – Tank Farm

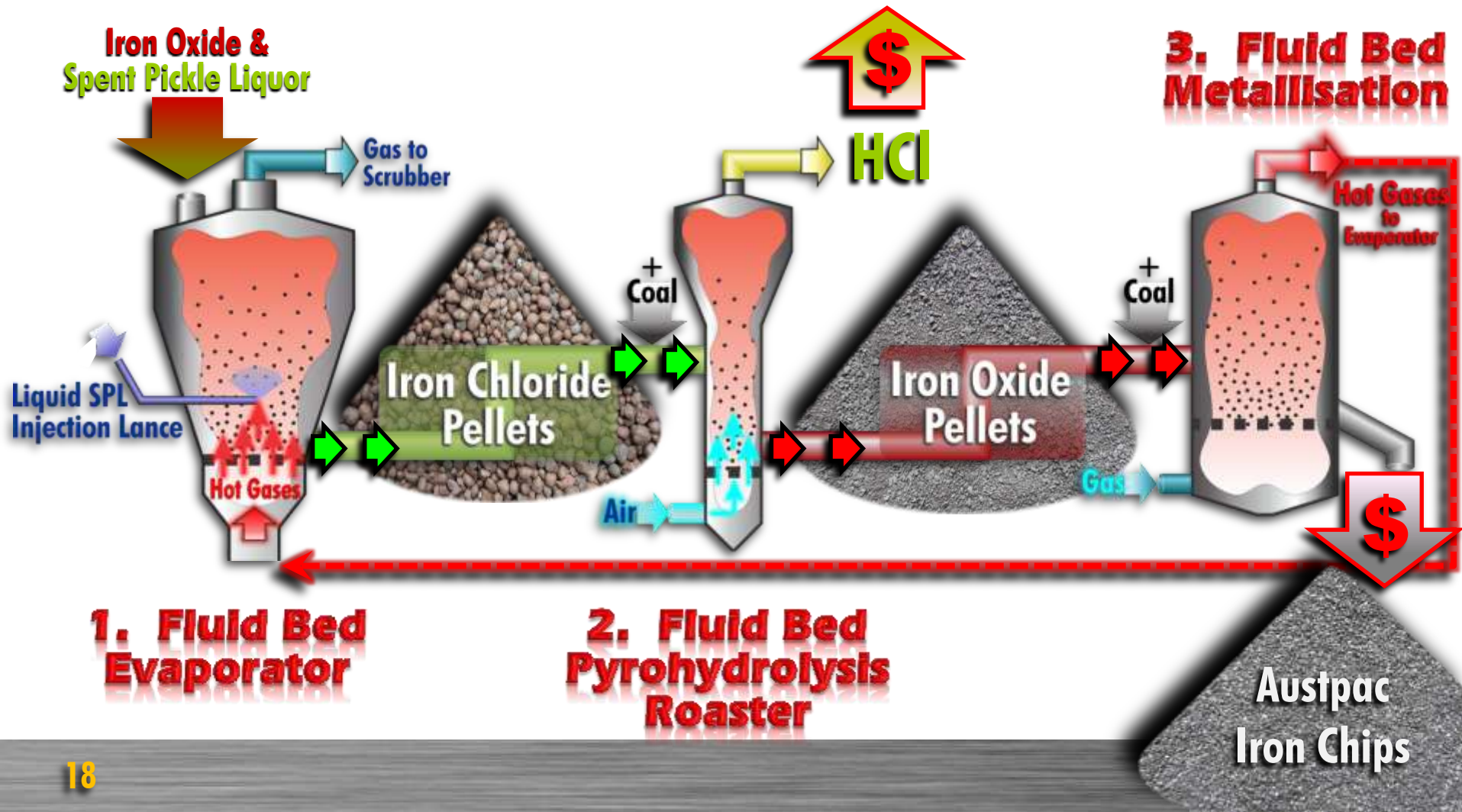


NIRP – Acid Regen/Fe Oxide Reduction



EARS Process & Metallisation

(Austpac's Proprietary Technologies)



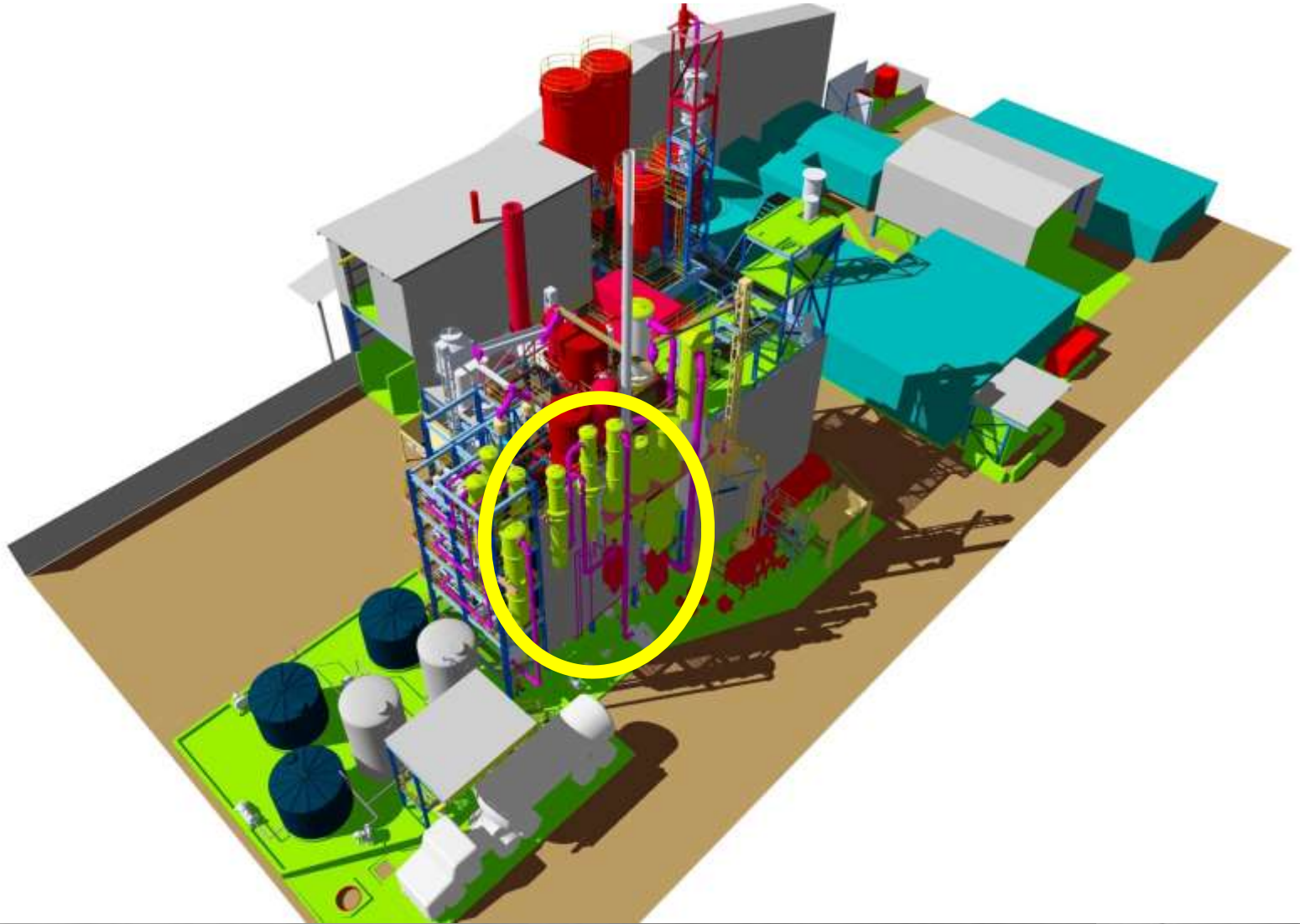
NIRP – EARS Acid Regen/Metallisation

**CO₂ stripping
& absorption
columns**



**Stoves (Heat
Exchangers)**

NIRP – Gas Absorption & Scrubbing

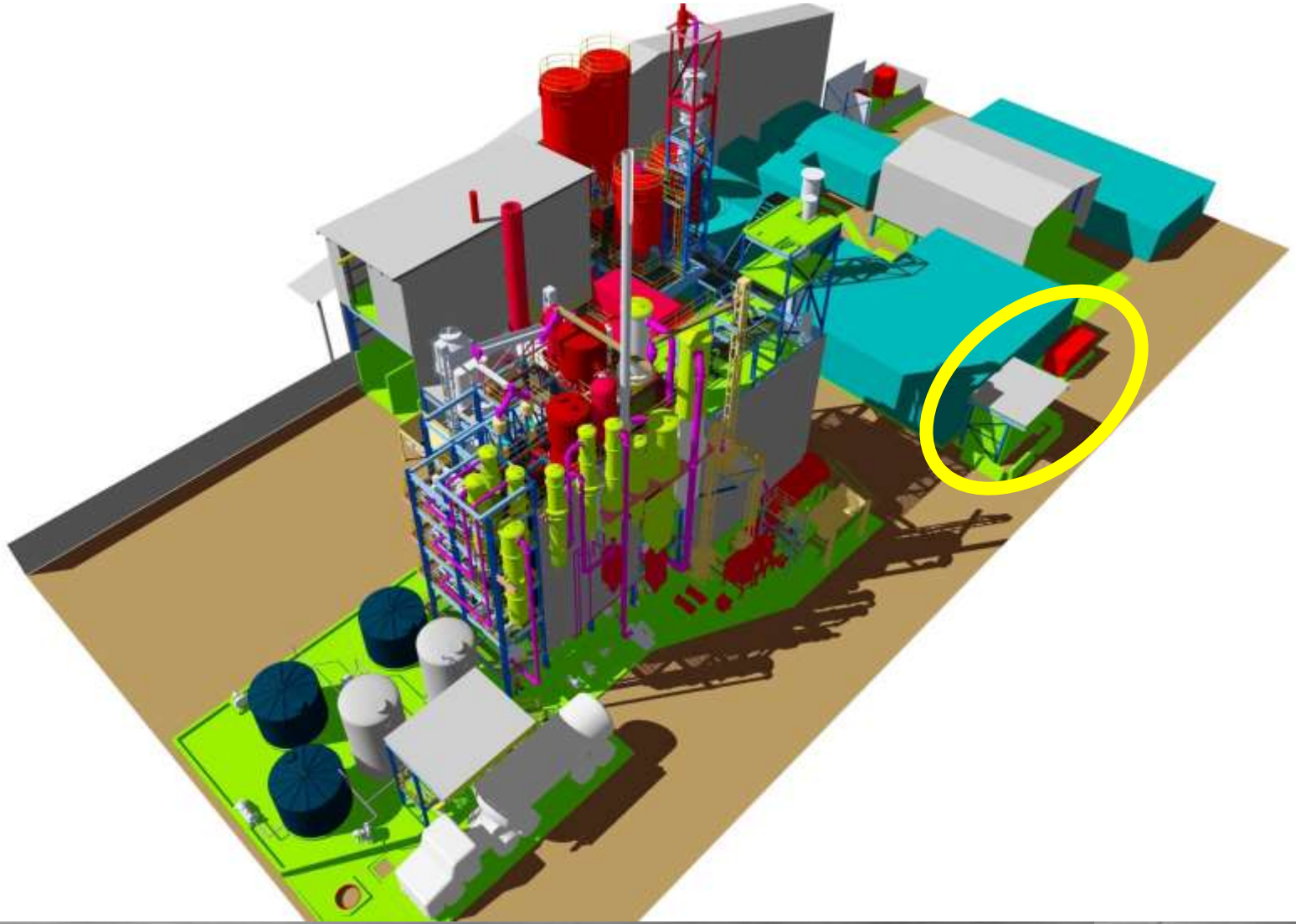


NIRP – Gas Absorption & Scrubbing



**HCl absorption & gas
scrubbing columns
awaiting installation**

NIRP – 2,000A 33 kVA Power Supply



NIRP – 2,000A 33 kVA Power Supply



Installation of the
2,000A 33 kVA
transformer



HV switch room

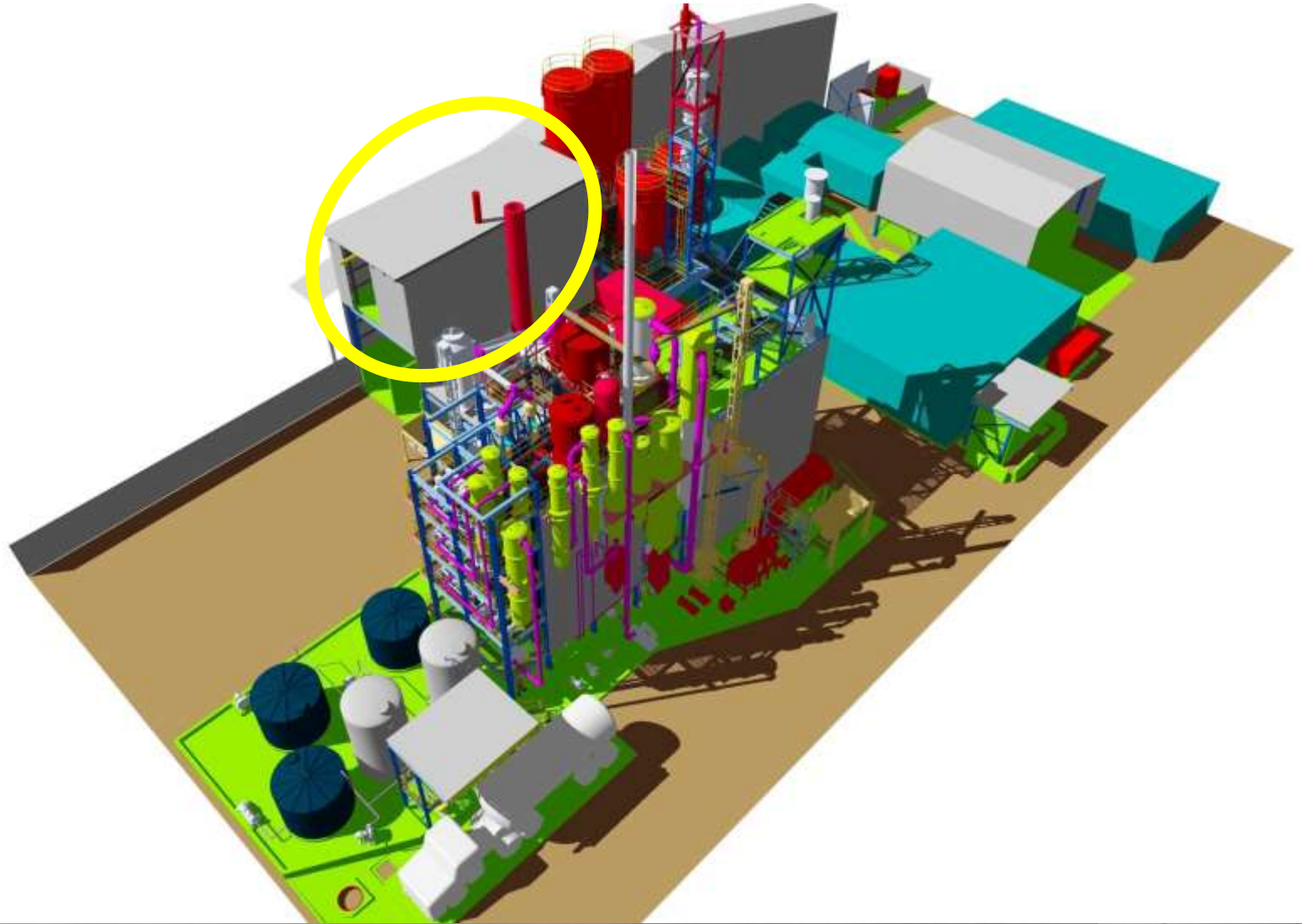
NIRP

33 kVA switchyard

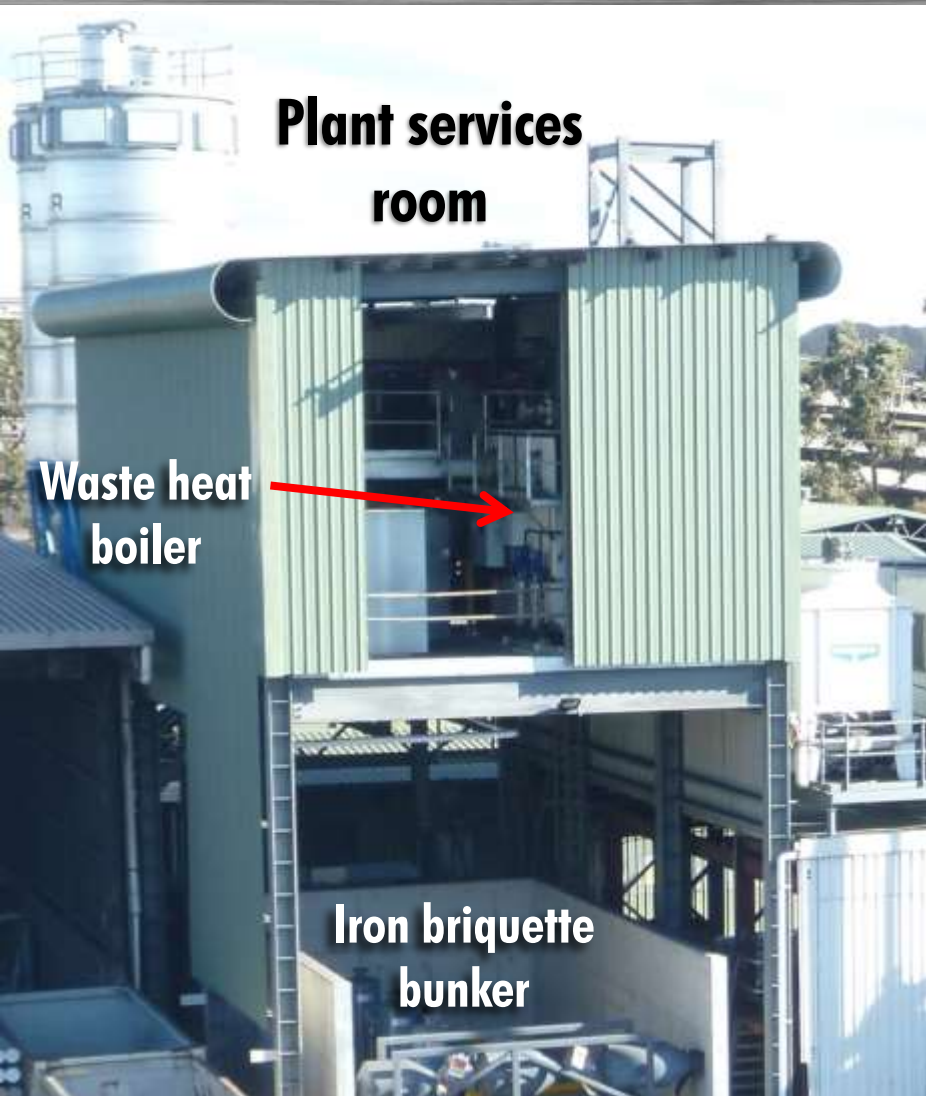


Drawing HV cable from the
transformer to the switch room

NIRP – Plant Services



NIRP – Plant Services



NIRP – Product Load-out



Project Timelines



- **Construction advances and commissioning commences Q4 2013**
- **Modifications made to improve mill scale handling equipment**
- **Commissioning will continue into January 2014, followed by production**
- **NIRP will be a reference site for Austpac's EARS acid regeneration & metallisation (iron reduction) process for recycling the world steel industry's wastes**

Potential for Licences



Business Model



- **Technology licenses will be situation specific**

Options include

Site licences

Company specific licences

Country or regional licences

- **Licences will include**

Up-front fee for technology (“FEED”)

Production royalties

Future Developments

- **Technology licence opportunities with steel mills:**
 - Near term – recovering iron from a fine oxide waste dump
 - 2014 – replacing an aging acid regeneration plant
- **Recycling mixed oxide dusts and mixed chloride liquors**
- **Licences with other steel mills around the world**
- **When NIRP is fully operational, implement opportunities for a commercial ERMS SR synrutile plant to produce high grade feedstock for titanium sponge industry**



The logo for Austpac features a stylized 'A' composed of two red triangles pointing towards each other, set against a black background. To the right of the 'A', the word 'AUSTPAC' is written in large, bold, black, three-dimensional block letters.

AUSTPAC

The background of the lower half of the image is a photograph of a steel recycling facility. It shows a large industrial structure with a bright orange and yellow fire or molten metal being processed. The scene is filled with industrial equipment, pipes, and structural beams.

RECYCLING STEEL WASTE

www.austpacresources.com