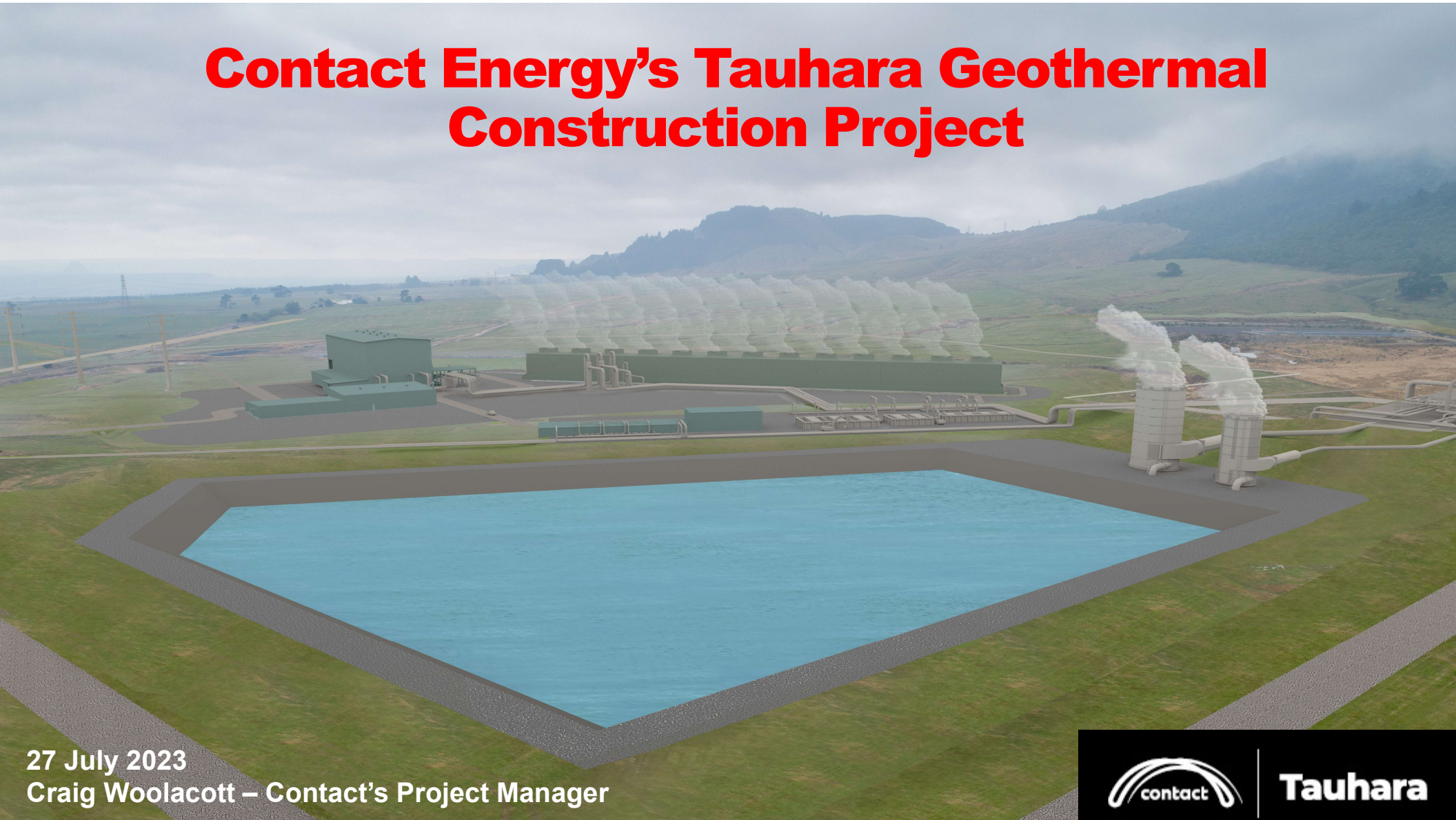


Contact Energy's Tauhara Geothermal Construction Project



27 July 2023
Craig Woolacott – Contact's Project Manager



Tauhara

Transitioning New Zealand to Lower Carbon Emission Electricity

**A presentation for the
2023 New Zealand Geothermal
Week**

27 July 2023
Craig Woolacott – Contact's Project Manager



Tauhara

Contact's Lower Carbon Emissions Commitment



Tauhara

- . At Contact, we are committed to building a better Aotearoa New Zealand by leading the country's decarbonisation.**
- . We are always looking at ways to reduce our emissions and meet our ambitious target of being net zero by 2035.**

Contact's Lower Carbon Emissions Commitment



Tauhara

- . As part of this, we're developing new renewable electricity projects throughout the country. In 10 years, we have increased our renewable energy portfolio from 60% to almost 90%.**
- . Geothermal power stations are a key part of Aotearoa's electricity generation system as they generate renewable, base load electricity.**

Contact's Lower Carbon Emissions Commitment



Tauhara

- . We own and operate five geothermal power stations in the Taupō region, generating roughly 40% of geothermal electricity in New Zealand.**
- . To reach low carbon targets, we're using innovation like NCG reinjection at our Te Huka power station.**

Contact's Lower Carbon Emissions Commitment



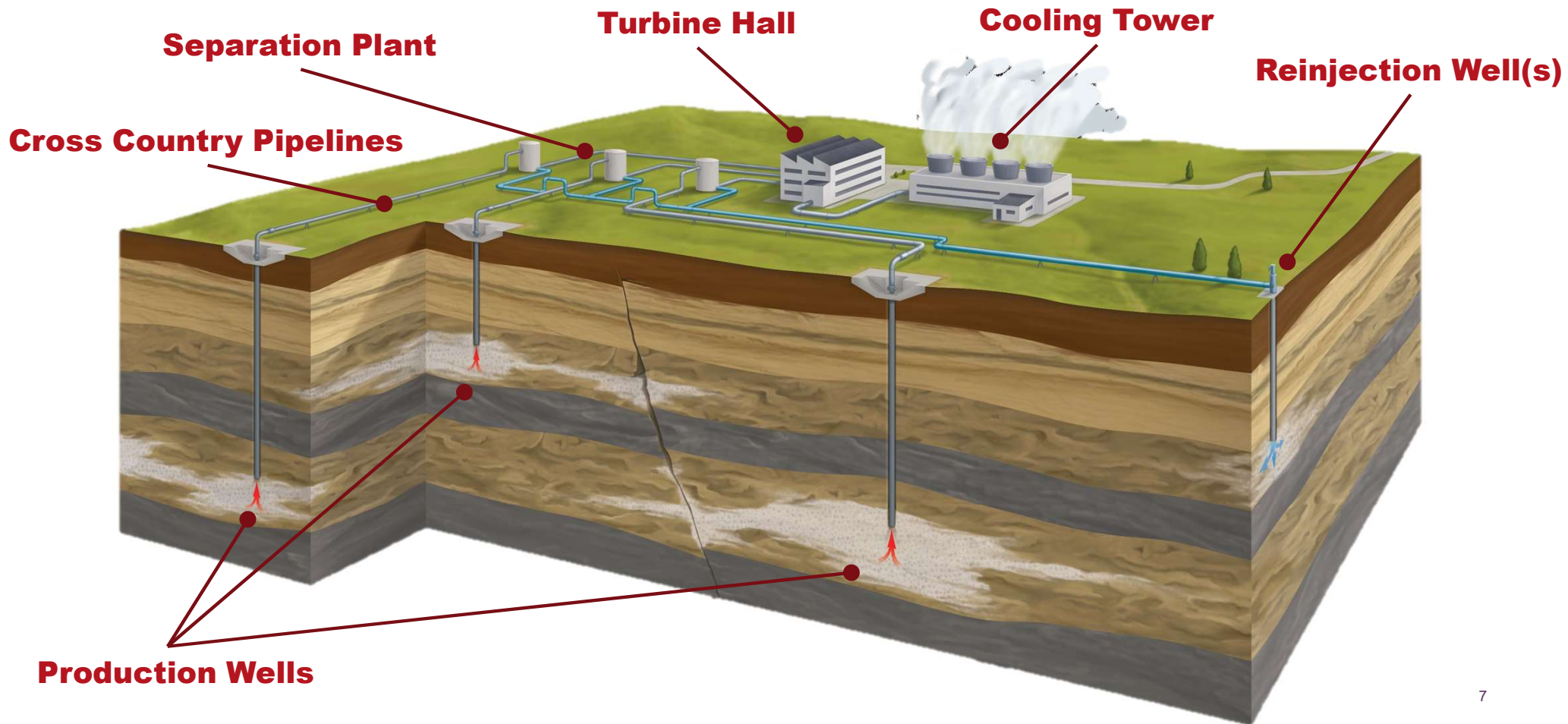
Tauhara

- . Te Huka now operates as our first net zero geothermal power station - eliminating up to 10,000t/yr of carbon dioxide and hydrogen sulphide emissions, while also reducing noise from the power plant.**
- . We are inspired and committed by making tangible progress in a low carbon energy future.**

Power Generation 101



Tauhara



Tauhara



Tauhara

Production Wells

**Cross
Country
Pipelines**

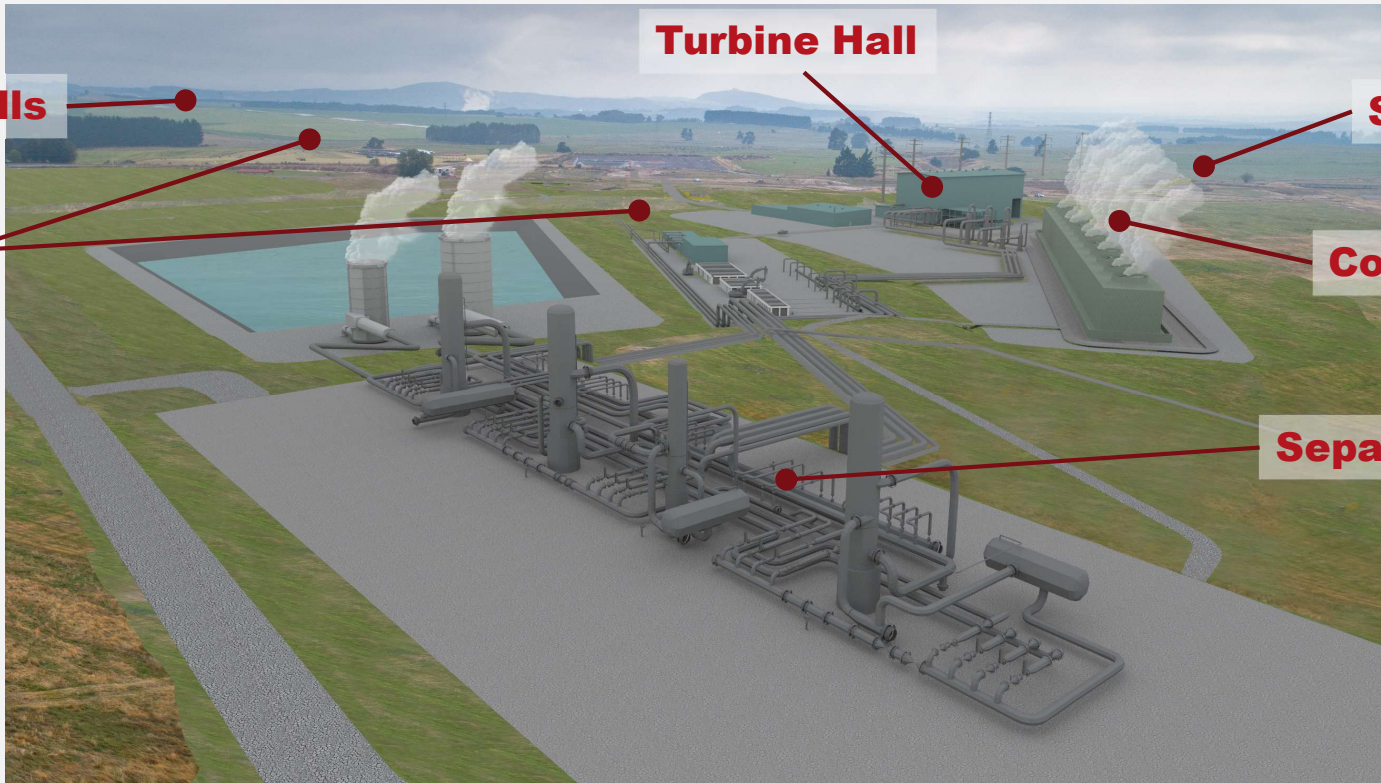
**Reinjection
Wells**

Turbine Hall

Switchyard

Cooling Tower

Separation Plant



Our unique relationship with tangata whenua



Tauhara

Contact Energy acknowledges the tangata whenua of these lands and have developed a positive and respectful relationship with Ngati Tuwharetoa and Tauhara hapu.

There are Tauhara Hapu Representatives on the project who are part of the team. Matiu and Jimmy support wellbeing through the workforce and form part of the project Cultural Discovery Protocol.



Matiu Heperi Northcroft



Whakaeke James Ritete

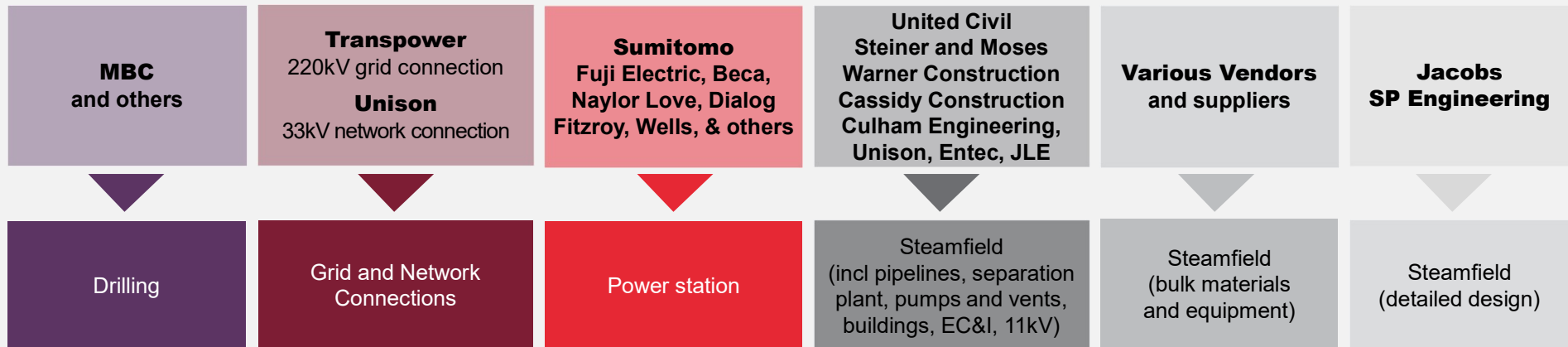
Contractors we're working with



Tauhara

There are different project fronts relative to the various scopes of work

Various sub-contractors are working under these contracted parties



Tauhara development key facts

New Zealand's premium renewable energy project, located within 10 km of Taupo supports a key regional economy

Environmental benefit



Low carbon resource

500,000 t_eCO₂ removed

Or 220,000 petrol cars off the road



Estimated MW (net export to grid)

174MW



Estimated plant generation

~1,420GWh

(3.5% of NZ's current generation)

Restoration of stormwater pond, gully systems and wetlands

- 55,000 Native trees planted

- Drains the 120 hectare power station site, screens the power station, steamfield and wellpads

Initiating wider geothermal field projects to **protect, enhance or restore areas of high ecological value,** including geothermal vegetation areas.



We aim to leave it, better than we found it



Tauhara development key facts

New Zealand's premium renewable energy project, located within 10 km of Taupo supports a key regional economy

Regional spending



Estimated forward project expenditure
\$780m



Total peak estimated construction jobs
620



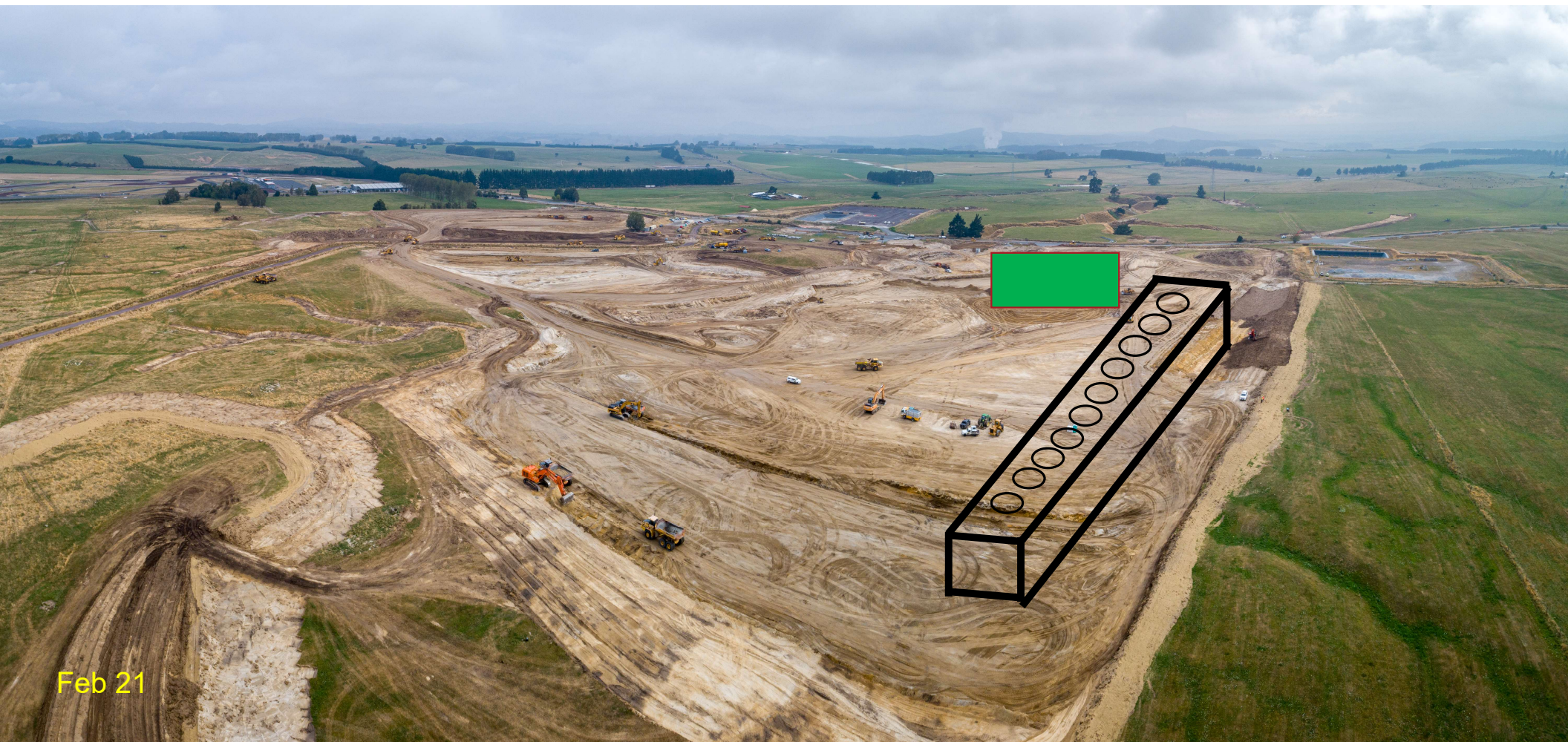
Investment into local economy
\$225m

The influx of construction staff benefit

Motels
Backpackers
B&Bs
Cafes
Restaurants
Pubs
Supermarkets
Tourism
Local shops







Feb 21



Feb 21



Feb 21





Feb 21









March 21











Oct 21



Feb 22







Feb 22





Feb 22













March 22









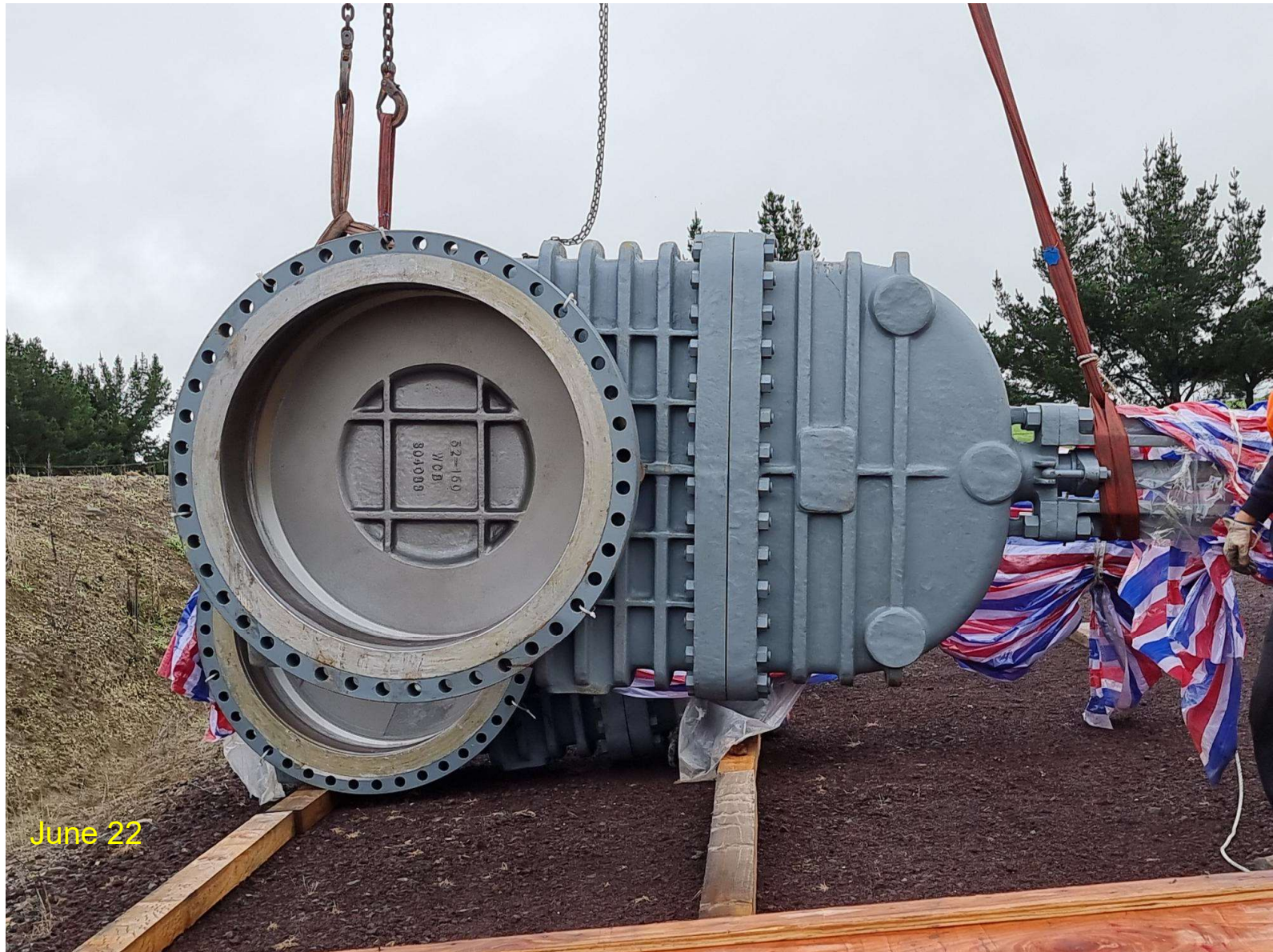
April 22





April 22

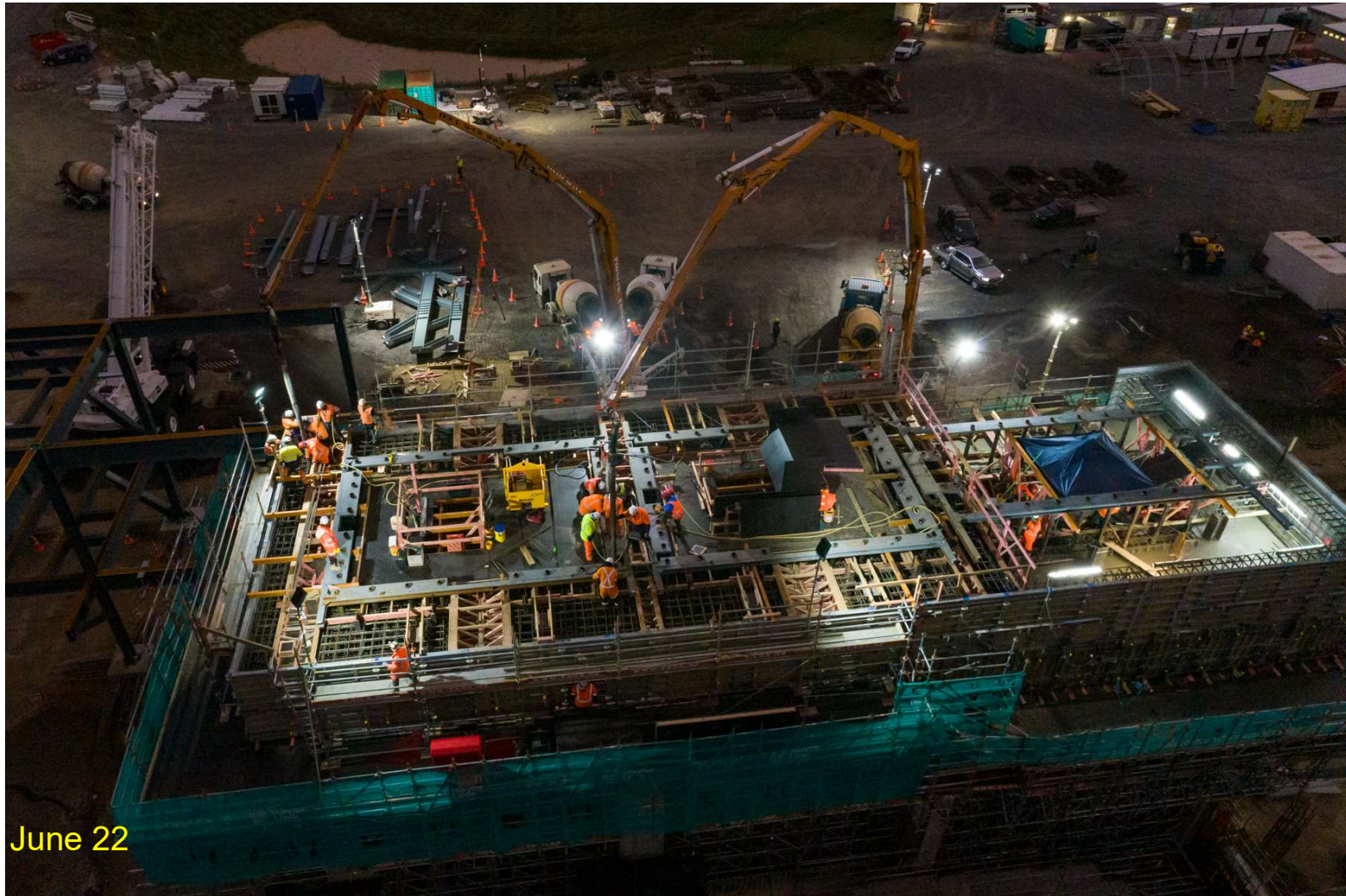


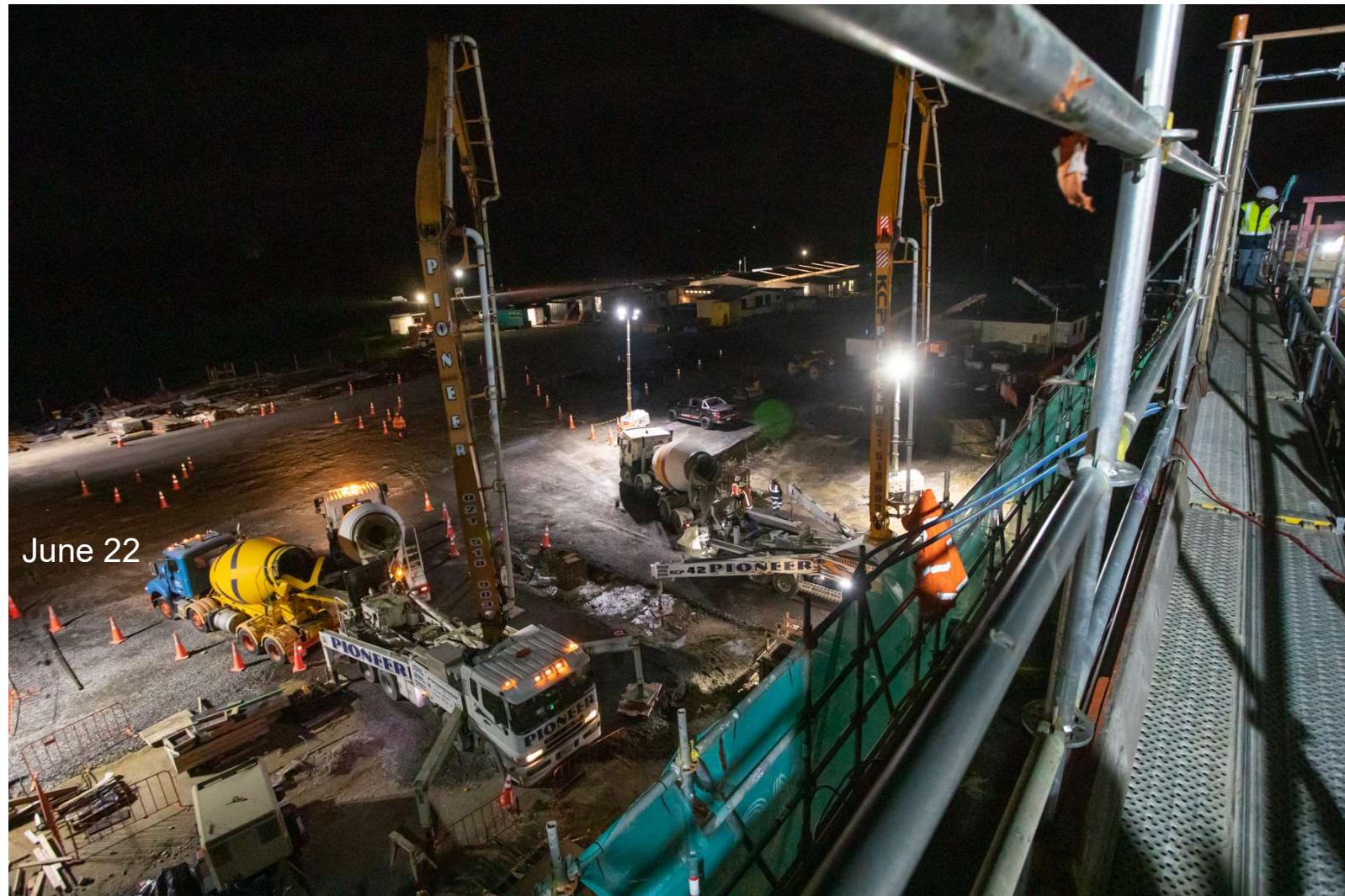


June 22

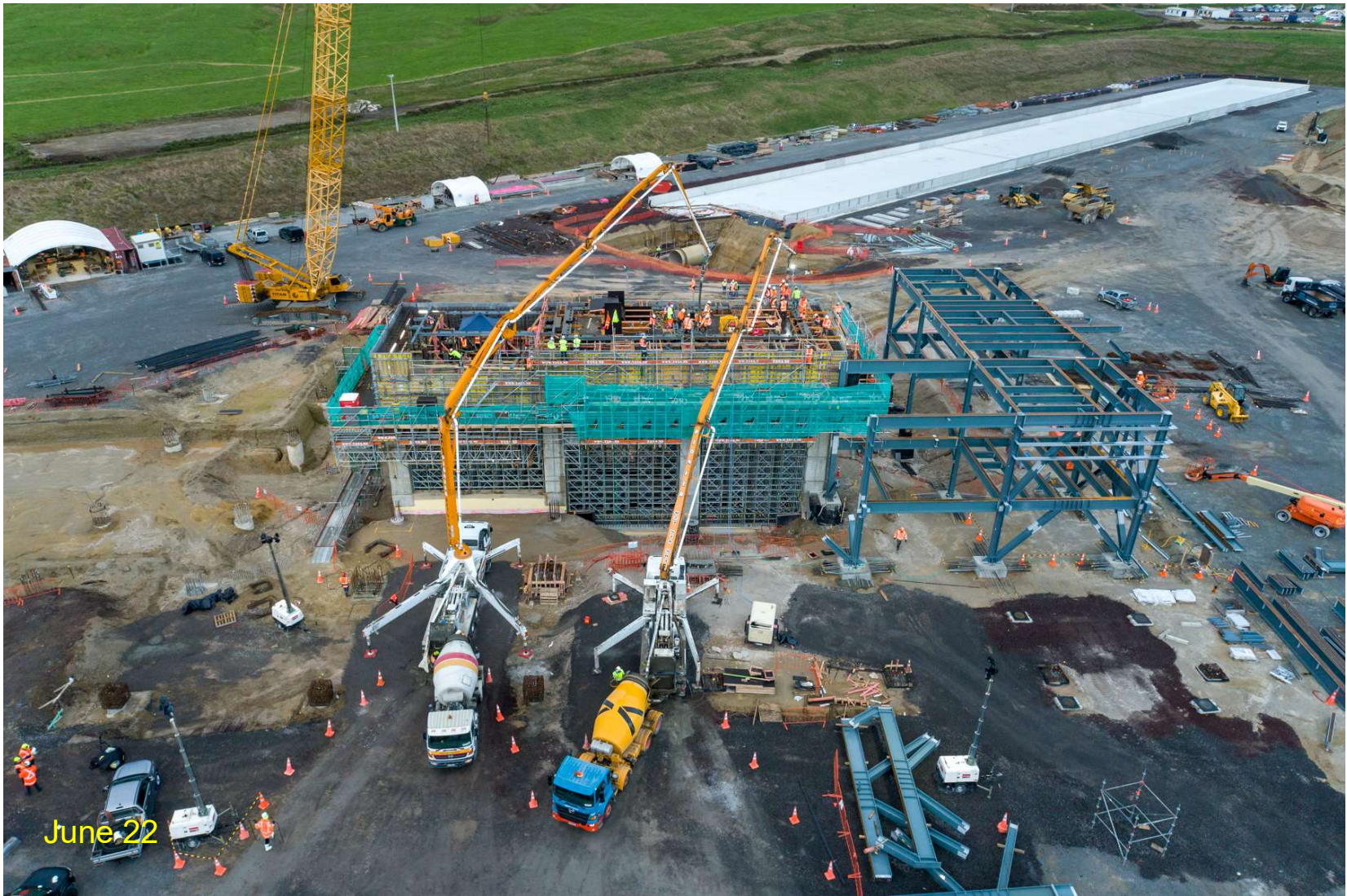








June 22







June 22





Aug 22









Sept 22











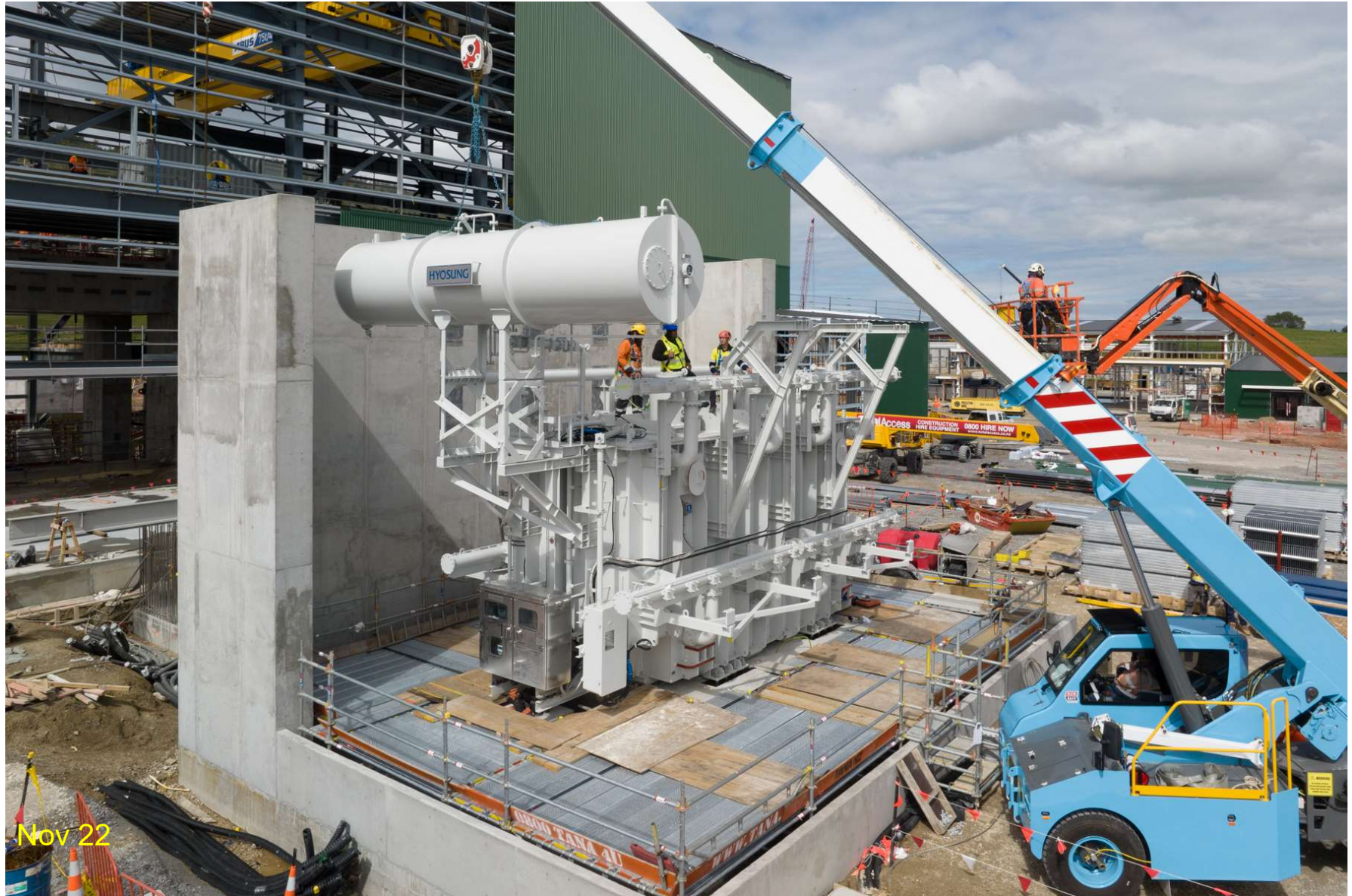






Nov 22









Nov 22







Nov 22

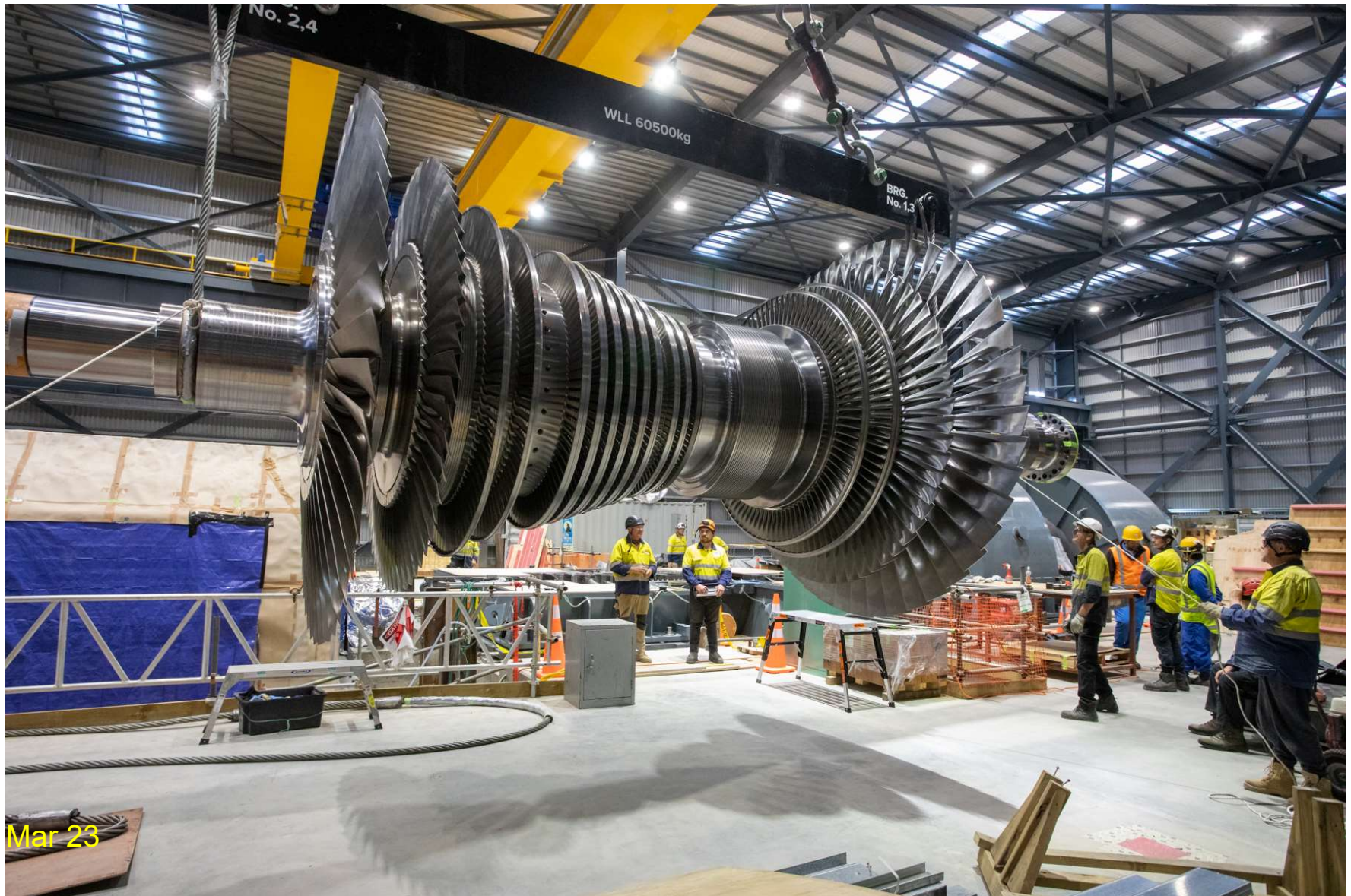


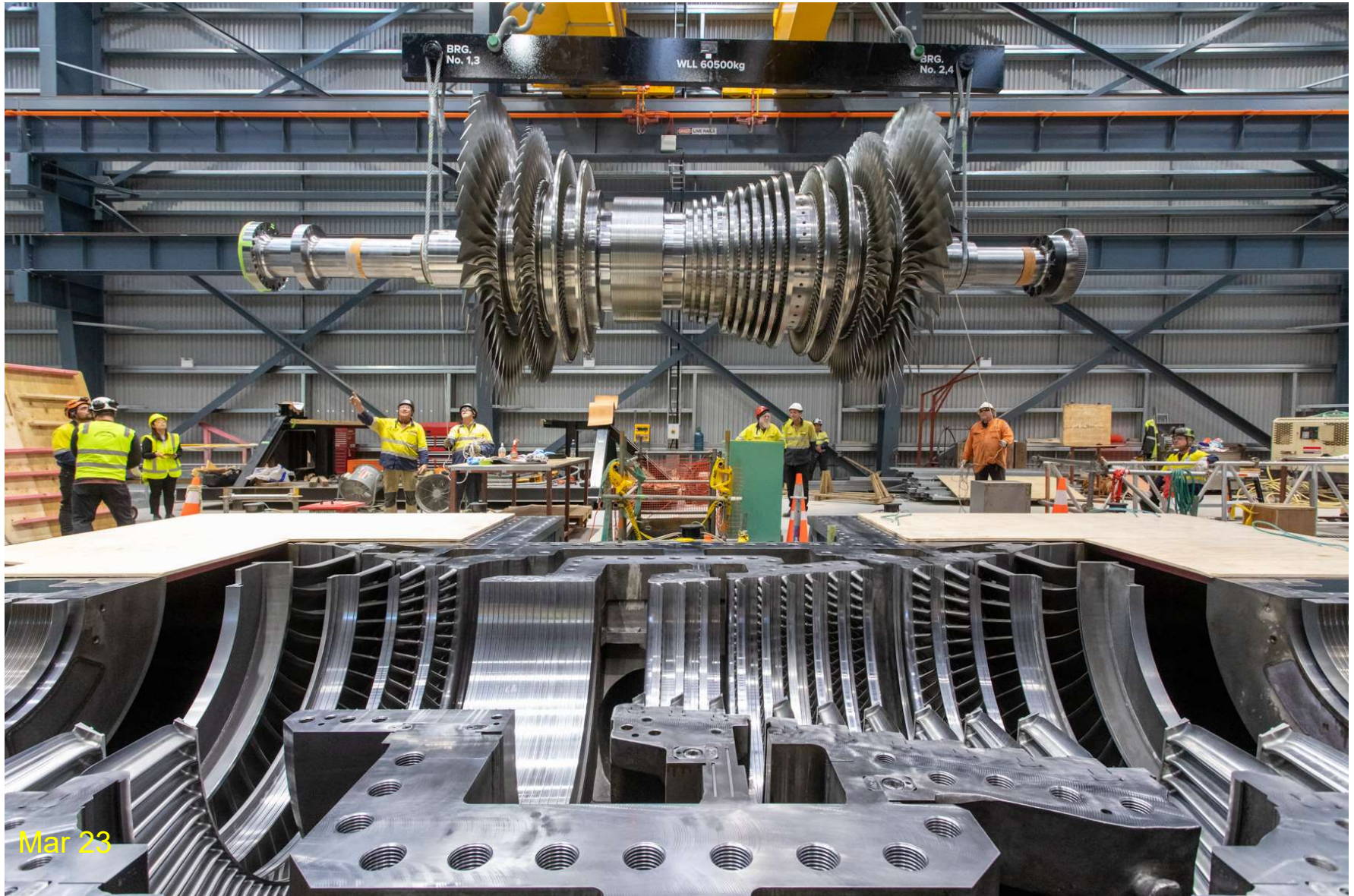






Feb 23





Mar 23



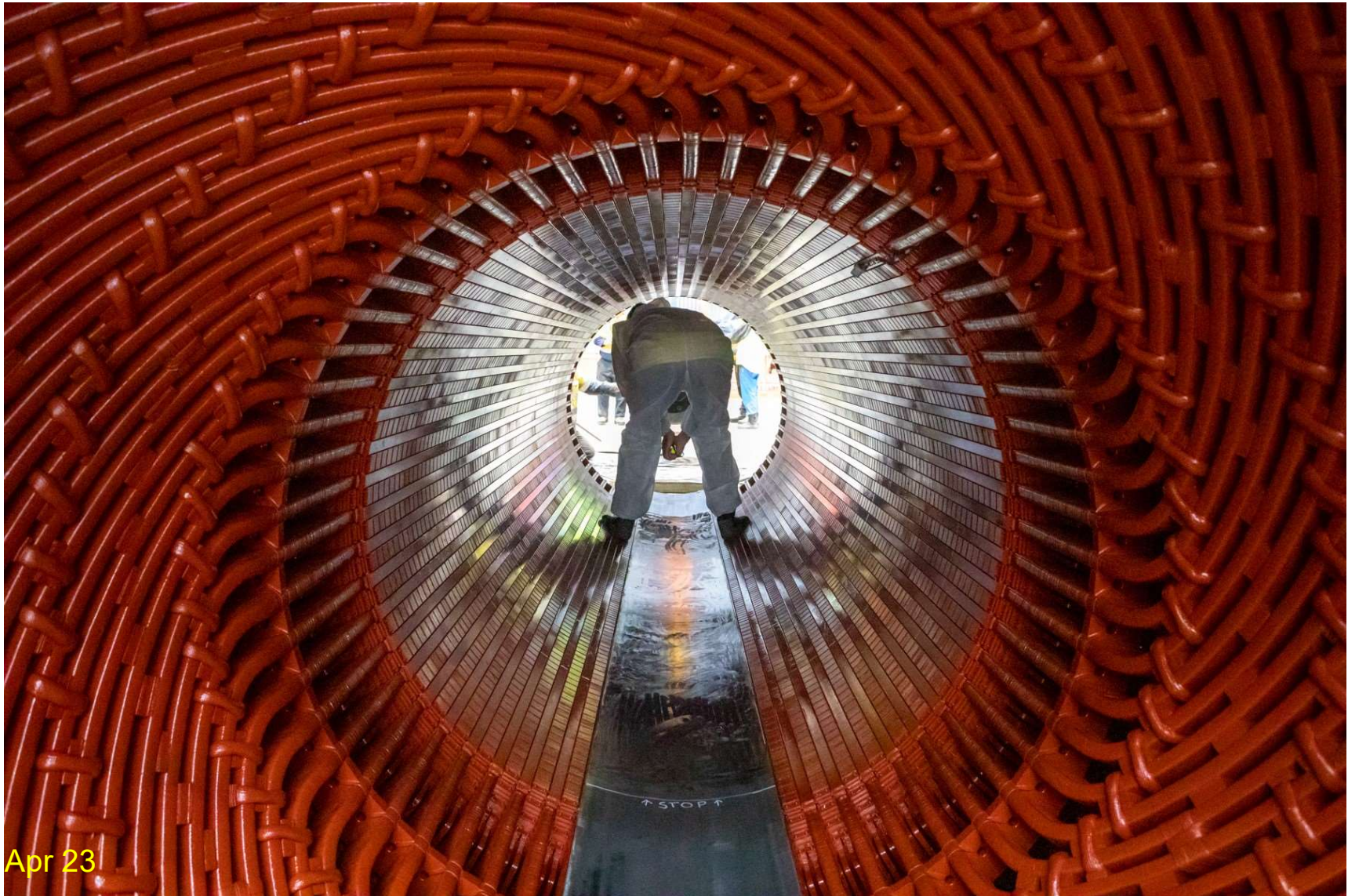






Mar 23





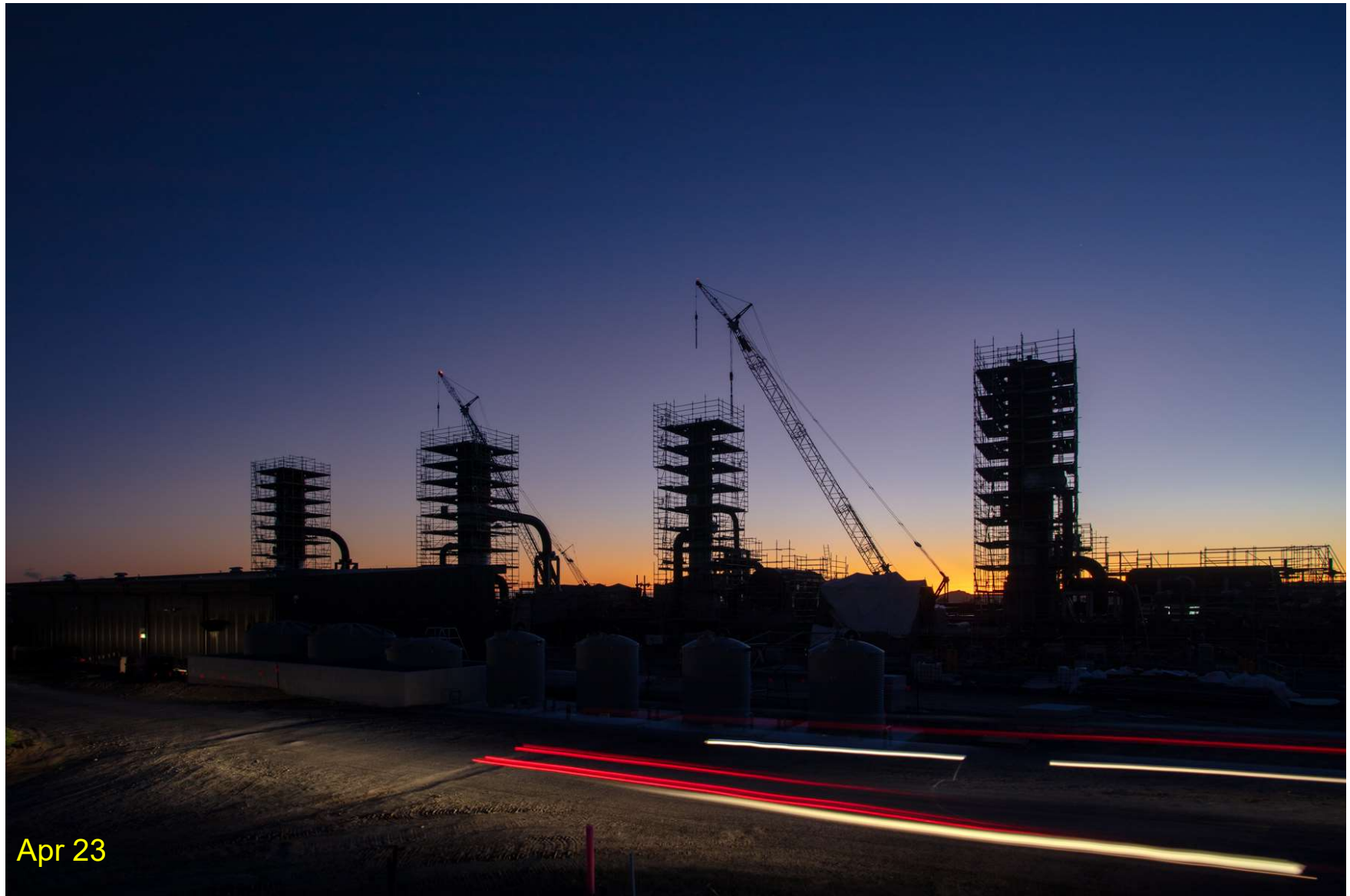
Apr 23







Apr 23



Apr 23











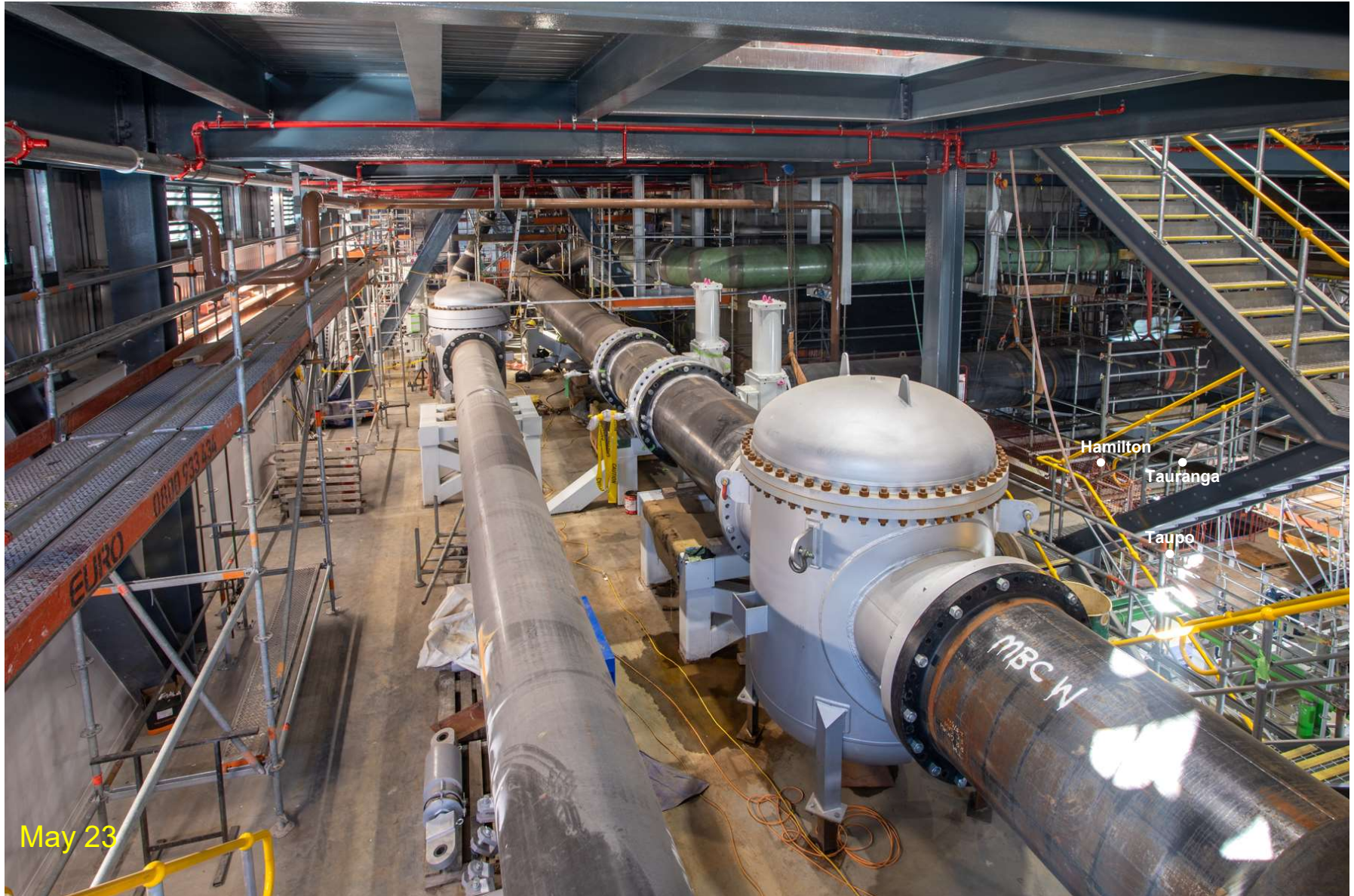


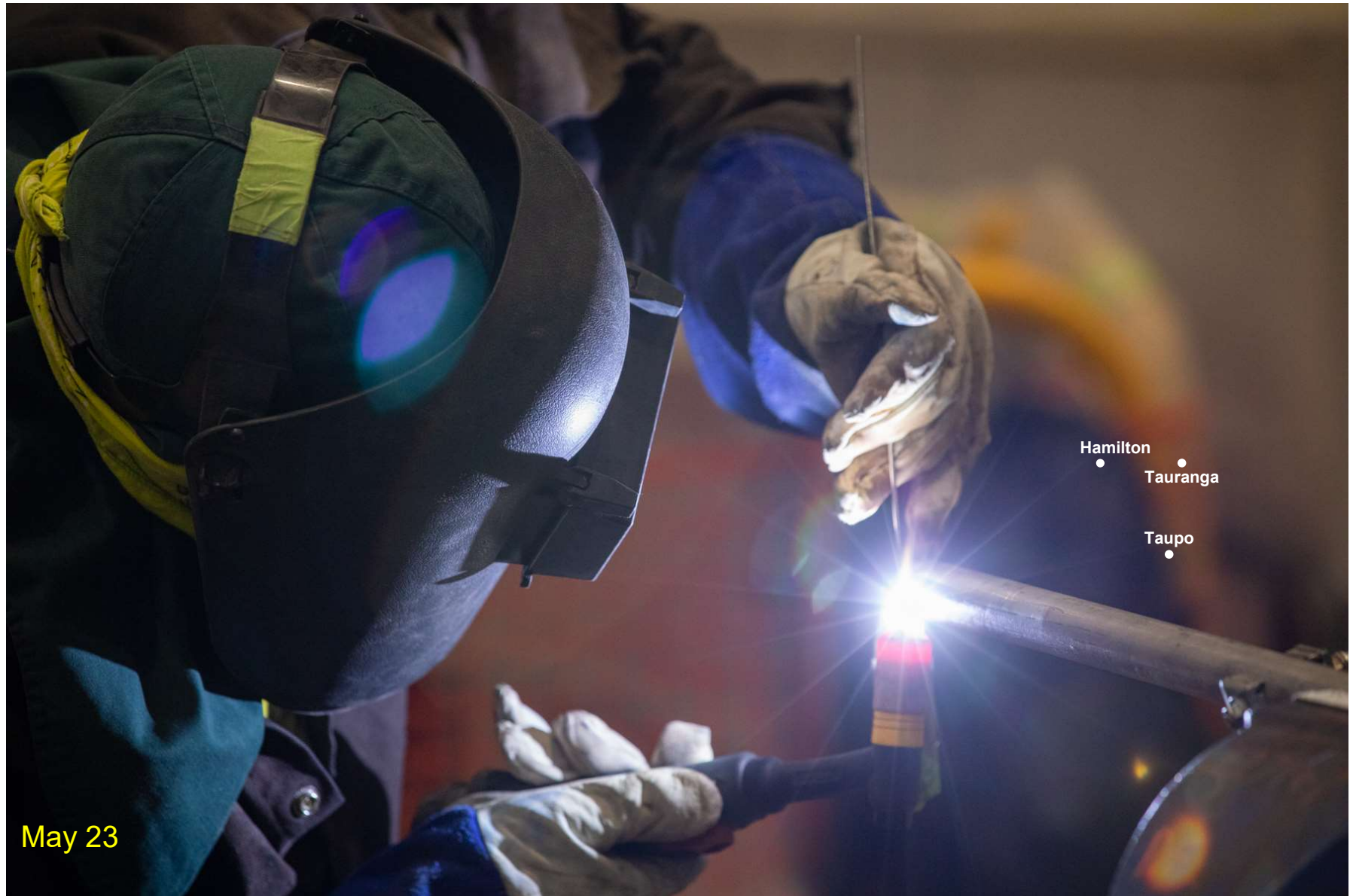












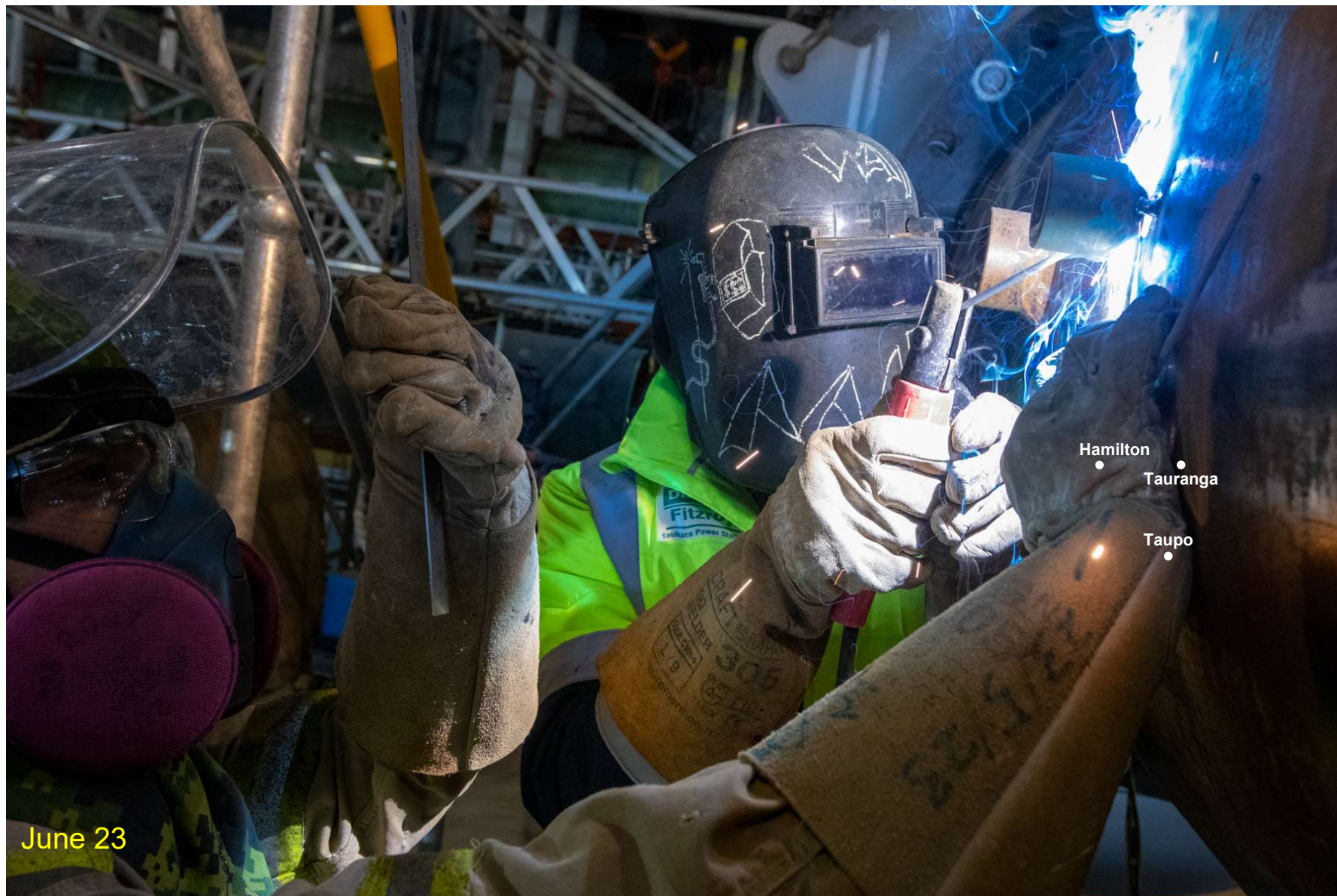








Hamilton
Tauranga
Taupo













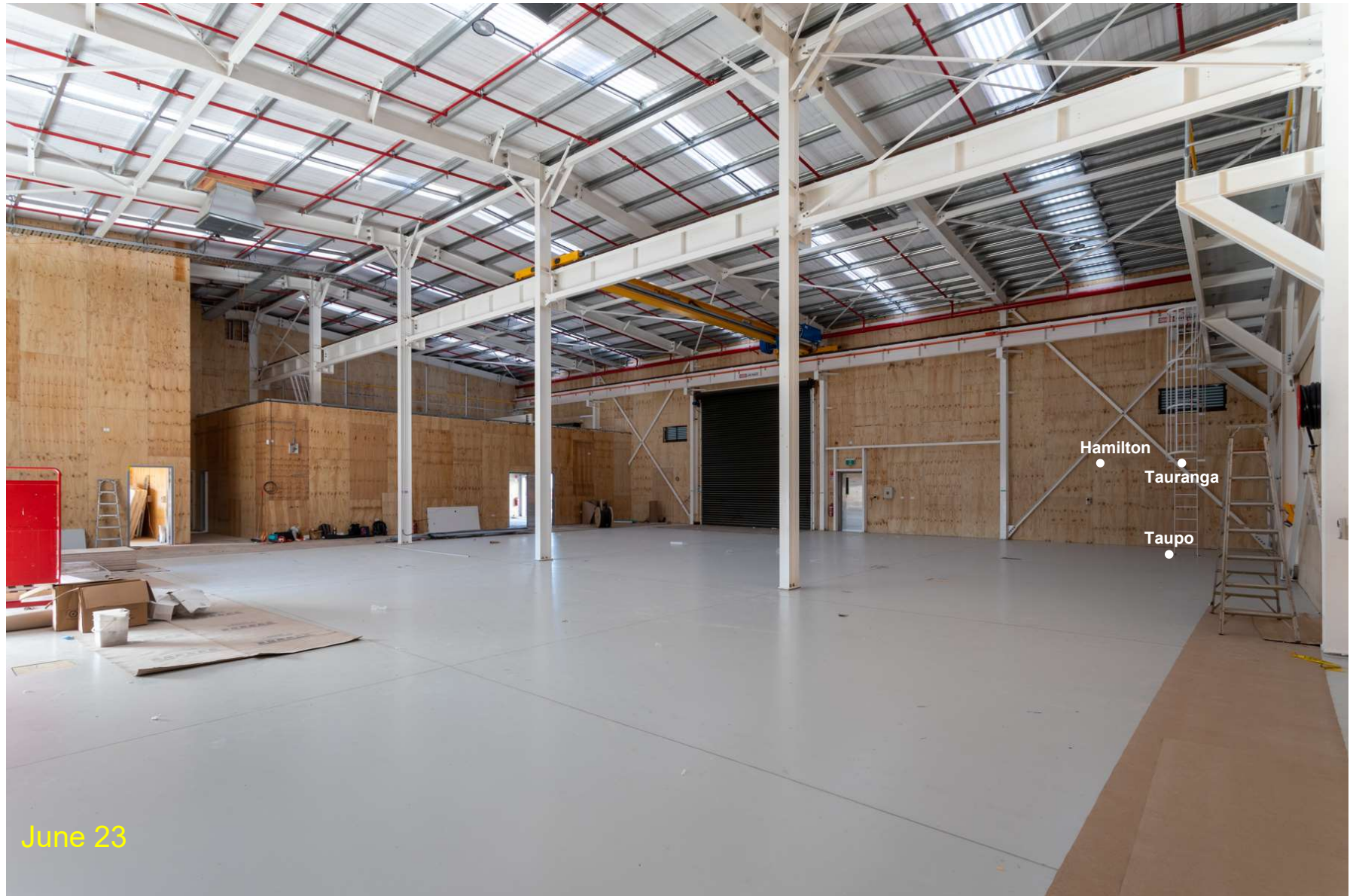
June 23

Hamilton
Tauranga
Taupo



June 23

Hamilton
Tauranga
Taupo





Hamilton
Tauranga
Taupo





Hamilton
Tauranga
Taupo

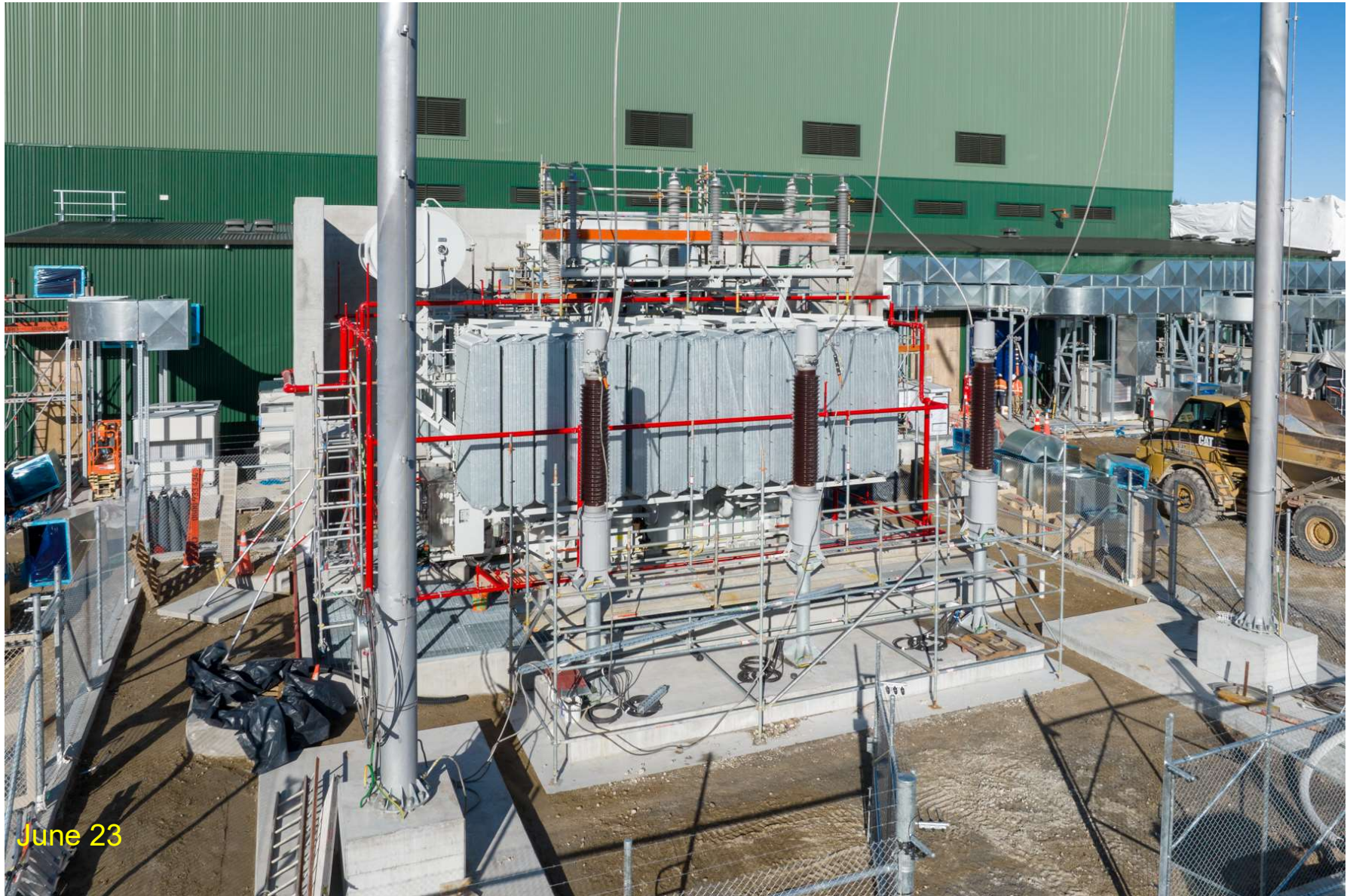


18 June 23



June 23









July 23







July 23



July 23







16 July 23



18 July 23

**This is a legacy project,
Transitioning NZ to Lower
Carbon Emission Electricity.**

**We are all very proud to be a
part of it!**

**Thanks for the opportunity to
share our journey with you.**



**And we'll see what tomorrow
brings**

