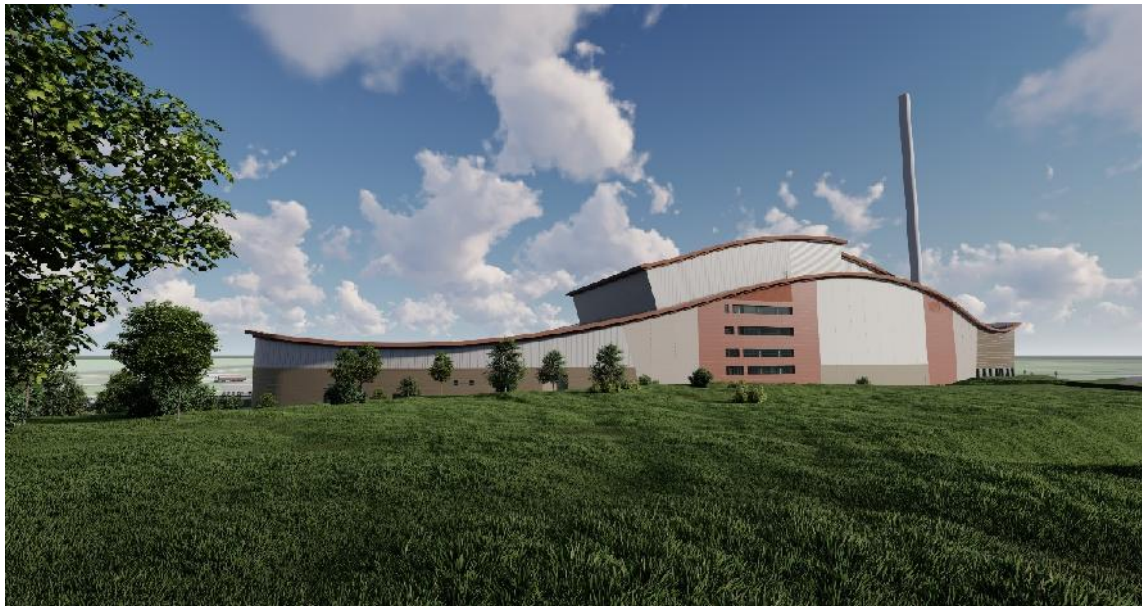


Newhurst ERF Local Liaison Committee Project Update July 2022

Newhurst Energy Recovery Facility

	Newhurst
Location	Shepshed, Leicestershire
Capacity (gross)	350 ktpy; ~42 MW
Financial Close	February 11, 2020
Engineer, Procure, Construct (EPC)	Hitachi Zosen INOVA (HZI)
Operator	Covanta
Scheduled Completion Date	Q2 2023



Construction (87% complete) progressing on time

Overall, the project is 90% complete

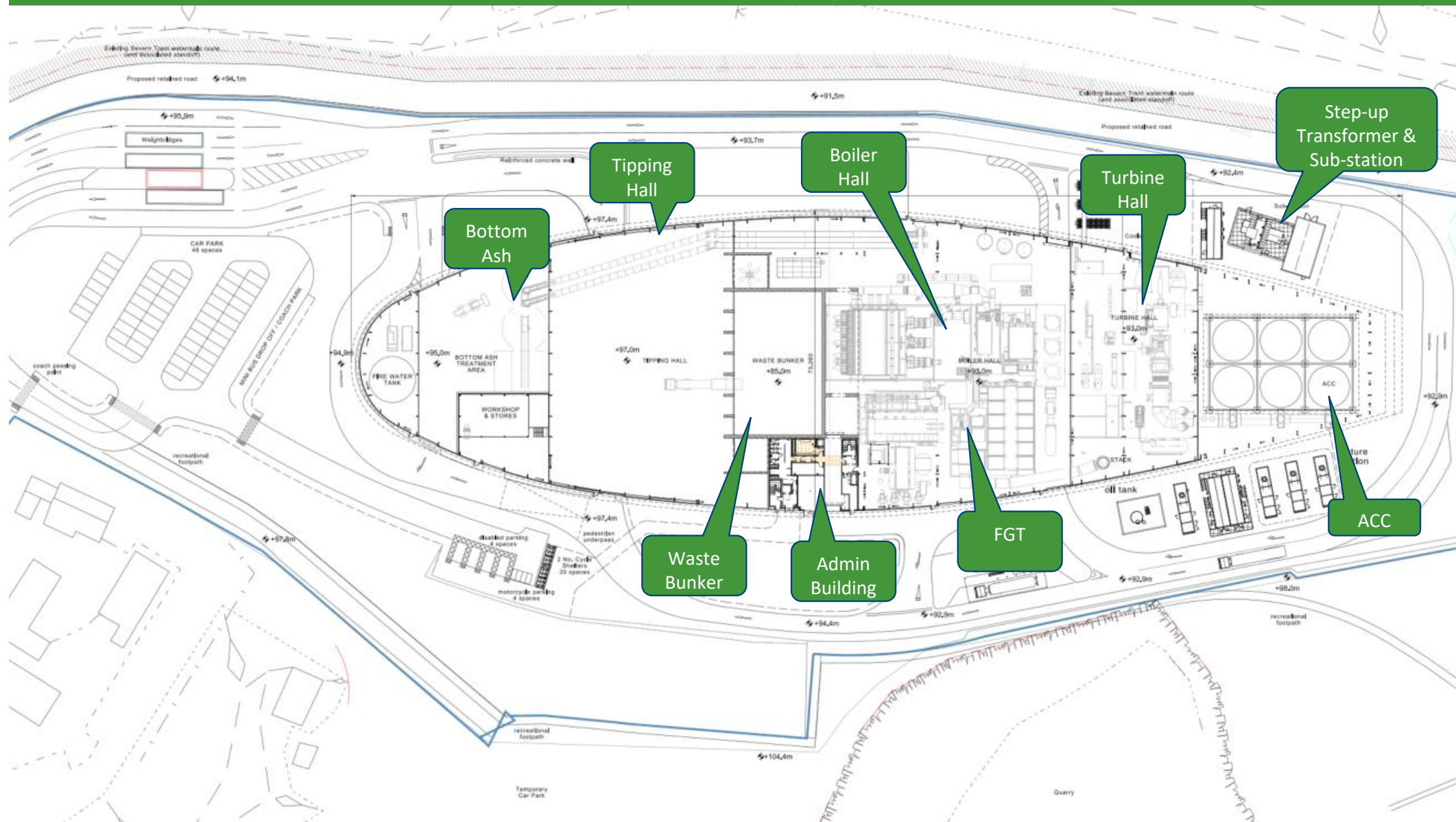
132kV Grid connection energised early June

30% of systems are mechanically and electrically complete and handed over to commissioning team ready for energisation

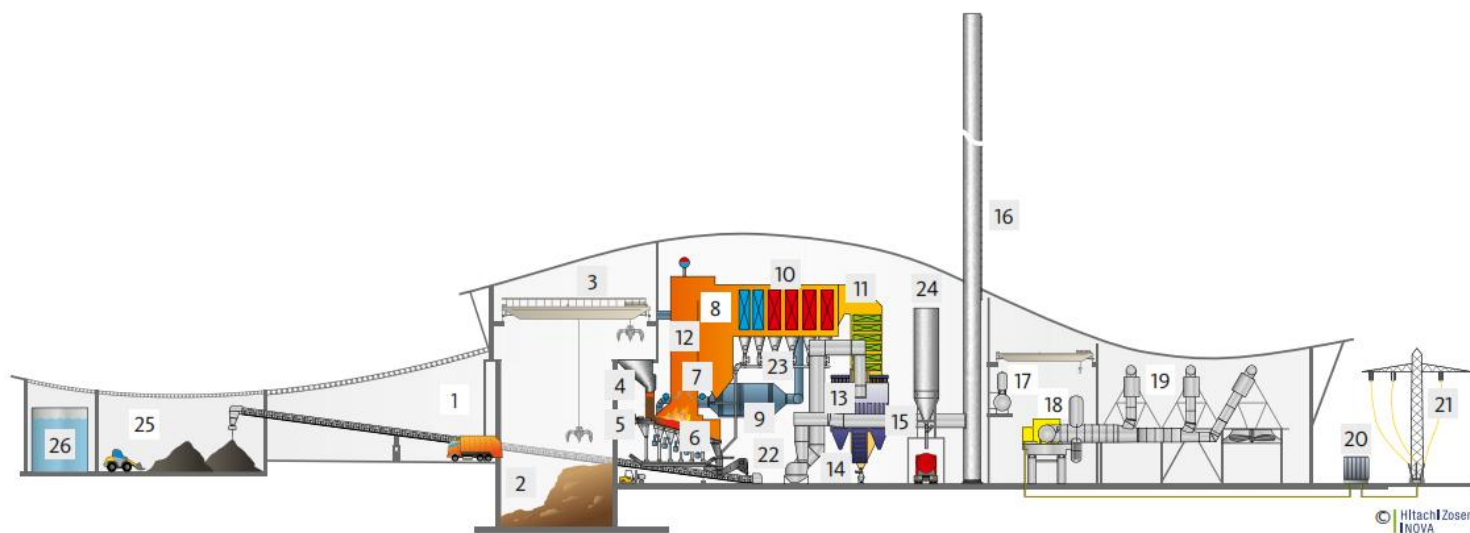
Operations & Maintenance Team have commenced their training

Around 400 operatives currently working on site.
Achieved 1 million project hours since last LTI.

General Arrangement



How does it work?



Waste Delivery and Storage

- 1 Delivery hall
- 2 Waste bunker
- 3 Waste crane

Combustion and Boiler

- 4 Feed hopper
- 5 Ram feeder
- 6 HZI Grate
- 7 Secondary air
- 8 Four-pass boiler
- 9 Primary air
- 10 Superheater
- 11 Economiser

Flue Gas Treatment

- 12 SNCR DyNOR®
- 13 Fabric filter
- 14 Induced draught fan
- 15 Flue gas duct
- 16 Stack

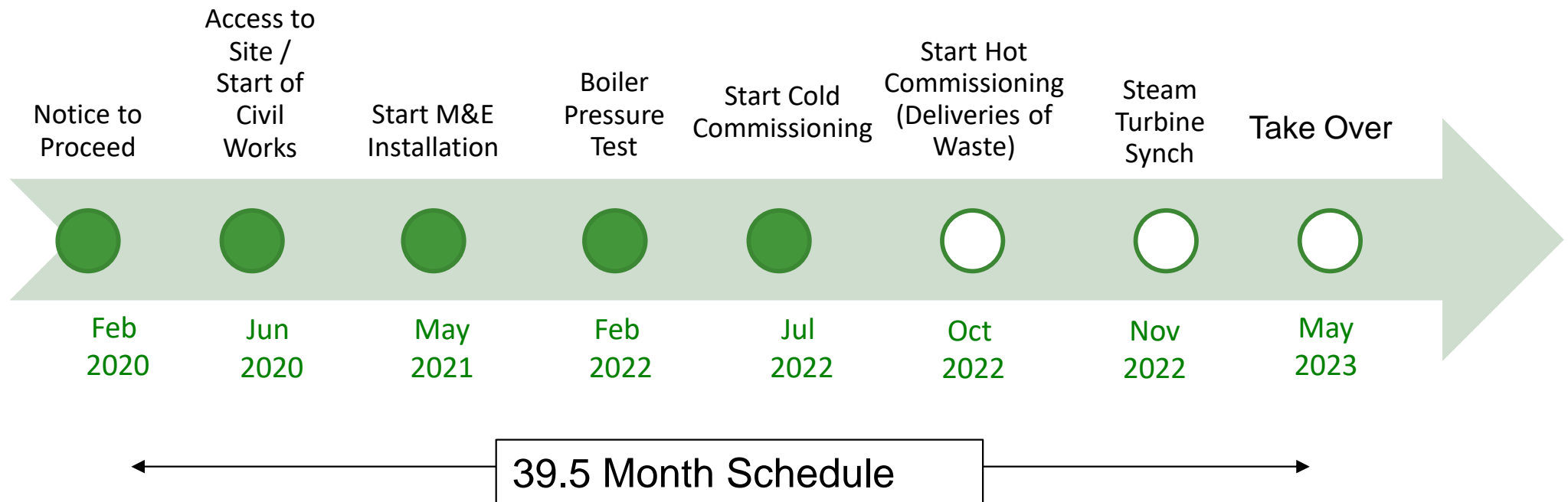
Energy Recovery

- 17 Feed water tank
- 18 Steam turbine
- 19 Air cooled condenser
- 20 Transformer
- 21 Electrical power distribution

Residue Handling and Treatment

- 22 Bottom ash extractor
- 23 Boiler ash discharge
- 24 Residue silos
- 25 Bottom ash area
- 26 Fire water tank

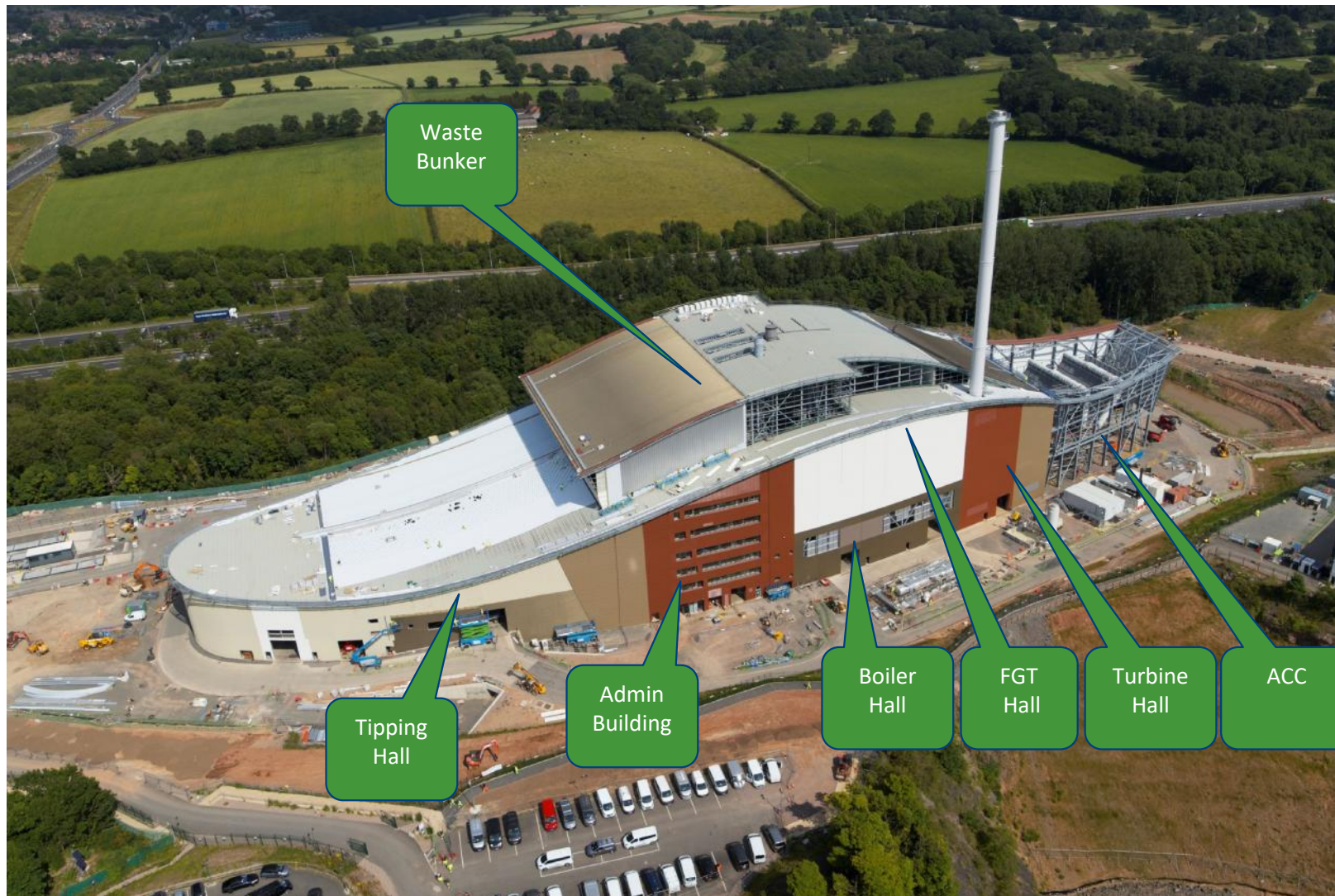
Project Timeline



April 2022



July 2022



Progress Photos – July 2022



View looking north

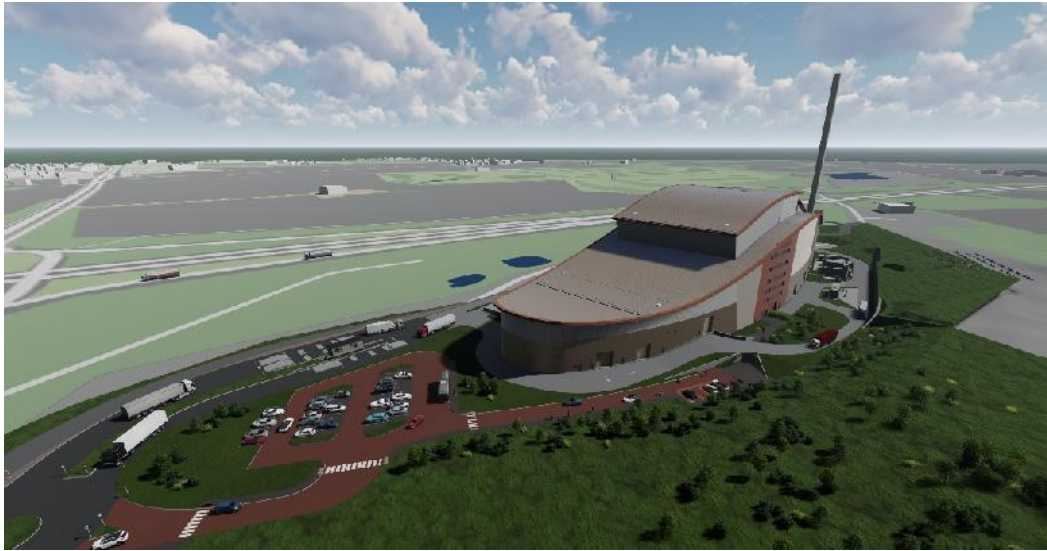


View looking south-east

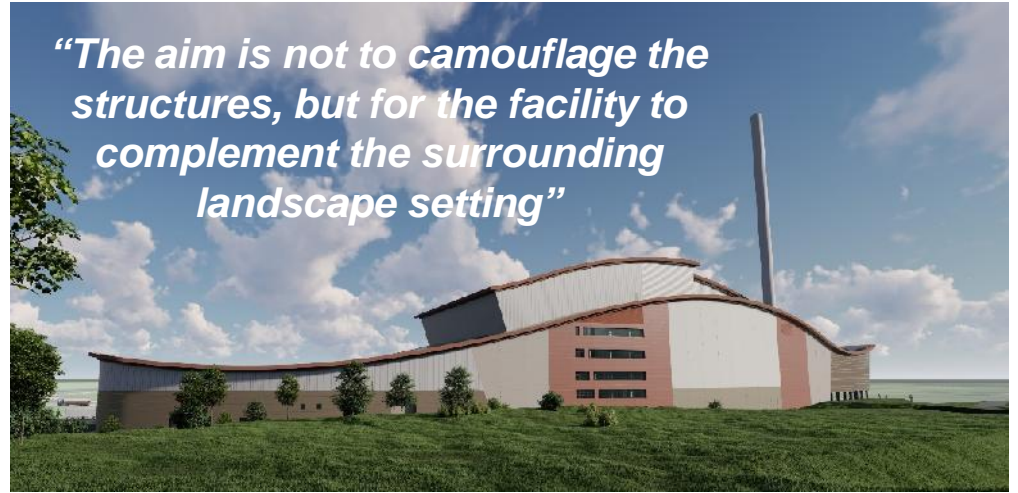


View looking north-west

What will it look like when it is built?



“The aim is not to camouflage the structures, but for the facility to complement the surrounding landscape setting”



“The building is designed to develop a synergy within the context of undulating land, and rolling topography with its belts of mature woodland and exposed areas of rock and earth”



Planned vs Reality



Planned vs Reality

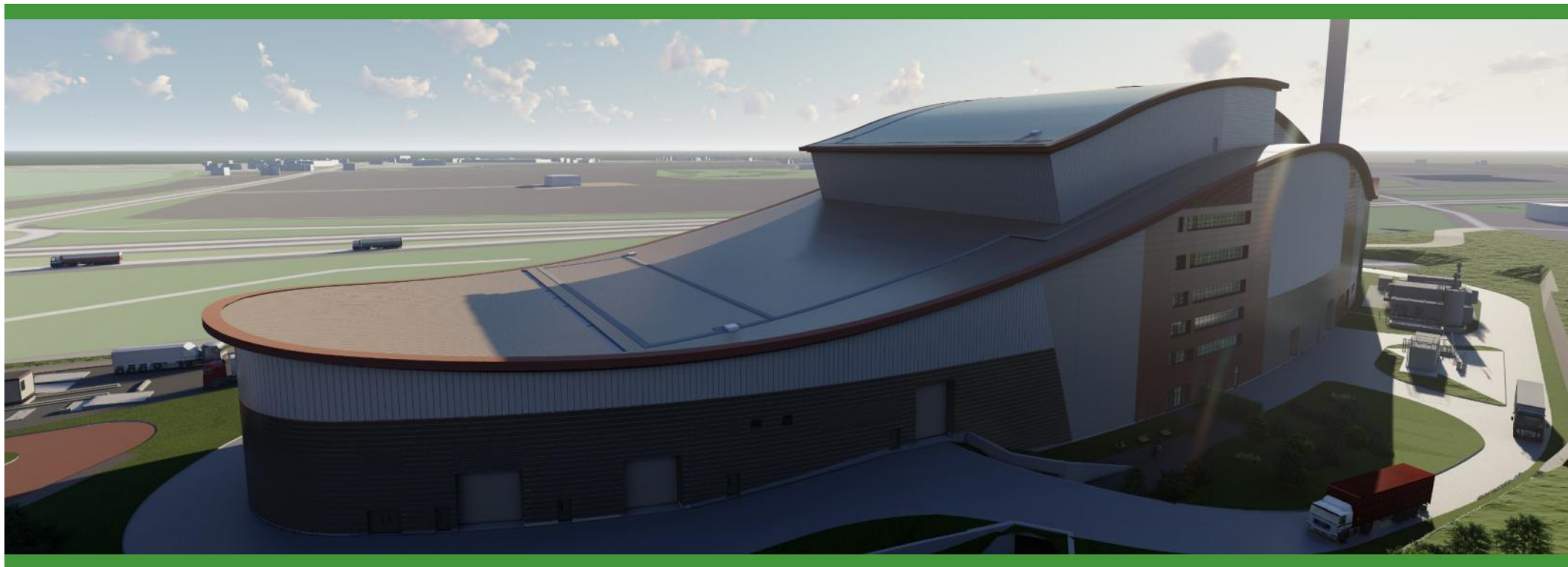


Construction Progress over last 3 months

- Erection of the Building Envelope continued including steelwork and cladding.
- M&E Contractors completed installation of the Combustion equipment, Flue Gas Treatment and Water Steam Cycle equipment.
- Electrical and Piping subcontractors continued with installation.
- Installation of the Turbine Generator continued.
- Energisation of the 132kV grid connection.
- Commissioning Team have mobilised on site.
- Operations & Maintenance Team have commenced their training.

3 Month Lookahead

- Cladding of the Building Envelope will continue.
 - Electrical and Piping subcontractors will complete installation.
 - Installation of the Turbine Generator will be completed.
 - Landscaping continues.
 - Cold commissioning activities will commence.
 - Steam Blowing activities planned for September.
-
- ***Any questions?***



Newhurst ERF Local Liaison Committee Permitting Update July 2022

Environmental Permit Pre-Commissioning Conditions

Condition	Summary of pre-operational condition	Status / Responsibility
PO1	Prior to commencement of commissioning, submit Environment Management System for approval by EA.	CEL has issued report to EA in April 2022. Pending approval.
PO2	Prior to commencement of commissioning, submit report describing options for heat utilisation including CHP and district heating.	CEL has issued report in May 2022.
PO3	Prior to commencement of commissioning, submit protocol for sampling of incinerator bottom ash for approval by EA.	CEL has issued report to EA in April 2022. Pending approval.
PO4	At least 4 months prior to the commencement of commissioning submit commissioning plan for approval by EA.	CEL has issued report to EA in May 2022. Pending approval.
PO5	No later than one month after completion of the final design submit Computational Fluid Dynamics (CFD) report to EA demonstrating achievement of 850°C for 2 seconds in the combustion chamber/ furnace.	Approved by EA. Closed

Environmental Permit Pre-Commissioning Conditions

PO6	At least 3 months before the commencement of commissioning for EA approval a methodology to demonstrate 850° / 2s residence time in furnace.	CEL requested extension of time to prepare this methodology. Expected to submitted in July.
PO7	Submit to the EA for approval, confirmation of which option will be implemented, including details of the incinerator technology configuration and a review of the air dispersion modelling.	Approved by EA. Closed.
PO8	Prior to the commencement of commissioning submit a written report to the EA for approval, commissioning plan and monitoring procedure for the odour abatement system.	Currently under review by CEL. Submission to EA – expected August 2022.
PO9	During commissioning, carry out tests to demonstrate whether the furnace combustion air will provide the required air flows to ensure that negative pressure is achieved throughout the reception hall. Demonstrate whether air is pulled through the reception hall and bunker area into the furnace and activated carbon filter odour abatement system with dead spots minimised.	EPC Contractor to carry out tests during commissioning and prepare report. Expected December 2022.
PO10	At least 3 months prior to the commencement of commissioning, submit updated Fire Prevention Plan (FPP) to EA for approval.	CEL has issued report to EA in April 2022. Pending approval.

Environmental Permit Pre-Commissioning Conditions

PO11	Prior to the commencement of commissioning, submit to the EA for approval an updated Noise Impact Assessment (NIA) to reflect the final, designed plant.	CEL has issued report to EA in June 2022. Pending approval.
PO12	Prior to the commencement of commissioning, submit to the EA for approval the waste acceptance procedure to be used at the site.	CEL has issued report to EA in April 2022. Pending approval.
PO13	Prior to the commencement of commissioning, submit to EA for approval a protocol for monitoring soil and groundwater.	CEL has issued report to EA in June 2022. Pending approval.