Medworth EfW CHP Facility Order:
SI 2024 No.230

Kanadevia INOVA

Requirement 2 Detailed Design: Work No.1,1A, 2A and 2B the EfW CHP Facility

(part discharge)

June 2025

Revision 1.0
Document ref: CP3_R02

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1. Introduction

1.1 Background

1.1.1 Medworth CHP Limited (the Developer) has secured a Development Consent Order (the Order)[1] to construct, operate and maintain an Energy from Waste (EfW) Combined Heat and Power (CHP) Facility on the industrial estate, Algores Way, Wisbech, Cambridgeshire. Together with associated Grid Connection, CHP Connection, Access Improvements, Water Connections, Temporary Construction Compound (TCC), and an Acoustic Fence, these works are the Authorised Development.

1.1.2 The Authorised Development will recover useful energy in the form of electricity and steam from over half a million tonnes of non-recyclable (residual), non-hazardous municipal, commercial and industrial waste each year. The Authorised Development has a generating capacity of over 50 megawatts and the electricity will be exported to the grid. The Authorised Development also has the capability to export steam and electricity to users on the surrounding industrial estate.

1.2 Purpose of this document

1.2.1 The Environmental Statement (ES) accompanying the application for the Authorised Development assessed a set of design parameters and principles. These design parameters and principles are secured under the Order at:

- Schedule 13 (documents and plans to be certified); and
- Schedule 14 (maximum and minimum design parameters).

1.2.2 Based on the approved design parameters and principles and prior to commencement of construction of the relevant Work No(s), Order Requirement 2 requires the Developer to submit detailed designs to the relevant planning authority[2] for approval. Requirement 2 states:

> *"(1) No part of Work Nos.* ***1, 1A,*** *1B,* ***2A, 2B****, 3, 6A, 6B, 7, 8, 9 or 10* ***may commence until details of the layout, scale and external appearance for that Work No. have been submitted to and approved by the relevant planning authority*** *[emphasis added].*
>
> *(2) The details submitted for approval under sub-paragraph (1) must be substantially in accordance with the design principles set out in Appendix A of the design and access statement.*
>
> *(3) Where a requirement requires the authorised development to be constructed in accordance with details approved by the relevant planning authority, the approved details are taken to include any amendments subsequently approved by the relevant planning authority.*

[1] Statutory Instrument 2024 No. 230 https://www.legislation.gov.uk/uksi/2024/230/schedule/1/made
[2] For the EfW CHP Facility Site, the relevant planning authority is Cambridgeshire County Council

(4) The authorised development must be carried out in accordance with the approved details."

1.2.3 Since the Order was Made in February 2024, the Developer and their EPC Contractor, Kanadevia Inova (KVI), in consultation with the relevant planning authority, Cambridgeshire County Council (CCC), carried out a detailed design review ('Design Update 01' (DU01)) of Work Nos.1,1A,1B, 2A and 2B. This review sought to rationalise the design of the EfW CHP Facility Site within the approved limits of deviation, thereby reducing the use of materials, visual impacts, and costs. The review confirmed that the proposed design updates are within the scope of the Order, did not introduce any consequential effects to the project mitigation, and would not cause any new or materially different environmental effects. The Developer's DU01 proposals and notification from CCC that they are within the scope of the Order are provided in **Appendix A**.

1.2.4 Based on the agreement secured for DU01, the Developer and KVI refined the detailed design and concluded the architectural treatment of the buildings and structures of Work Nos.1,1A, 2A and 2B (Design Update 02 (DU02)). Consequently, this document encloses the DU02 drawings and accompanying review, submitted to discharge Requirement 2 of the Order for Work Nos.1,1A, 2A and 2B; the EfW CHP Facility Site.

1.3 Structure of this document

- **Section 2**: Drawing Schedule
- **Section 3**: Summary of design updates since DU01
- **Section 4:** Design Parameters Review
- **Section 5:** Design Principles Review
- **Section 6**: Environmental effects review

2. Drawing Schedule

2.1.1 **Table 2.1** lists the DU02 detailed drawings submitted to discharge the pre-commencement of development conditions of Order Requirement 2 for Work No.1, 1A, 2A and 2B. **Appendix B** contains the detailed drawings.

Table 2.1: Drawing schedule

Document/drawing no.	Revision no.	Title	Date
LH020-WA-51007100	0.0	Facility Site Layout	30/05/2025
LH020-WA-51007131	0.0	Elevation 1 (East)	30/05/2025
LH020-WA-51007132	0.0	Elevation 2 (North)	30/05/2025
LH020-WA-51007133	0.0	Elevation 3 (West)	30/05/2025
LH020-WA-51007134	0.0	Elevation 4 (South)	30/05/2025
LH020-WA-51007135	0.0	Air Cooled Condenser, Turbine Hall, Water Treatment Plant and Ancillary Building Elevations Elevation 5 & 6 (West & East)	30/05/2025
LH020-WA-51007140	0.0	Gatehouse Layout & Elevations	30/05/2025
LH020-WA-51007170	0.0	Facility Horizontal Limits of Deviation	30/05/2025
LH020-WA-51007171	0.0	Facility Vertical Limits of Deviation	30/05/2025
LA010-DOCO-11000101	2.0	Vehicle Access to Staff/Visitor Car Park	20/06/2025

3. Summary of design updates since DU01

3.1 Introduction

3.1.1 An indicative EfW CHP Facility Site Layout was presented in the Environmental Statement (**Figure 3.6: EfW CHP Facility Site Layout (Volume 6.3) [APP-049]**). Since the Order was Made and DU01 agreed, the Developer and KVI have refined the detailed design. This process, DU02, enabled KVI to incorporate "ID" identifiers on the indicative design within the overall limits of deviation for the Authorised Development, and in part, reduce the main building's volume and heights. Consequently, ID references for some individual buildings, plant and equipment used for the indicative design may not be included on the updated drawings and new description identifiers added.

3.2 Retention of the Algores Way vehicle access and rearrangement of the staff and visitor car park

3.2.1 Since DU01 was agreed, the standalone administration building (Work No.1B) is not required. Consequently, the existing vehicle access bell-mouth to the EfW CHP Facility Site can be retained, therefore, implementation of Work No.4B (Algores Way Access Improvements) is no longer necessary.

3.2.2 The existing bell-mouth (to the waste transfer station) was designed to accommodate HGV, LGV and cars. **ES Chapter 6: Traffic and Transport Volume 6.2 [APP- 033]** confirmed the existing access was suitable for the type of vehicles expected during construction of the EfW CHP Facility. Therefore, its retention for the operational phase, where it will only be used for staff and visitor access is considered suitable and without the need for modification, see **Drawing LA010-DOCO-11000101, Vehicle Access to Staff/Visitor Car Park**.

3.2.3 Consistent with the **Outline Construction Traffic Management Plan (Volume 6.4 Appendix 6A) [REP1-011]**, pre- and post-construction condition survey of the existing bell-mouth will be undertaken and surfacing made good where necessary.

3.2.4 Since Work No.4B (Algores Way Access Improvements) is not required to be constructed, the use of the existing bell-mouth has the added benefits of:

- Reduced disturbance to adjacent businesses on Algores Way;
- Reduction of waste/materials to be generated/used;
- Reduction in associated vehicle movements and emissions; and
- Incorporation of a bus parking bay within the rearranged staff and visitor car park (ID27); to assist educational visits.

3.3 Updates to the switching compound (ID21) and private wire compound (ID23)

3.3.1 Rather than a standalone 132kV switching compound (ID21) on **Figure 3.6, ES Chapter 3: Description of the Proposed Development Figures, Volume 6.3 [APP-049]),** drawing on their experience of constructing EfW facilities in the UK, KVI will incorporate components of the switching compound (ID21) within the private wire switching compound (ID23). By combining these components of the Authorised Development within a modular system (see **Drawing 51007135, Air Cooled Condenser, Turbine Hall, Water Treatment Plant and Ancillary Building Elevations**) their combined footprint is reduced, they remain within the limits of deviation (see **drawing 51007170, EfW CHP Facility Horizontal Limits of Deviation**) and screened by adjacent buildings and structures.

3.3.2 This approach maintains the ability to export electricity to the grid and private wire customers, and releases approximately 300m^2 of land previously allocated for the 132kV switching compound for additional landscaping and biodiversity enhancement, see **Drawing 51007160, Landscaping and Ecology Strategy**[3].

3.4 Rainwater harvesting

3.4.1 Rather than limit rainwater harvesting to the roof above the staff and visitor facilities and its use within toilets (proposed in DU01), KVI will incorporate additional roof areas on the EfW CHP Facility building to increase rainwater capture. The captured water will be used for IBA quenching, thereby reduce overall potable water use at the EfW CHP Facility.

3.5 Photovoltaic solar panels

3.5.1 Generating approximately 50kW (0.05MW) of electricity the photovoltaic panels will be positioned on the workshop and stores building roof (ID19).

3.6 External architectural updates

External appearance

3.6.1 Since securing agreement for DU01, the Developer and KVI have continued to apply the design principles to DU02. For example, the external colour palette remains consistent with those secured under the Order and stated within **Appendix A** of the **Design and Access Statement (Volume 7.5) [APP-096]**.

3.6.2 The use of a kinetic cladding system has been considered as part of DU02. Approximately 200,000 individual tiles are required to achieve the desired upper-level banding on the boiler house. These tiles would have been used to over-clad the primary façade. A review of the construction methodology required to install the tiles indicated potential health, safety and logistical risks whilst operational risks

[3] separately submitted under Order Requirements 4

were also identified as being substantial. As such the developer does not propose to take this this option forward.

3.6.3 To provide visual interest on the boiler house, a revised banding feature has been incorporated into the façade design. This element reflects the building's primary colour palette and has been developed with a subtle, randomised patterning that creates visual texture and variation, particularly effective when viewed from a distance.

3.6.4 The integrated staff and visitor facility adopts the primary colour of the boiler house, while darker grey banding is used to break up the mass of the façade. This adds character to the entrance, creating a more considered and welcoming appearance that visually ties the two architectural elements together.

3.6.5 In addition to preserving the architectural intent, the DU02 solution enhances access for cleaning and maintenance, supporting the building's long-term functionality and upkeep.

3.6.6 **Figure 2.1** to **Figure 2.2** are illustrative images displaying the visual interest at the site entrances. Relevant elevational drawings are listed in **Table 2.1**.

Figure 2.4: Illustrative view Main Site Entrance - New Bridge Lane

Figure 2.5: Illustrative view Staff and Visitors Entrance – Algores Way

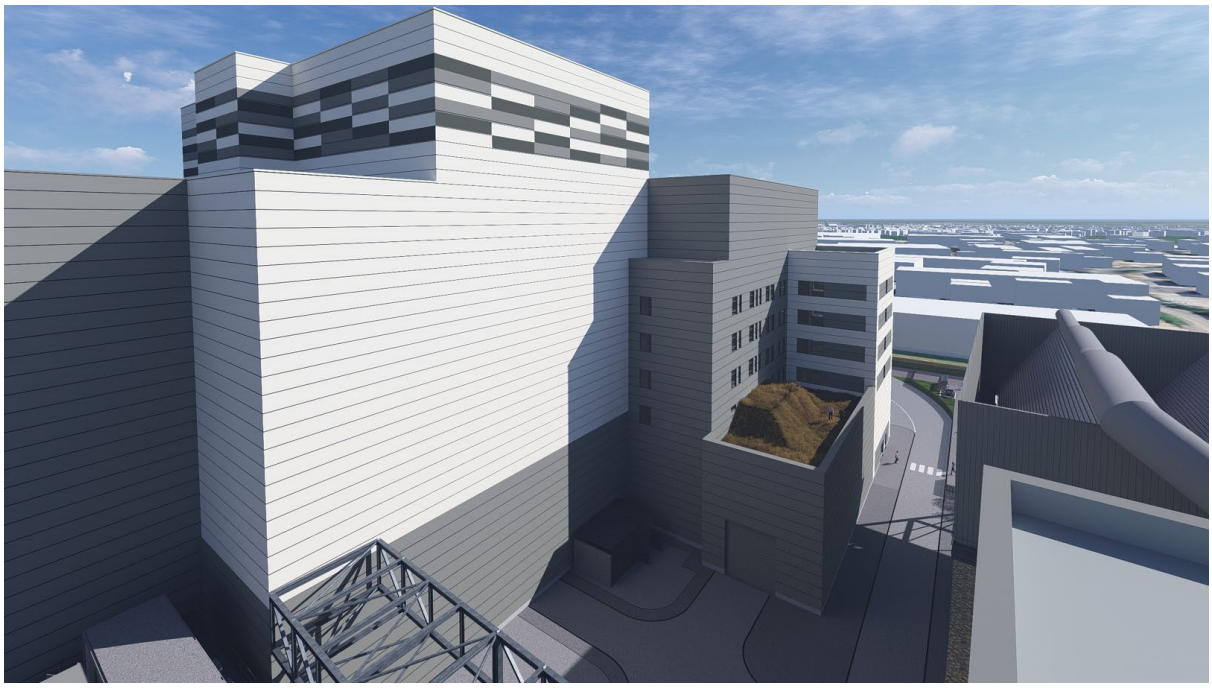
Windows ribbons

3.6.7 At DU01, windows were incorporated to allow natural lighting into staff, visitor, and community areas. To minimise visual impact, the design retains the concept of punched windows in keeping with the original proposal. A refined composition of darker grey banding articulates the façade, subtly breaking down its mass and scale. This treatment evokes the rhythm and continuity of a ribbon window aesthetic, without resorting to additional fenestration or the use of opaque panels that merely simulate glazing.

Louvres and vents

3.6.8 Louvres and vents are shown in their currently known locations. To eliminate the need for additional high-level louvres, roof-mounted natural ventilation units have been used. These units are designed to sit below parapet level to ensure they remain visually unobtrusive, see **Figure 2.6**. To address odour control requirements within the tipping hall, a high-efficiency carbon filtration system has been integrated. In order to remain compliant with the vertical limits of deviation, the design incorporates a discreet horizontal ductwork system. This duct terminates with a carefully sloped outlet detail to prevent rainwater ingress, see **Drawing 51007133, Elevation 3 West**.

Figure 2.6: Staff and Visitor Facility including brown roof viewing area



3.7 General updates

3.7.1 Other general DU02 updates include:

- Building/structure positions and orientations updated within the limits of deviation;
- In connection with Work Nos. 1,1A,2A and 2B, associated development, such as, utility apparatus, including kiosks.
- Vehicle and pedestrian access arrangements;
- Fencing alignment;
- Surface water attenuation ponds[4]; and
- Landscaping[5].

[4] Full details of the surface water management proposals for the EfW CHP Facility Site will be submitted pursuant to Order Requirement 8 (Drainage Strategy) for Work Nos.1, 1A, 2A and 2B, document ref CP3_R08_Draiange Strategy.
[5] Full details of the landscaping proposals for the EfW CHP Facility Site will be submitted pursuant to Order Requirement 4 (Biodiversity and Landscape Mitigation) for Work Nos.1, 1A, 2A and 2B, document ref CP3_R08_Draiange Strategy.

4. Design parameters review

4.1 Vertical limits of deviation

4.1.1 The vertical design parameter limits for the EfW CHP Facility buildings and structures are stated in Schedule 14 of the Order and the certified plans within Schedule 13, specifically elevational drawings **Figures 3.7(i)** to **(iv), Figure 3.8**, and **Figure 3.15** of the **ES Chapter 3: Description of the Proposed Development Figures (Volume 6.3) [APP-049]**.

4.1.2 The DU01 proposals secured a reduction in height of the waste reception building, boiler house, turbine building, ACC and chimneys and a reduction in volume of the boiler house and APC building, turbine building and ACC.

4.1.3 Incorporating the rearrangements highlighted above, the Developer and KVI have concluded the DU02 review. The EfW CHP Facility remains within the vertical limits of deviation, see **Drawing 51007171, Facility Vertical Limits of Deviation**.

4.2 Horizontal limits of deviation

4.2.1 The horizontal design parameter limits for the EfW CHP Facility buildings and structures are stated in Schedule 14 of the Order and the certified plans within Schedule 13, specifically the **Works Plans, Revision 4 (Volume 2.3) [REP7-003]** and **Figure 3.16** of the **ES Chapter 3: Description of the Proposed Development Figures (Volume 6.3) [APP-049]**.

4.2.2 The DU01 proposals included some horizontal movement of the position of the boiler house, APC building and ID fans, however these were within the horizontal limits of deviation.

4.2.3 Incorporating the rearrangements highlighted above, the Developer and KVI have concluded their DU02 review. The final positions of the buildings and structures remain within the horizontal limits of deviation, see **Drawing 51007170, Facility Horizontal Limits of Deviation**.

4.3 Summary

4.3.1 At DU02, the site layout and elevations of the EfW CHP Facility for Works No.1, 1A, 2A and 2B remain within the Order's vertical and horizontal limits of deviation.

5. Design principles review

5.1.1 Schedule 13 of the Order includes, as a certified document, **Appendix A** of the **Design and Access Statement (Volume 7.5) [APP-096]** (reproduced in **Table 5.1**) and states the design principles for the EfW CHP Facility. The eleven design principles have been reviewed alongside the DU02 updates that are summarised in **Section 3**.

Table 5.1: EfW CHP Facility Design Principles

ID	Design principle	Status	Comment
DP01	Cladding colours and type will be designed to create cohesion across the various building elements.	No change	
DP02	A three coloured banding approach will be followed, using shades of grey that respond to the surrounding buildings on the industrial estate.	No change	
DP03	The three banded cladding approach will be designed to minimise the overall visual bulk of the buildings.	No change	
DP04	Lower-level building elevations will be darker grey to create the effect of a unifying plinth throughout the site.	No change	
DP05	Above the lower-level building elevations, there will be a gradation through a mid-grey for medium level building elevations to a light grey for the boiler house building.	Updated within the design principle	See **Section 3.6**
DP06	The detailed design of the EfW CHP Facility will consider the use of kinetic cladding to create additional visual interest on the	Updated within the design principle	See **Section 3.6**

ID	Design principle	Status	Comment
	higher parts of the EfW CHP Facility, most notably the boiler house building.		
DP07	Openings in the elevations of the EfW CHP Facility will be the minimum necessary to enable the proper function of the EfW CHP Facility.	No change	
DP08	Roof-mounted equipment will be minimised to that which is necessary for the proper function of the EfW CHP Facility and no equipment will extend beyond the maximum LoD relevant to that part of the Facility.	No change	
DP09	The EfW CHP Facility will achieve a BREEAM score of 'good' as a minimum.	No change	
DP10	The EfW CHP Facility building cladding will achieve a BRE Green Guide A+ Rating.	No change	
DP11	No advertisements will be placed on the EfW CHP Facility buildings. Signage will be consistent with the architectural context and appear uniform in terms of material, colour and geometry using the agreed colour palette and/or Applicant's corporate colours only.	No change	

Summary

5.1.2 The Developer and KVI have concluded their design principles review of DU02. The design principles secured under the Order are upheld.

6. Environmental effects review

6.1.1 **Section 4** and **Section 5** confirm the proposed design updates fall within the scope of the Order. For completeness DU02 is reviewed against the ES to identify if the changes remain within the scope of the ES or introduce consequential environmental effects to the project mitigation or materially differ from the conclusions set out in the ES. This environmental effects review, see **Table 6.1**, does not revisit matters examined at DU01, therefore, only considers the additional updates at DU02.

Table 6.1: ES review and conclusions

ES Chapter (Volume 6.2)	Within EIA parameters	Comment
1.Introduction **[APP-028]**	N/A	-
2.Alternatives **[APP-029]**	N/A	-
3.Description of the Proposed Development **[APP-030]**	Yes	All buildings and structures remain within the maximum and minimum design parameters applied for and secured by the Order.
4.Approch to the EIA **[APP-031]**	Yes	No changes to the EIA approach.
5.Legislation and Policy **[APP-032]**	Yes	Whilst the national policy statements have been adopted since the EIA was prepared, the changes made by the Secretary of State do not result in any changes to the conclusions of significance reported within the ES when read in conjunction with the design updates proposed.
6.Traffic and Transportation **[APP-033]**	Yes	Retention of the existing access off Algores Way negates the need to implement Work No.4B (Algores Way Access Improvements), therefore, would require fewer material deliveries than those assessed within **ES Chapter 6: Traffic and Transport**. Consequently, fewer HGV deliveries would be required during the construction and decommissioning phases. Although the proposed design updates would be beneficial in reducing the trip generation during the construction phase, in consideration of the Authorised Development in its entirety, these would not have any material impact on the anticipated traffic and

ES Chapter (Volume 6.2)	Within EIA parameters	Comment
		transport effects reported within the ES. The proposed design updates are therefore considered to be within the scope of the ES. The construction of the Authorised Development would continue to be subject to the **Outline Construction Traffic Management Plan Rev2 (CTMP) (Volume 6.4) [REP7-010]** approved as part of the Order, which seeks to minimise transport/traffic disruption where possible. Pursuant to Order Requirement 11,the detailed **CTMP** will be submitted for approval by the relevant planning authority prior to the commencement of Work No.1, 1A, 2A and 2B. Similarly, the **Outline Travel Plan (Volume 6.4) [APP-074]** will continue to be relevant and operable. In summary, DU02 will not alter the conclusions of the ES.
7.Noise and vibration **[APP-034]**	Yes	The design changes referenced in this document will not change the level of significance presented in **ES Chapter 7: Noise and Vibration**. Work No. 1, 1A, 2A and 2B will continue to be the subject of Order Requirement 19 (Noise Management) and an **Operational Noise Management Plan** will be submitted to the relevant planning authority for its approval before the date of commissioning. This plan will include a full/updated risk assessment of potential noise emissions, accounting for the major plant items and processes. It will detail the final noise control measures and consideration of BAT and this risk assessment will be undertaken following completion of the detailed design and plant selection. In summary, DU02 will not alter the conclusions of the ES.
8.Air Quality **[APP-035]**	Yes	As the construction of Work No.4B (Algores Way Access Improvements), is no longer required this would result in a reduced number of HGV trips and a consequential reduction in air quality emissions arising from vehicle movements over those assessed **within ES Chapter 8: Air Quality**. Therefore, the removal of Work No.4B would be beneficial but not significant. In summary, DU02 will not alter the conclusions of the ES.
9.Landscape and Visual **[APP-036]**	Yes	Since DU01, only minor updates to buildings and structure positions/heights/volumes have been introduced at DU02; these changes are within the maximum and minimum design parameters applied for and secured by the Order and assessed in **ES Chapter 9: Landscape and Visual (Volume 6.2) [APP-036]** and would not be of a scale that would materially alter the magnitude of change and consequent level/significance of effects for the landscape, townscape and visual receptors considered within the chapter. In summary, DU02 will not alter the conclusions of the ES.

ES Chapter (Volume 6.2)	Within EIA parameters	Comment
10.Historic Environment **[APP-037]**	Yes	The assessment of effects on the settings of heritage assets identified within the **ES Chapter 10: Historic Environment**, included Wisbech Conservation Area and associated listed buildings. DU02 represents minor updates to buildings and structures within the limits of deviation the maximum and minimum design parameters applied for and secured by the Order. Therefore, the magnitude of effects on these heritage assets is considered slightly less than those assessed within the ES. The minor changes in buildings and structure footprints will not alter the assessment in the ES regarding below ground archaeological remains. Work No.1, 1A, 2A and 2B will remain within the scope of the proposed Archaeological Written Scheme of Investigation and the **Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]**; the detailed **CEMP** to be secured by Order Requirement 10. In summary, DU02 will not alter the conclusions of the ES.
11.Biodiversity **[AS-008]**	Yes	DU02 does not reduce the anticipated loss of vegetation as the demolition of existing buildings and clearance would continue as permitted with the areas occupied by such vegetation still required. DU02 does not alter the potential risk of damage/disturbance to species and habitat during construction. Existing risks would be mitigated through the environmental measures set out in the **Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]**; the detailed **CEMP** to be secured by Order Requirement 10. The Biodiversity Net Gain Strategy approved under Order Requirement 6 will deliver 10% net gain; this is unaffected. As such DU02 is neutral in terms of significant effects. In summary, DU02 will not alter the conclusions of the ES.
12.Hydrology **[REP5-008]**	Yes	Retaining the existing access off Algores Way and not constructing Work No.4B will reduce the potential risk of sediment run off as a result of any construction activities. Furthermore, this approach will reduce the potential to deteriorate the water quality of the aquatic environment receptors (in particular, the Ordinary Watercourses running adjacent to the northern and eastern boundary of the EfW CHP Facility Site at the retained entrance to Algores Way). **ES Chapter 12: Hydrology** confirmed, where practical, rainwater harvesting will be incorporated into the design of the EfW CHP Facility. DU02 maintains this commitment and increases potential rainwater harvesting. DU02 does not alter the appropriate mitigation identified in the ES and secured by Order Requirements, e.g., Requirement 8, the **Drainage Strategy** and Requirement 10 the **Construction Environmental Management Plan (CEMP)**, including a **Water Management Plan**. In summary, DU02 will not alter the conclusions of the ES.

ES Chapter (Volume 6.2)	Within EIA parameters	Comment
13.Geology, Hydrogeology and Contaminated Land **[APP-040]**	Yes	Construction activities as highlighted in the **ES Chapter13: Geology, Hydrogeology and Contaminated Land** can increase the potential for an accidental release of contaminants or polluting substances, which can lead to ground contamination and risks to controlled waters. The removal of Algores Way Access Improvements and the corresponding land disturbance would overall reduce the potential risk of groundwater contamination. Existing risks would be mitigated through the environmental measures set out in the **Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]**; the detailed **CEMP** to be secured by Order Requirement 10. In summary, DU02 will not alter the conclusions of the ES.
14.Climate **[APP-041]**	Yes	**ES Chapter 14: Climate** considers the potential for significant effects upon the contribution to greenhouse gas emissions and vulnerability to climate change. DU02 includes locating photovoltaic panels on the workshop and stores roof, increasing grey water recycling and its use within the EfW process and retaining the existing access off Algores Way. These changes will maintain the Developer's commitment to solar power, reduce construction activities, including the use and supply of raw materials, manufacture of materials, reduce energy use, and water and reduce operation consumption of potable water. As such DU02 would be beneficial but not significant. In summary, DU02 will not alter the conclusions of the ES.
15. Socio-Economics Tourism Recreation and Land Use **[APP-042]**	Yes	**ES Chapter 15: Socio-Economics, Tourism, Recreation, and Land Use,** considers the potential for significant effects upon a range of environmental receptors with positive effects identified for direct and indirect employment during construction. Whilst the removal of Work No.4B (Algores Way Access Improvements), from the Authorised Development would potentially reduce construction activity at the EfW CHP Facility Site, this would be negligible and be unlikely to result in a change in overall workforce numbers. The removal would lessen the potential for construction disturbance to neighbouring businesses. In summary, DU02 will not alter the conclusions of the ES.
16.Health **[APP-043]**	Yes	The activities originally proposed to be undertaken at the EfW CHP Facility remain unchanged. Although minor, retention of the Algores Way entrance, will reduce effects that could give rise to health impacts with respect to noise, dust, and traffic. No material reduction in the size of the construction workforce is anticipated such that the indirect and beneficial effects upon the health of people in paid employment would not change significantly from that which is assessed within **ES Chapter 16: Health**.

ES Chapter (Volume 6.2)	Within EIA parameters	Comment
		The Authorised Development would continue to be subject to the Environmental Permit, Construction, Design and Management Regulations, the Health and Safety Executive and the **Outline Construction Environmental Management Plan (CEMP) (Volume 7.12) [REP6-012]**; the detailed **CEMP** to be secured by Order Requirement 10. In summary, DU02 will not alter the conclusions of the ES.
17.Major Accidents and Disasters **[APP-044]**	Yes	Overall, the detailed design is slightly beneficial as the existing access off Algores Way is retained negating the need to construct Work No.4B (Algores Way Access Improvements), which moderately reduces the opportunity for major accidents and disasters. The detailed design would not materially alter the conclusions of the ES and would continue to be subject to the Environmental Permit, Construction, Design and Management Regulations, the Health and Safety Executive and the **Construction Environmental Management Plan (CEMP)** secured by Order Requirement 10. In summary, DU02 will not alter the conclusions of the ES.
18. Cumulative Effects **[APP-045]**	Yes	DU02 is within the scope of the ES. Work No.4B (Algores Way Access Improvements), was not considered to be a contributory factor in the assessment of cumulative effects reported within **ES Chapter 18: Cumulative Effects**. In consideration of the Authorised Development in its entirety, the DU02 changes are within the maximum and minimum design parameters applied for and secured by the Order and as such do not change the conclusion reported within the ES.
19. Schedule of Mitigation and Monitoring **[APP-046]**	Yes	DU02 remain within the maximum and minimum design parameters applied for and secured by the Order. Embedded environmental measures and mitigation remain suitable and would continue to apply to the construction and operational phases of the Authorised Development.

Project mitigation

6.1.2 DU02 remains within the maximum and minimum design parameters applied for and secured by the Order. As such no additional mitigation measures are required and the existing environmental measures and mitigation will continue to be implemented.

Environmental effects

6.1.3 DU02 will generate consequential effects; however, these are not material or change the conclusion of the ES.

Summary

6.1.4 Considering the Authorised Development in its entirety, the proposed design updates are not significant and do not materially change the conclusions of the ES. With the implementation of the environmental measures and mitigation, there would be no changes in the significant effects already identified.

7. Conclusion

7.1.1 At DU02, the site layout and elevations of the EfW CHP Facility for Works No.1, 1A, 2A and 2B remain within the vertical and horizontal limits of deviation and uphold the design principles of the Order.

7.1.2 DU02 concludes, the detailed design does not introduce any consequential material effects to the project mitigation and would not cause any new or materially different environmental effects.

Appendix A Design Update 01, February 2025

[See separate pdf: CP3_R02_AA]

Appendix B Detailed Drawings

[See separate pdf: CP3_R02_AB]