

Fleet Decarbonisation / Future Centre of Operations

Dave Watkins & Matthew Stent Neighbourhood Services









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Background

In September 2020, BGCBC declared a climate emergency and published their Decarbonisation Plan to 2030. The Decarbonisation Plan supports the Welsh Government's ambition for the Welsh public sector to be climate neutral by 2030 and for all new public sector vehicles to be an ultra-low emission vehicle by 2025 or 2030 for heavy goods vehicles.

Also in 2020, BGCBC commissioned Cenex to undertake a detailed review of the suitability of low and ultra-low emission vehicle technologies, as well as the infrastructure and depot power supply requirements to transition the fleet to ultra-low emission vehicles by 2030.

Methodology...

- 1. Summary of Current Fleet
- 2. ULEV Technology Options
- 3. ULEV Performance Reviews & Technology Selection
- 4. Low Emission Vehicle Infrastructure Review
- 5. Recommended Replacement Vehicle Technologies
- 6. Implementation Recommendations and Next Steps

Conclusions...

 Implement battery electric small vans, medium vans, selected large vans and associated electric vehicle charge points according to the current vehicle replacement schedule...

Table 6 - Calculated Vehicle Replacement Schedule (financial year)

	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30
Medium MPV	0	1	0	0	1	0	0	0	0	0
Large 4x4 / SUV	4	1	1	0	0	0	0	1	0	0
Small Van	8	0	2	0	0	0	0	1	0	0
Medium Van	0	3	1	0	0	0	0	0	0	0
Large Van	0	3	1	1	3	0	0	8	0	4
Large Van (> 3.5t GVW)	0	3	4	2	1	1	2	0	3	0
Rigid Truck (≤ 7.5t GVW)	1	0	0	0	0	0	2	1	3	0
Rigid Truck (12-18t GVW)	1	5	3	0	11	4	3	2	1	0
Total	14	16	12	3	16	5	7	13	7	4

Conclusions [continued]...

- Prepare for the potential introduction of ultra-low emission rigid trucks from 2025 onwards
- Investigate the feasibility of using increased blends of biodiesel or renewable diesel as an interim solution to provide immediate greenhouse gas emissions reductions.
- Consider operational improvements that could increase the uptake of ultra-low emission vehicles.

First steps!

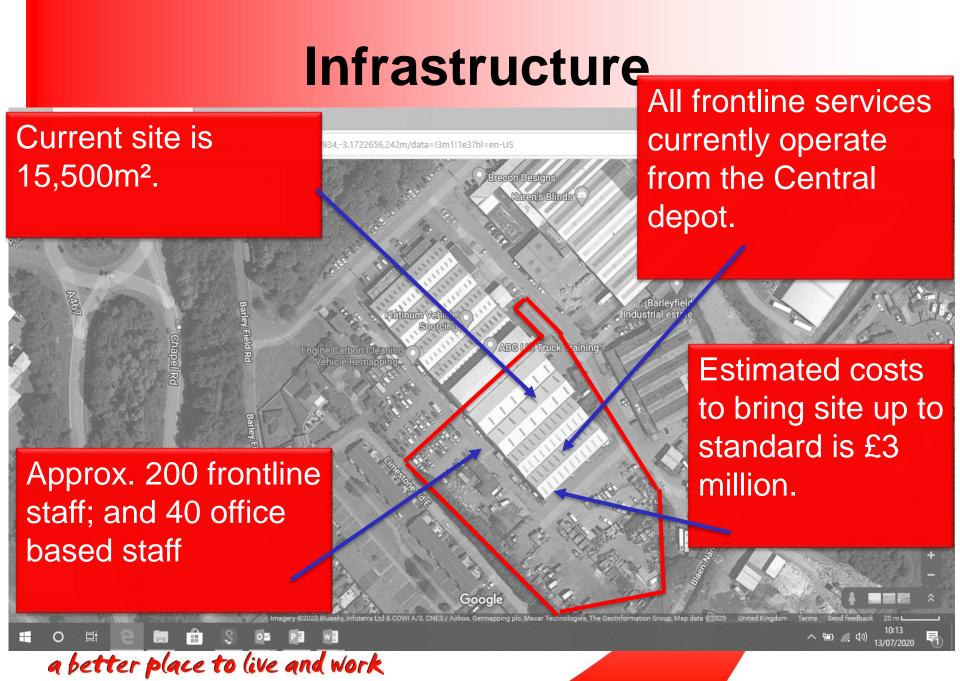


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EV ready?

- Current Workshop adaptations
- Fitter training Coleg Gwent
- Driver awareness trials
- Grant funding WGES
- Infrastructure Future Facility

THINKING OF THE LONGER TERM



Project Main Drivers

The main drivers for developing a new Centre of Operations, are as follows;

- 1. The existing depot is outdated (over 50 years old) and subject to issues with regard to layout, efficiency and backlog maintenance (estimated in 2018 to be in the region of £3m alone).
- 2. The current green agenda and Welsh Government's objective for the public sector in Wales to become carbon neutral by 2030.
- 3. The need to create the necessary infrastructure to move to a fully electrified fleet within the next 5-10 years.
- 4. The need to establish an accessible, safe and modern workplace to deliver key frontline services.

New Centre Of Operations proposed service uses

The primary use of the New Centre of Operations will be to provide state-of-the-art facilities for the delivery of front line services, such as:

- Cleansing Services
- Waste & Recycling Services
- Grounds Maintenance
- Bereavement & Cemetery Services
- Highways Maintenance
- Winter maintenance
- Fleet Storage and Maintenance
- Street Lighting & Technical Services DLO
- Stores for whicle parts and service consumables
- Staff Welfare Familities
- Staff and Fleet Parking

Proposed New Centre Of Operations

Fleet Numbers;

- The Council has 119 fleet vehicles including various size vans, lorries, mini busses, tractors and other plant.
- The electrification of the waste and recycling fleet alone will reduce the carbon footprint by 415 tons of Co² per year.
- The new site and buildings design will include infrastructure to support the electrification of Blaenau Gwent's entire fleet of vehicles.

Building Design;

- In response to Welsh Governments call for action on decarbonisation the new site and buildings will be carbon neutral and see Blaenau Gwent CBC lead in areas like decarbonisation through a greener vehicle fleet, rain water capture and the harnessing of wind and solar power, while delivering a more sustainable economic solution for future needs.
- The Council is also investing, along with partners, in off site renewable energy through the
 installation of a wind turbine at Silent Valley, just 2 miles from the proposed site for the
 new Centre of Operations, providing an opportunity to supply renewable cheap energy.

Cont.;

- The new site is 32,000m²
- The foot print for the new building is 5,200m²
- The site will have provision for electrical hook up for each and every fleet vehicle.
- Staff parking facilities will be made available which will include an electrical charging zone with 50 parking spaces identified for staff vehicle charging.
- Cycle compound and recharging facilities.
- The whole project is currently estimated at £20m (including site risk i.e. mining/flooding)
- Outline business plan submitted to Welsh Government for comment.



Timeline

- Site ground investigation works to be undertaken during February 2022
- 2. Outline Business Case Approved March 2022
- 3. Full planning application submitted by May 2022
- 4. Draft specification/tender documents and evaluate tenders through September 2022 to December 2022
- 5. Let contract January 2023
- 6. Design and build works through February 2023
- 7. Commence on site March/April 2023
- 8. Anticipated project projected completion spring 2024