

Climate Change Statement

Site Address:

Woodland Petrol Filling Station
132-138 Fleetwood Road North
Thornton-Cleveleys
FY5 4BL

Definition of a Climate Change Statement as described in the Wyre Council Validation Checklist:

A climate change statement explains how the development responds to the challenge of climate change through design, usage of resources and assets, water and energy efficiency measures, reuse and recycling during construction and in the selection of materials. It would also be expected that developments which involve car parking would make appropriate provision for standard charge Electric Vehicle Recharging (EVR) points.

The following text details what measures will be implemented through the development in order to:

Reduce the energy demand associated with the proposed development:

A number of different businesses currently operate on the site, including the petrol filling station and ancillary shop, car workshop and hand car wash. Each of these separate businesses make individual demands on energy.

The proposed development will streamline the development on site, with a single building to be lit, heated, cooled and generally supplied with electricity. The proposed PFS building will be of a modern construction with an insulated building envelope and proficient use of services which will minimise energy demand.

Low voltage LED lighting to the new building will be a significant improvement on the existing lighting systems and other energy saving initiatives will include the use of motion sensors to control temperature settings in the store and investing in maintenance programmes for heating and ventilation systems.

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Limit the carbon consumed through the implementation and construction processes, e.g. by reusing existing on-site materials or sourcing materials locally:

Much of the existing workshop building fabric is proposed to be retained, including the brick walls and foundations. The walls will be overclad externally for continuity and insulated internally.

While the forecourt canopy is being raised, the existing structure will be retained as far as possible. The existing underground tanks, offset fills and vents will be retained.

The brickwork to the existing shop kiosk and car wash will be crushed by the Contractor and reused as hardcore for ground surfacing on other sites.

Utilise renewable or low carbon energy sources:

Grid connected photovoltaic panels are proposed to be located on the roof of the pump canopy and shop building. The Client will also consider using a green energy provider.

Ensure the building design and layout has been optimised for energy efficiency and to minimise heat stress including opportunities for cooling through shading provided by trees:

The proposed building has just one glazed elevation, which faces north. This orientation means that solar gain and glare will not be an issue within the shop.

Existing trees to the east and building to the south (130 Fleetwood Road North) will naturally shade the building and minimise heat stress.

The proposed shop building layout is typical for this sector of commerce. The refrigeration units are situated together on the back wall for energy efficiency. A door between the office room and back of house means that the office can be efficiently heated separately.

Minimise the need to travel and promote active travel options such as walking and cycling:

Two cycle stands to accommodate four bikes have been proposed.

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Reduce potential impacts of flooding associated with your proposed development:

This is considered at length in the submitted FRA and Drainage Scheme.

Minimise water use associated with your proposed development and ensure the sustainable management of water:

Using an automated car wash instead of a professional or home hand car wash will reduce energy consumption. The proposed automated car wash will reclaim water already used as part of the wash process and reuse it. According to the University of Florida: "Most commercial car washes use 60% less water to clean your entire car compared to only rinsing your car at home."

Similarly the proposed laundry unit will use significantly less water, detergent, and energy than consumer-grade machines.

Toilet foul water will be reduced by the use of eco plumbing system.

Ensure that biodiversity, green infrastructure and landscaping proposals are designed in a way that is resilient to climate change impacts now and in the future and provide adaptation benefits now; and Reduce air pollution associated with your proposed development.

The site as existing is comprised entirely of hardstanding. For a petrol filling station, the site area is quite compact, and this application seeks to modernise the offering by having a single shop building and improved traffic flow through the forecourt.

With regard to air pollution, the proposed layout includes an EV car charging bay, along with cycle parking.

AD blue will be available at the pumps. The addition of AdBlue exhaust fluid mitigates harmful NOx emissions from diesel cars, turning it into nitrogen and water, and will help reduce local pollution and promote good air quality.

As we progress on the 'Road to 2035' and the promise that from this date all new cars and vans will be 100% zero emission, our Client is mindful that in the future the fuel pumps may be replaced by EV charging or hydrogen provision. The proposed site layout, with the shop to the south of the site, has a large enough forecourt to meet customer demand for green infrastructure / refuelling in the future.