

Willow Tree Depot, Ditchfield Road, Hillingdon  
 Low Emission Strategy  
 Version: 1  
 Date Produced: 15<sup>th</sup> January, 2020

## Introduction

### 1. Scope

- 1.1 This document provides details of the Low Emission Strategy at Willow Tree Depot in Hillingdon.
- 1.2 This document should be read in conjunction with WSP's Energy Statement V2 dated 4<sup>th</sup> June, 2018.

### 2. Boilers

- 2.1 We are proposing to install low NO<sub>x</sub> boilers to all 10 houses.
- 2.2 The proposed boiler is the Baxi 224 Combi Boiler. The data sheet is enclosed.
- 2.3 The details of the emissions of nitrogen oxides can be found in figure 2.1 below or on page 18 of the data sheet.

| Baxi Combi                                                                                                                                               |                 |        | 224    | 228    | 424    | 428    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|--------|--------|
| Sound power level, indoors                                                                                                                               | $L_{WA}$        | dB     | 48     | 50     | 48     | 50     |
| Emissions of nitrogen oxides                                                                                                                             | NO <sub>x</sub> | mg/kWh | 38     | 40     | 38     | 40     |
| <b>Domestic hot water parameters</b>                                                                                                                     |                 |        |        |        |        |        |
| <b>Declared load profile</b>                                                                                                                             |                 |        | XL     | XL     | XL     | XL     |
| Daily electricity consumption                                                                                                                            | $Q_{elec}$      | kWh    | 0.151  | 0.151  | 0.151  | 0.151  |
| Annual electricity consumption                                                                                                                           | $AEC$           | kWh    | 33     | 33     | 33     | 33     |
| <b>Water heating energy efficiency</b>                                                                                                                   | $\eta_{wh}$     | %      | 86     | 85     | 86     | 85     |
| Daily fuel consumption                                                                                                                                   | $Q_{fuel}$      | kWh    | 22.770 | 22.930 | 22.770 | 22.939 |
| Annual fuel consumption                                                                                                                                  | $AFC$           | GJ     | 17     | 17     | 17     | 17     |
| (1) Low temperature means for condensing boilers 30°C, for low temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet). |                 |        |        |        |        |        |
| (2) High temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.                                    |                 |        |        |        |        |        |

Figure 2.1 – details of nitrogen oxides emissions

### 3. Electric Vehicle Charging Points

- 3.1 We are proposing to install electric vehicle charging points to 8 houses.
- 3.2 The charging points are split into 4 active and 4 passive points, fixed to units 1-2, 4-7 and 9-10.
- 3.3 The charging points will be located at the front the houses. Please refer to figure 3.1 below or drawing 29070-010 SITE PLAN-Afi (enclosed) for further information.
- 3.4 The proposed charging point is Wallpod:EV Ready. The datasheet is enclosed.

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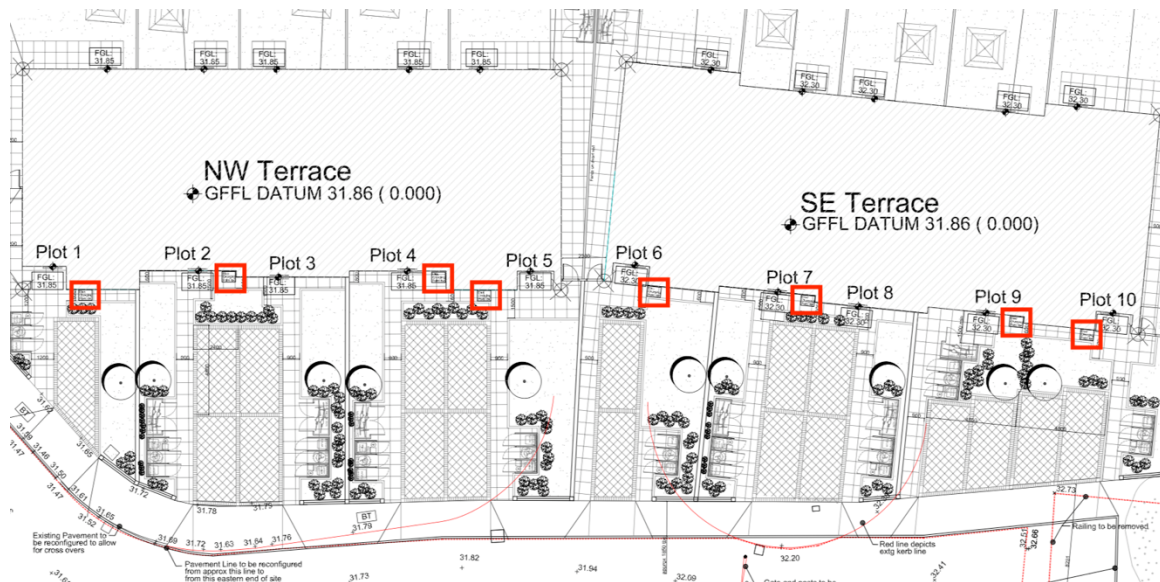


Figure 3.1- locations of electric vehicle charging points

#### 4. Solar PV Panels

4.1 We are proposing to install Solar PV panels on this scheme.

4.2 The proposed system is a 13.75 kWp system at a 30-degree inclination.

4.3 Please refer to figure 4.1 below, drawing 29070-012 Proposed Roof Plan-Afi (enclosed) and WSP's Energy Statement for further information.

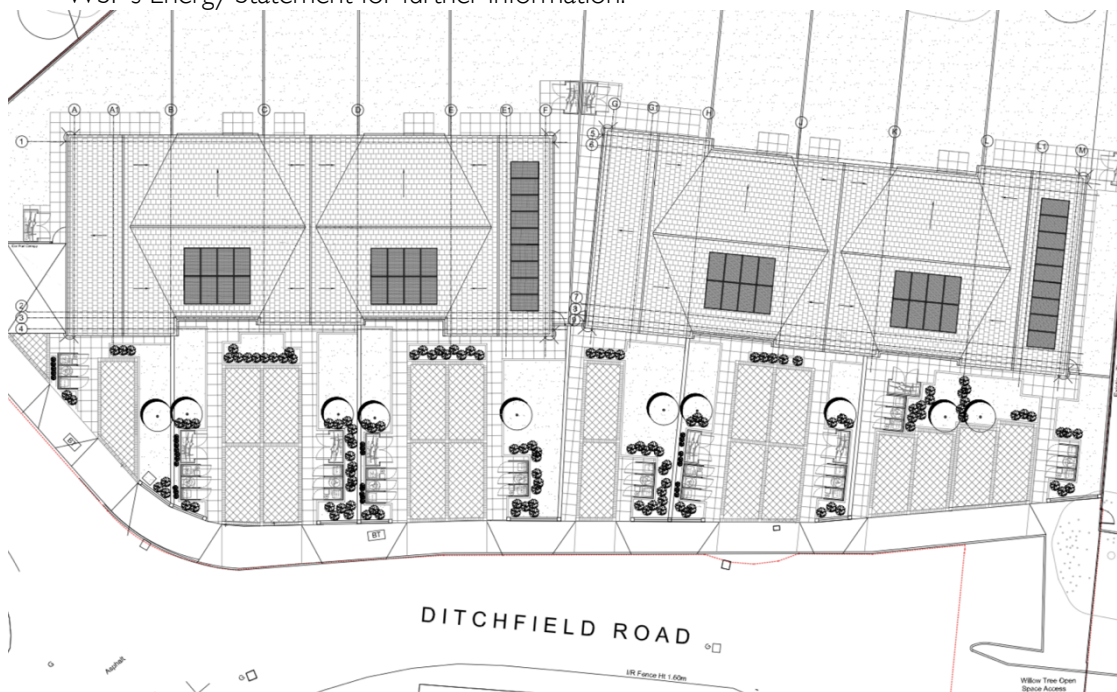


Figure 4.1 – locations of solar PV panels

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