

While Langstone Park benefits from a highly sustainable location, the current buildings are inefficient and unsustainable, being responsible for **an enormous carbon footprint of 4,688 tonnes of CO2 each year**. Similar environmental issues are raised by the more than 3.3 million kWh of gas consumed by the Langstone Park site annually.

The proposals therefore put sustainability at the heart of the design approach, and are being brought forward with a comprehensive strategy, addressing carbon, climate resilience, and sustainable transport, which includes:

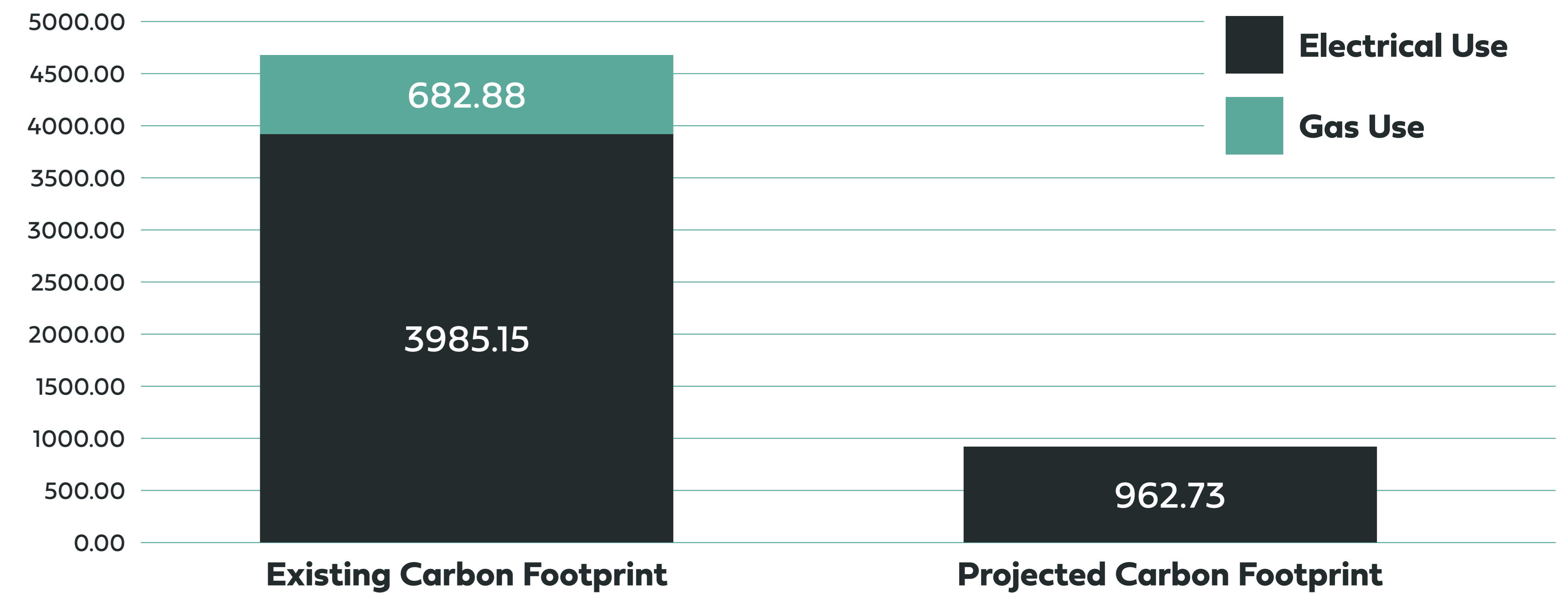
-  High standards of insulation, to achieve improved energy efficiency and reduced energy demand
-  New buildings will be constructed to BREEAM Excellent standards
-  Replacing the gas-heated buildings with modern units benefiting from heat pumps and electric heating systems
-  Securing renewable power for Langstone Park through green power purchase agreements
-  Solar panels will be maximised on site to generate renewable electricity
-  Water collection and conservation techniques, including rainwater harvesting for flushing WCs, and a sustainable urban drainage strategy
-  A Circular Economy Strategy that aims to minimise waste associated from redevelopment and operations, while maximising recycling on site
-  Enhancement of the biodiversity value of the site, through an integrated landscaping and habitat creation strategy

A greener Langstone Park

As a result of the broad package of measures proposed in this regeneration masterplan, the old, energy-intensive, and inefficient buildings on Langstone Park will be replaced by the highest specification business and industrial units.

Once fully delivered, the new Langstone Park will be substantially greener, with a **dramatically lower carbon footprint and annual energy consumption**.

Carbon footprint comparison (tn.CO2.annum)



Energy Consumption - KWh.m² .annum

