



ENERGY MANAGEMENT PLAN

a) **Description of how project will be 20% more energy efficient than ASHRAE standards.**

With regard to the mechanical, electrical, and plumbing system for this project, in the interior building lighting and exterior site lighting will utilize efficient LED fixtures with the goal to be at least 20% more efficient than the current ASHRAE standards. It is anticipated that this project will use package gas heat rooftop units, which will approach 20% more efficient than current ASHRAE standards for cooling, however due to limitations on gas heating technology will meet the current ASHRAE standards for heating. A high efficiency, tank-less water heater will be utilized, along with low flow plumbing fixtures.

The insulation and fenestrations for the building envelope meet current ASHRAE standards.

b) **Description of utilization of sustainable forms of energy**

N/A

c) **Participation of NC GreenPower program**

N/A

d) **Description of how project will ensure indoor air quality, adequate access to natural lighting, and allow for proposed utilization of sustainable energy.**

Outdoor air will be provided via the package rooftop HVAC units in quantities that will exceed the current code required minimum ventilation amounts to ensure indoor air quality. In addition, MERV 14 filters will be specified, as well as other specifications for best practice to protect ducts from dust, moisture, and debris during construction.

The customer-facing "Store Area" will receive natural lighting from 90% of the clear fenestrations at the front or primary façade.

e) **Description of how project will maintain commitment to energy efficiency and reduced carbon footprint over time.**

Although not participating in the NC GreenPower program, Refuel is committed to energy efficiency in their building and facilities as well as reducing carbon-footprint by promoting alternative transportation with the introduction of electrical vehicle (EV) charging stations.

f) **Description of how the project's Transportation Management Plan will support efforts to reduce energy consumption as it affects the community.**

Electrical vehicle (EV) charging stations will be provided to promote the use of alternative transportation apart from gas vehicles. A bicycle repair station will be provided at this site to support the community.