

# Passive House

## THE EKO SOLAR ENGINE

1

SUN: 274 MILLION gWh/YR

8,628 kWh/YR ANNUAL SITE ENERGY DEMAND

6KW SOLAR ARRAY

AIR TIGHT CONSTRUCTION

MECHANICAL ROOM

2

FRESH AIR SUPPLY

AIR TO AIR HEAT EXCHANGER

3

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### 1 ENERGY GENERATION & STORAGE

- a) Sun: 274 million gWh/year
- b) 6kW Solar Panels
- c) Bio-Diesel Backup Generator
- d) Solar Heat Gain Windows
- e) Battery Storage

### 2 ENERGY CONTROL

- a) Mechanical Room (2% total sq/footage)
- b) 60 Amp Inverter
- c) Water Pump Controller
- d) HVAC system

### 3 ENERGY CONSUMPTION

- a) Energy Efficient Lighting
- b) High Efficiency Fan
- c) Energy Efficient Non-Venting Appliances
- d) HVAC system
- e) Heat Pump Water Heater
- f) Constant Pressure Water System