

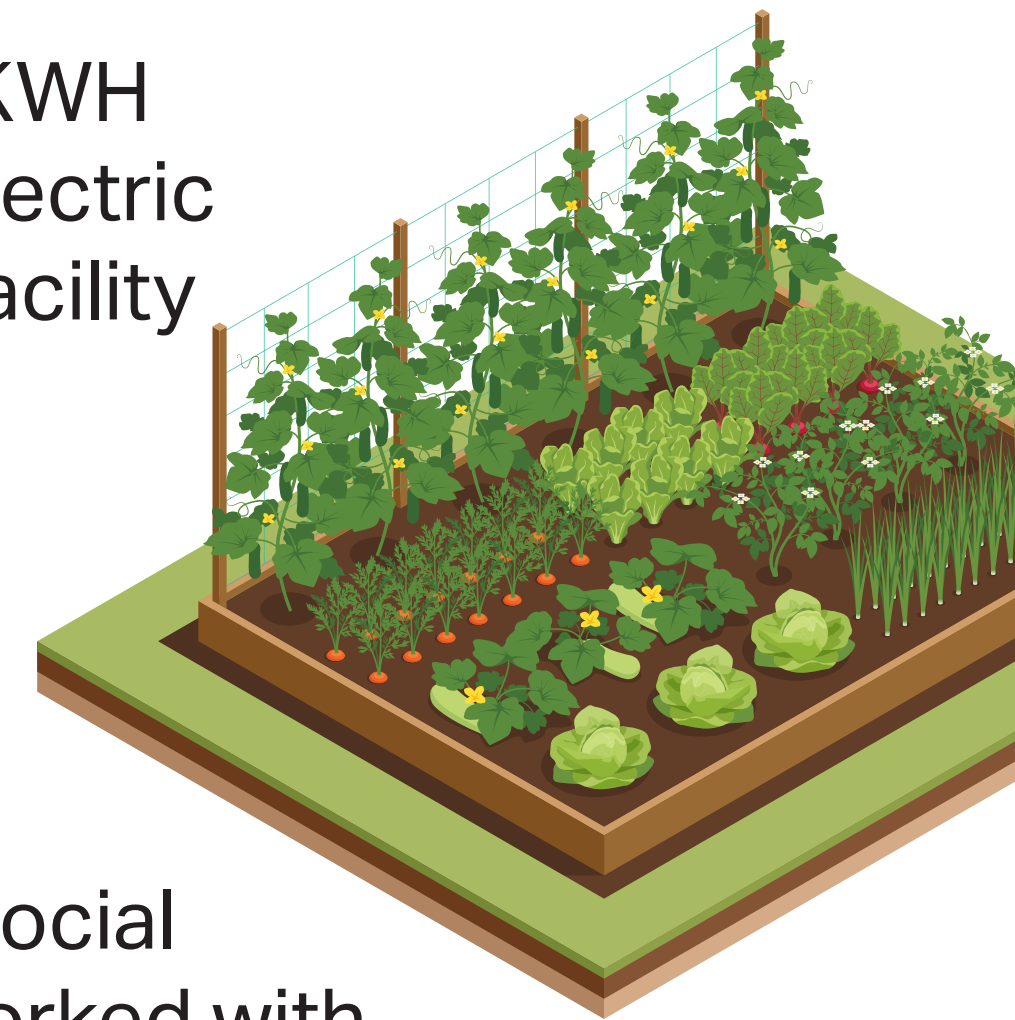
Sustainable Manufacturing at HARBEC

HARBEC prioritizes the environment by using energy-efficient equipment and sustainable on-site energy sources to lower our GHG emissions and carbon footprint, reducing our environmental impact on natural resources.



250 KW WIND TURBINE

Yearly electric production is 350 KWH or 10% of the total electric required to run the facility

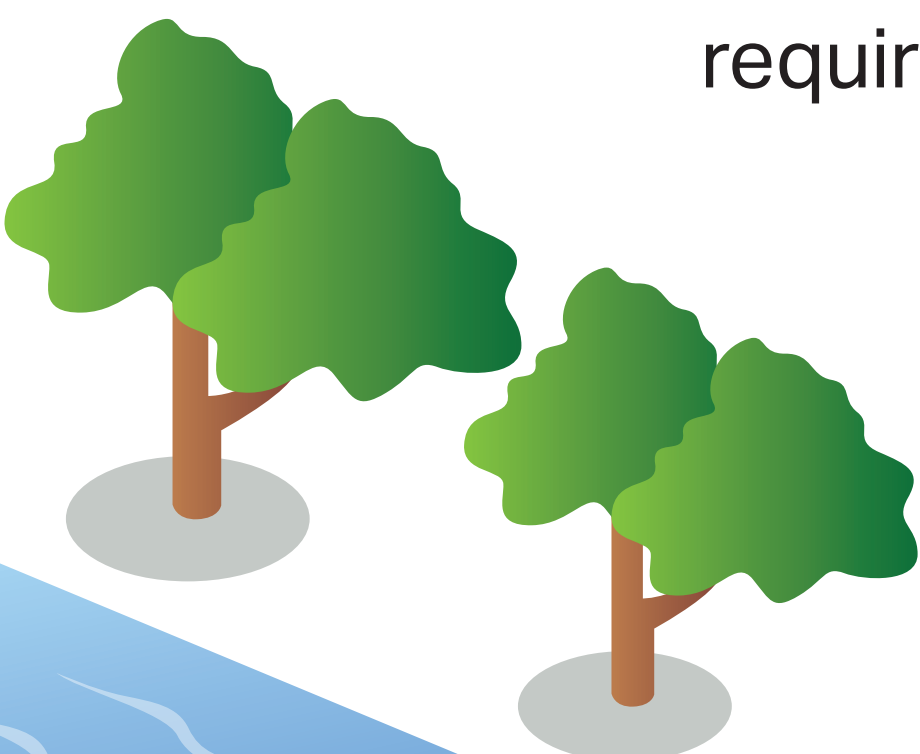


EMPLOYEE GARDEN

HARBEC's Corporate Social Responsibility committee worked with employees to build 4 raised bed gardens out of recycled pallet wood which grows fresh produce for all to enjoy.

850 KW WIND TURBINE

Yearly electric production is 1.5 MWH or ~50% of the total electric required to run the facility

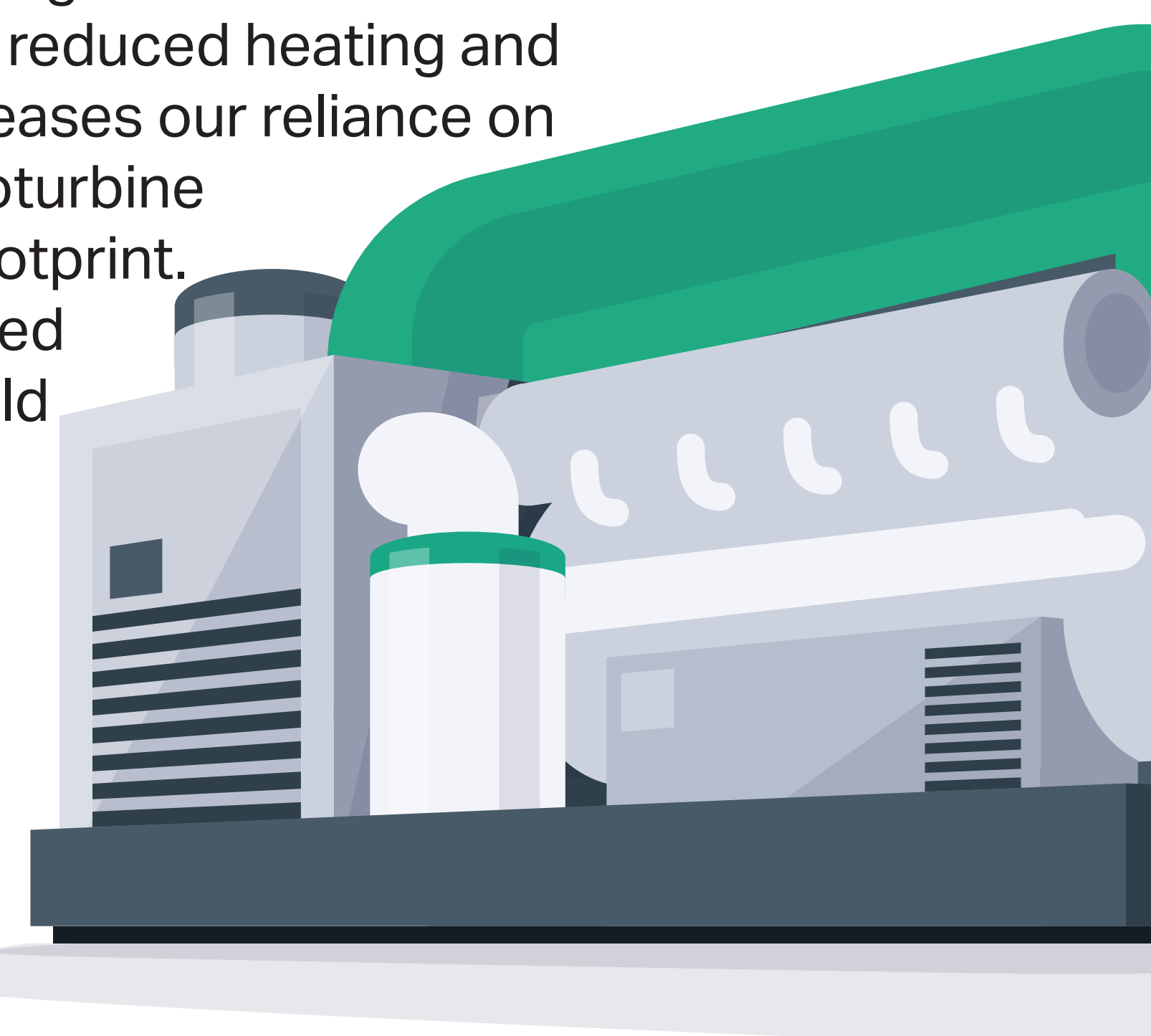


900 K GALLON POND

Saves over one million gallons of water per year by utilizing an 900K gallon reservoir to capture and hold rainwater. This system uses thermal mass to temper heated process wastewater, prior to sending it to our cooling tower, which reduces the energy required for total cooling requirements.

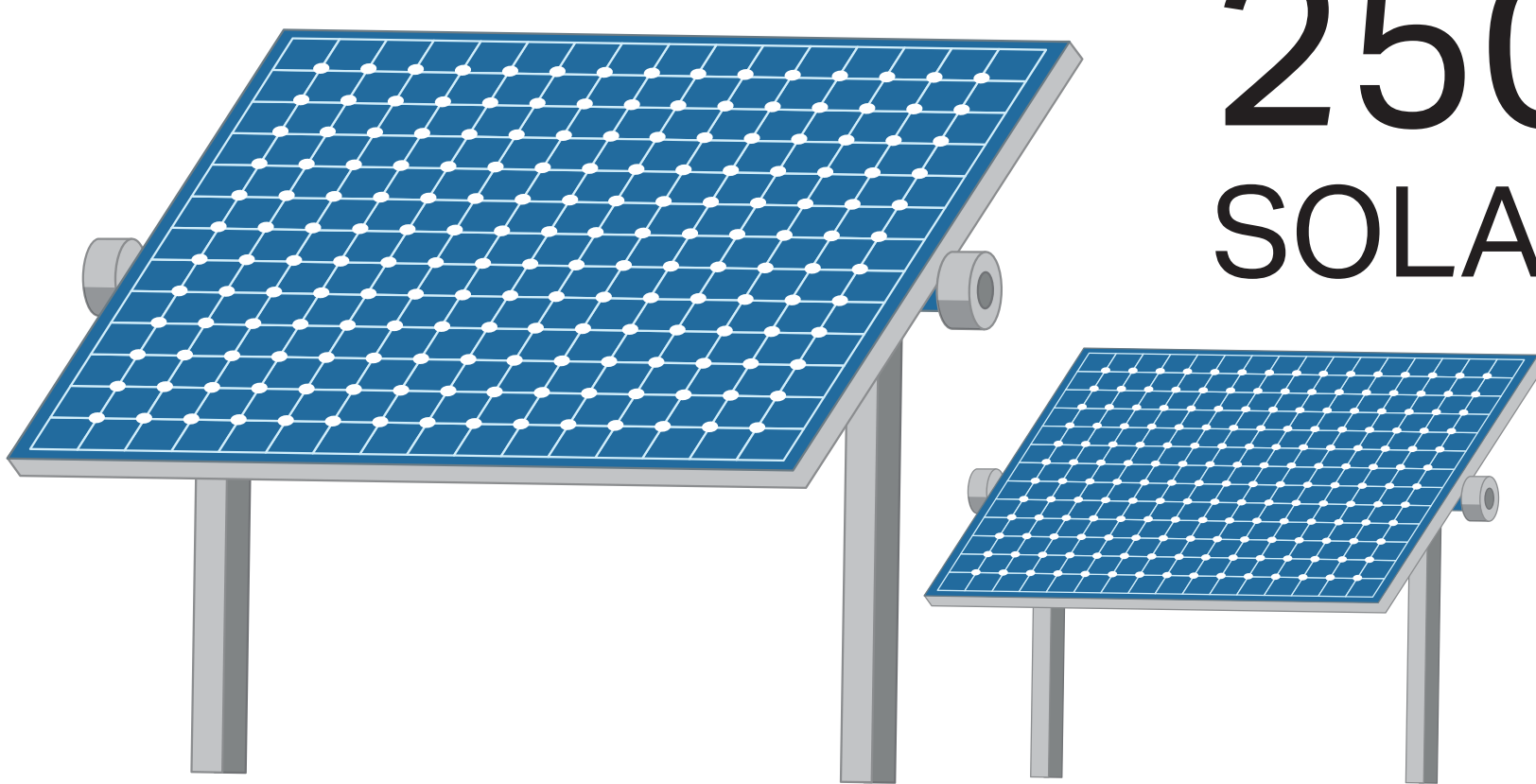
GEOTHERMAL TUBING COILS

The pond's 4-mile geothermal tubing coils transfer heat or cold to and from the pond, resulting in reduced heating and cooling requirements. This, in turn, decreases our reliance on natural gas or electricity to run the microturbine engines and helps reduce our carbon footprint. The cooled water is subsequently pumped to the absorption chillers to generate cold water for air conditioning by using the thermal engine exhaust.



HEAT + COOL

Combined heat + power (CHP) provides all thermal (heat & cool) power plus 20% of electric required.



250 KW SOLAR GARDEN

Provides renewable energy to residential subscribers.

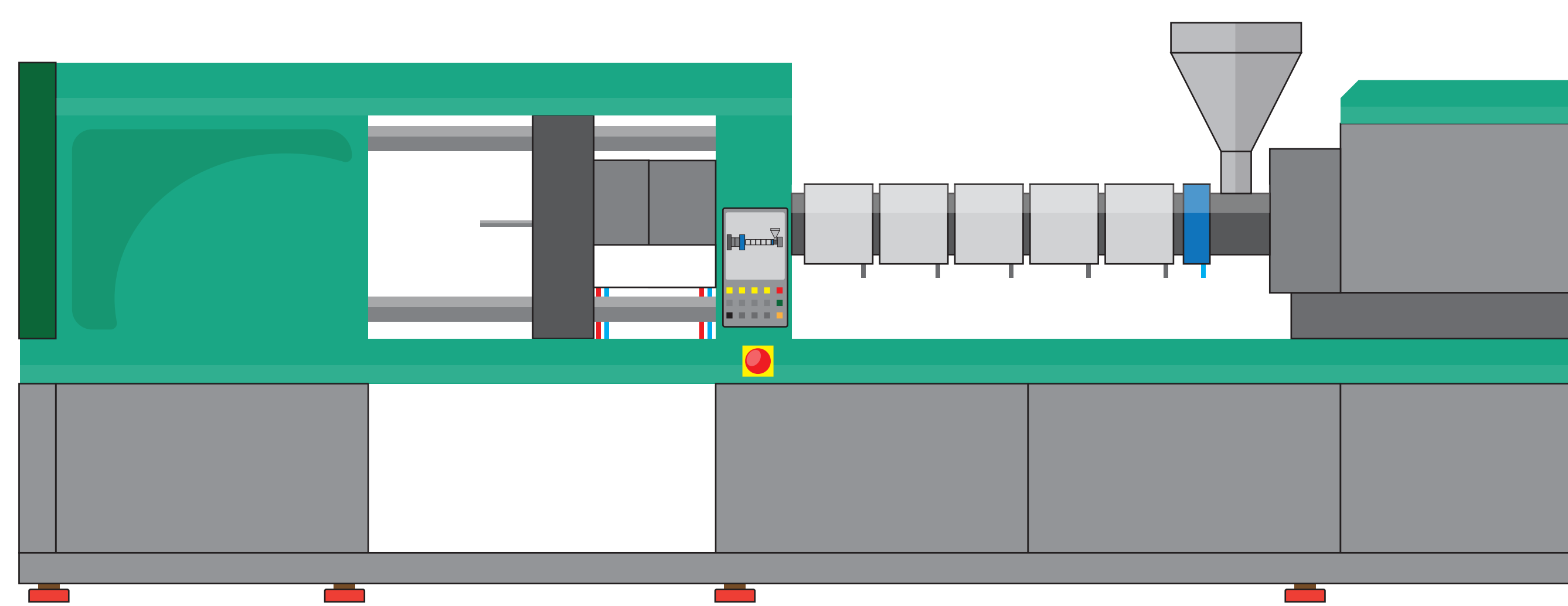
WASTE REDUCTION

Efforts towards Zero Waste include grinding and sorting polymer scrap, recycling paper and cardboard through baling, and providing convenient receptacles for composting and recycling throughout the facility.



100% ELECTRIC INJECTION MOLDING MACHINES

HARBEC reduces energy consumption by up to 50% by solely employing electric machines in contrast to hydraulic molding machines. In addition, electric machines contribute to a quieter and cooler working environment.



CARBON NEUTRAL

In partnership with DEKRA, HARBEC achieved Carbon Neutrality in 2013 with the adoption of ISO 50001 and SEP, which led to significant improvements in energy and carbon performance.



2013



2015

WATER NEUTRAL

Since 2015, HARBEC has been water neutral through implementing various water conservation and management strategies in partnership with USDOE Better Buildings, Better Plants Challenge.