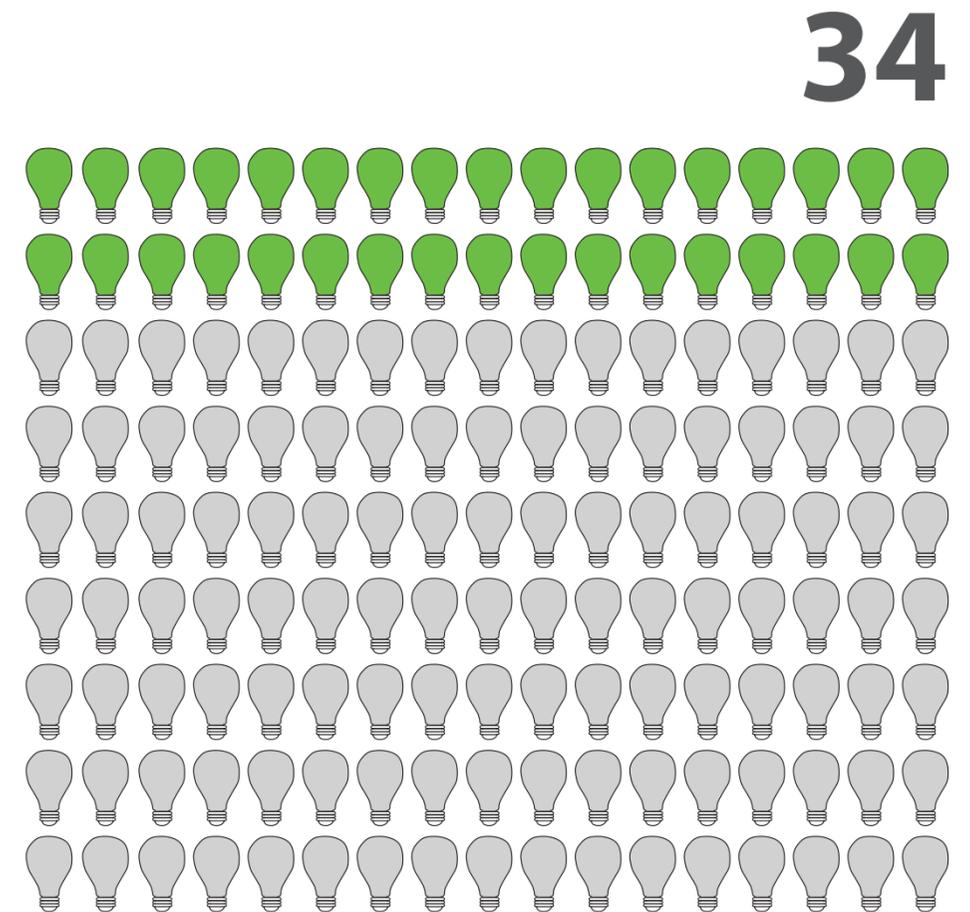
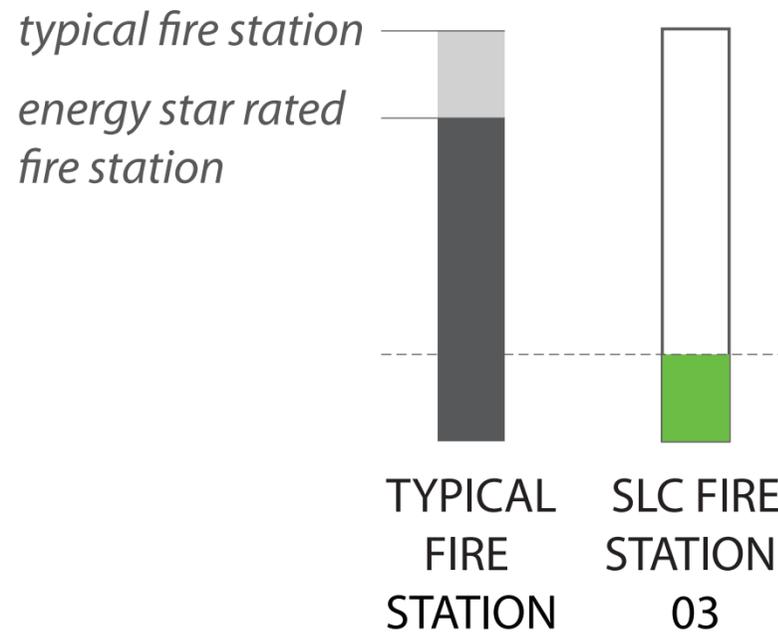


SLC FIRE STATION 3

ENERGY USE REDUCTION

SLC Fire Station 3 is projected to be 78% more energy efficient than the typical fire station resulting in an Energy Use Intensity (EUI) of 34.

A typical fire station has an EUI of 153*.



EUI is a building's annual energy use per unit area, typically measured in thousands of BTU per square foot per year (kBtu/ft²/yr)

*Energy consumption is compared to typical Fire Station EUI as reported by Energy Star Portfolio Manager 2016.

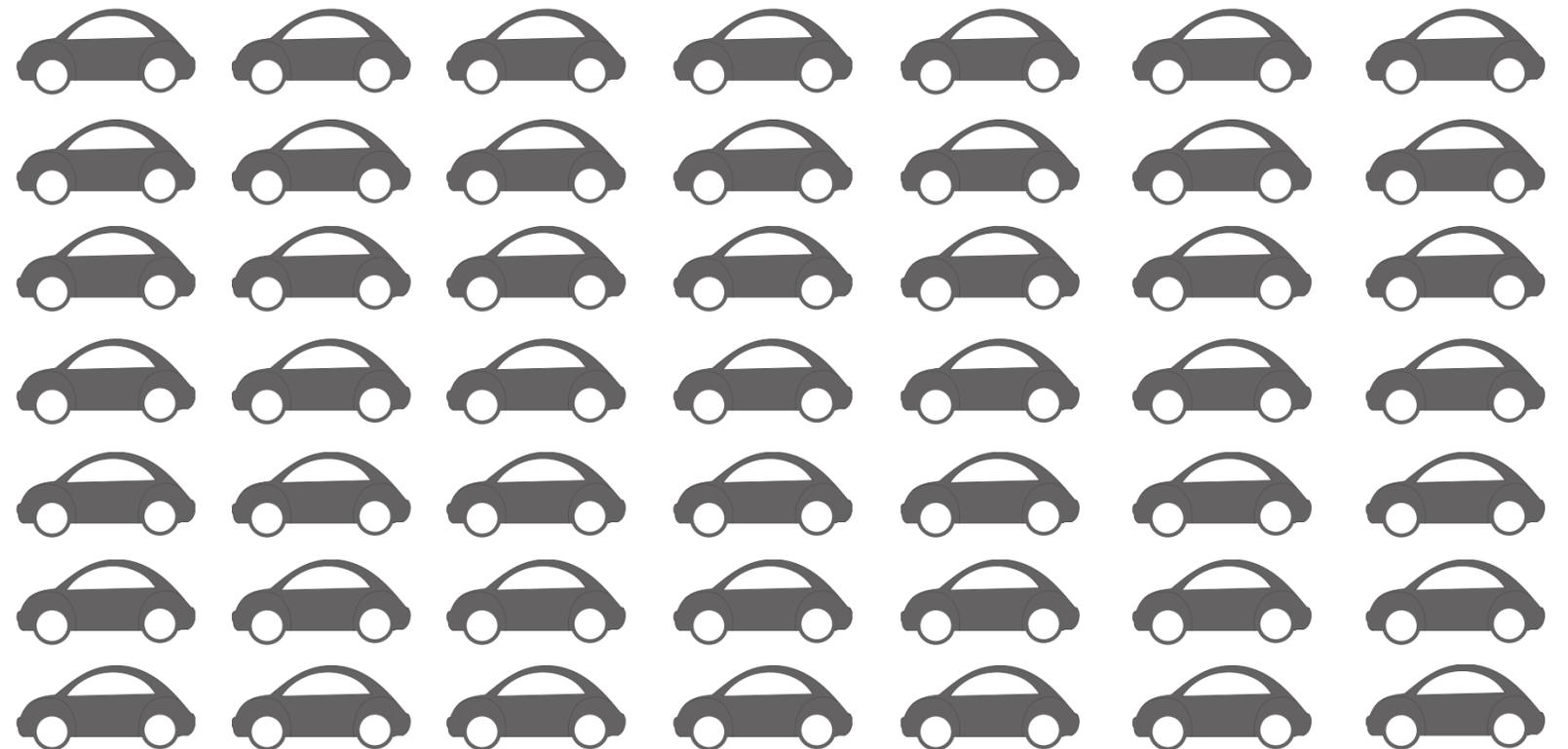
SLC

FIRE STATION

3

CONSTRUCTION WASTE MANAGEMENT

Over 80% of all construction waste was recycled & diverted from landfills



112 tons of waste was recycled and diverted from the landfill. This is equivalent to the weight of 56 Volkswagen Beetles

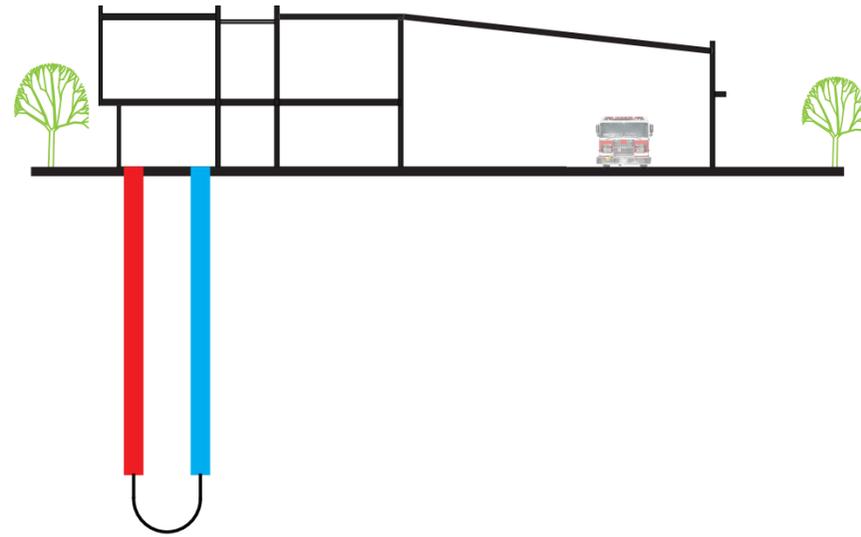
SLC

FIRE STATION

3

GEOHERMAL HEATING & COOLING

SLC Fire Station 3 utilizes a geothermal heating and cooling system which makes use of the earth's ambient temperature to heat and cool the building. (24) vertical bores extend 400' down into the earth.



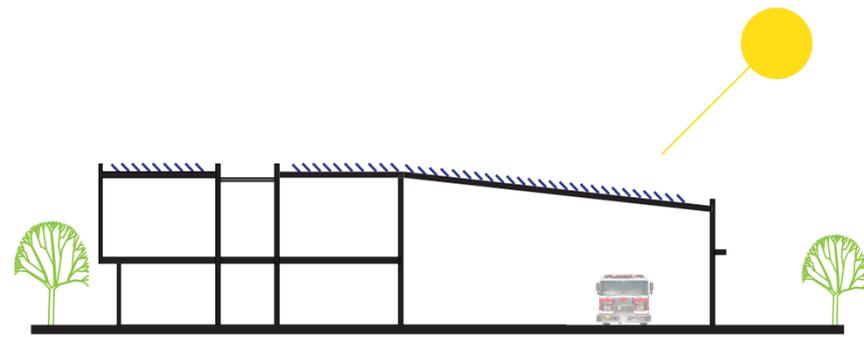
Equivalent number of homes that could be heated by the station's geothermal system*

*BTU's of a typical 2,000 sf residence were based on EIA reported averages as of 2012 as compared to Fire Station 3 energy model projections.

SLC 3 PHOTOVOLTAIC ENERGY

FIRE STATION

The solar panel array mounted on the roof of SLC Fire Station 3 contains 306 panels which generate 110,000 watts of power at any point in time.



27



The power generated by the solar panel array is equivalent to the power needed to supply (27)SLC homes annually*

**Watts per square foot for a typical 2,000 sf residential household estimated at 2 watts per square foot.*

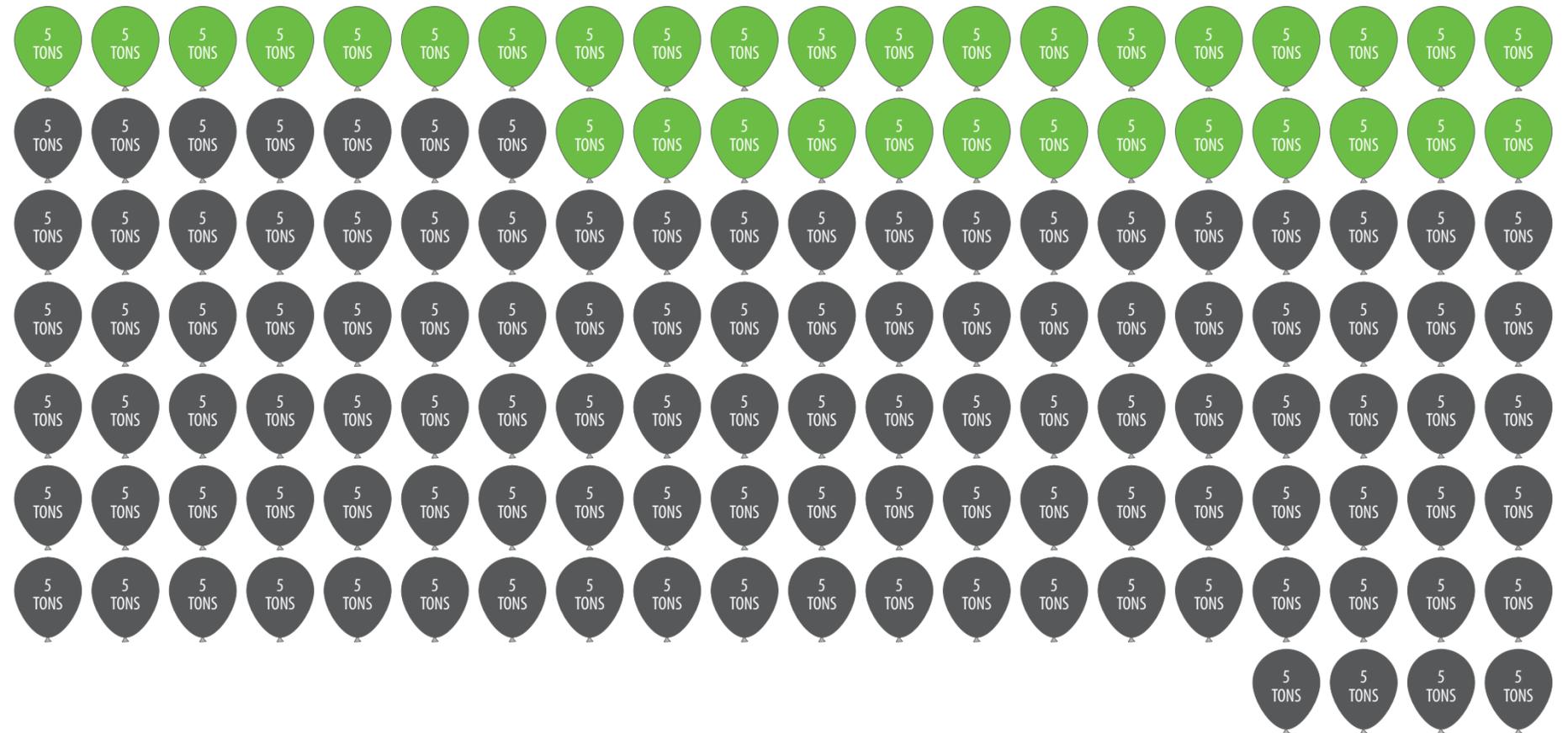
SLC FIRE STATION 3

CARBON DIOXIDE EMISSIONS REDUCTION

SLC Fire Station 3's energy efficiency will contribute to a reduction of 220 tons of coal being burned per year.

The reduction of coal burned will eliminate 450 tons of carbon dioxide from entering our valley's atmosphere each year.

450



Total reduction in tons of carbon dioxide per year*

**Energy consumption is compared to typical Fire Station EUI as reported by Energy Star Portfolio Manager 2016. Carbon dioxide emission reduction was estimated through the use of energy model projections as compared to ASHRAE code required minimums.*

SLC

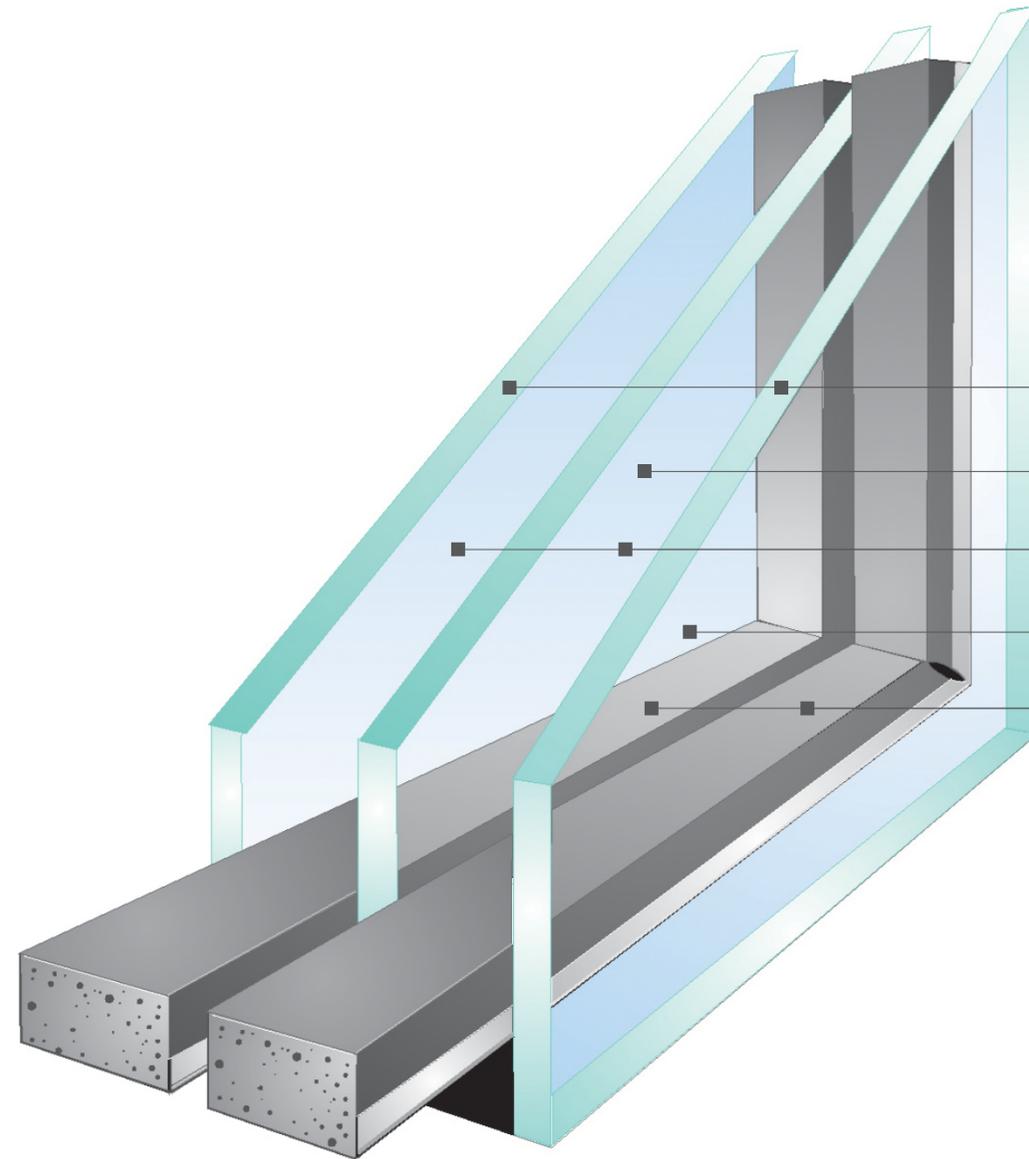
FIRE STATION

3

GLAZING SYSTEMS

SLC Fire Station 3 utilizes a high performance glazing system through- out the facility.

The system is triple-pane, thermally broken with a U-value of .16



- .16 U-Value**
- Triple-Pane**
- Thermally Broken**
- Low-e Glass**
- Clear Glass**
- Argon Filled**
- Ceramic Frit**
- Low Conductivity Spacers**

SLC

FIRE STATION

3

BIOSWALE STORMWATER FILTRATION

The entire parking lot of Fire Station 03 drains stormwater runoff into a Bioswale filtration system, located along the east edge of the site.

Native plantings filter the stormwater runoff before it returns to the aquifer below.

