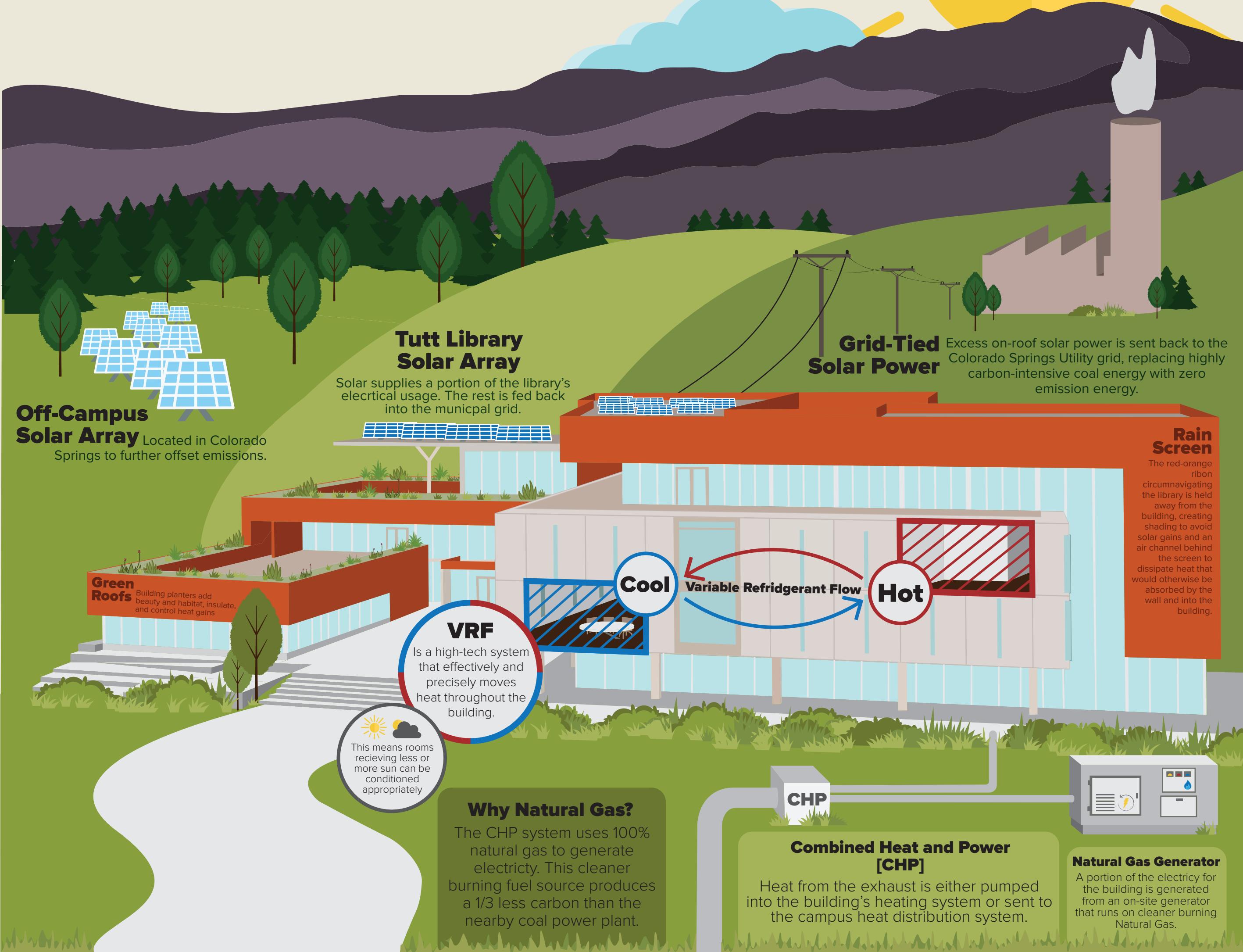


NET ZERO ENERGY SYSTEM TUTT LIBRARY

SUSTAINABILITY AT COLORADO COLLEGE



80 geothermal boreholes were drilled 400ft deep under the Armstrong Quad to circulate water to and from the library. During the cooling season, heat is expelled from the building and stored in the ground or sent to other buildings on campus. In the heating season, the library draws on that stored heat and existing geothermal heat to efficiently warm Tutt Library.

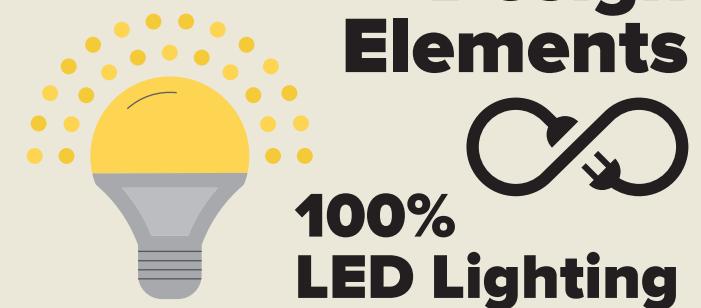
Acheiving Net-Zero Carbon

- Switch to a cleaner energy source: **Natural Gas**
- Utilize excess heat energy from the natural gas generator
- Upgrade systems to improve overall building performance
- Offset carbon output from natural gas generator by putting renewable power back on to the grid.

Geothermal Heat Exchange



Efficient Design Elements



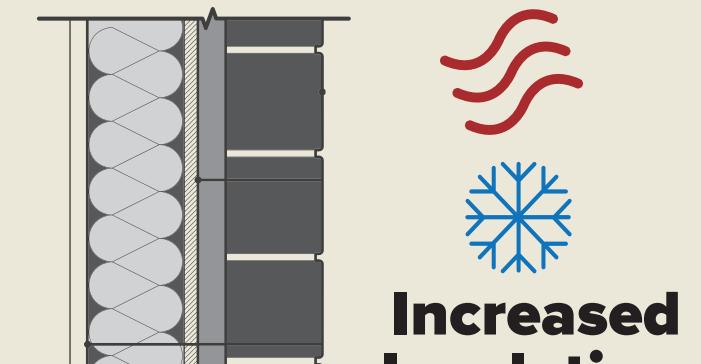
100% LED Lighting

Occupancy sensors and daylight sensors ensure maximum energy efficiency.



Daylit Windows & Blinds

Glazing is placed to let the sun into the building to naturally light the interior space reducing the need for artificial lighting. Strategically placed blinds keep the building cool during the hottest parts of the day.



Increased Insulation

Improves energy efficiency and helps to keep the building warm during cooler months of the year and cool during warmer months of the year.



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