

GEOS is a new construction neighborhood that achieved net-zero energy, meaning the amount of renewable energy created equals the total energy the building uses annually. In layman's terms, residents pay a \$10- to \$20-per-month fee for an energy meter — that's the extent of their power bill. Many residents make more energy than they use from Roof PV

1. Southern-facing glass allows for maximum solar gains, and the overhangs on that side protect residents from too much sunlight during summer. The orientation of the houses within the neighborhood increases efficiency by not having them all parallel with each other, but rather, perpendicular.

2. The most underrated and oft-overlooked element of energy efficiency, according to Klebl, is the home's shell, i.e. air tightness. They "tighten" the houses everywhere from windows to doors to the ceiling with heavy insulation. Klebl says Geos homes exchange air every 20 hours, compared to three for the standard house.

3. Mechanical innovations ensure internal air quality. Every Geos home has a unique sensor within to do so, which also manages the air transfer. Essentially, stale indoor air enters a heat exchanger on its way out, warming the outside air on its way in during winter, or cooling the air in summer.

4. The Latest construction style this year has your shop/store on the ground floor while you can live on the two floors above.

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