



Philgreen Construction

Revive North Star Plan | Fort Collins, CO | ReviveFC.com



“I won’t have to worry about increasing energy bills in the future because I am more in control of both my energy use and production.” *Home owner*



PROJECT DATA

- **Layout:** 3 bdrm, 2.5 bath, 2 fl, 1,770 ft²
- **Climate:** IECC 5B, cold
- **Completed:** September 2016
- **Category:** production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 42, with PV -9
- **Projected Annual Energy Costs:** without PV \$860, with PV -\$146
- **Projected Annual Energy Cost Savings:** (vs home built to 2012 IECC) without PV \$1,063, with PV \$2,070
- **Annual Energy Savings:** without PV 11,654 kWh, with PV 24,093 kWh

CONTACT

Dave Phillips
dave@philgreenco.com
970-672-0089

KEY FEATURES

- **Walls:** R-32, 2x6 walls, R-25 closed-cell spray foam plus R-6 insulated sheathing. R-26 open-cell spray foam in box sill and rim joist.
- **Roof:** 7/16 OSB sheathing, ice-and-water shield, drip edge, asphalt shingles.
- **Attic:** R-50 open-cell spray foam on underside of roof deck.
- **Foundation:** R-10 EPS at slab edge, R-10 spray foam under slab.
- **Windows:** Double-pane, vinyl-framed, low-e, argon-filled, U=0.28, SHGC =0.24.
- **Air Sealing:** 1.83 ACH 50.
- **Ventilation:** HRV.
- **HVAC:** Ground source heat pump 3.8 COP, 18.7 EER.
- **Hot Water:** Electric 50-gal, 0.98 EF, with desuperheater preheat.
- **Lighting:** 95% LED, 2 ENERGY STAR ceiling fans.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer and dryer.
- **Solar:** 8.56-kW PV.
- **Water Conservation:** Dual-flush toilets, WaterSense hot water distribution design; drought resistant plants.
- **Energy Management System:** Programmable thermostat; internet monitoring of PV production, HVAC, car charging station, hot water, and grid power use.
- **Other:** Electric car charging station, low-VOC paints, concrete counter tops and floors.

