



Meritage Homes

ReNEWable Home at Parkside | Orlando, FL | MeritageHomes.com



Photos courtesy of Meritage Homes

“Engineered advances in durability, performance, healthfulness, and resilience.” C.R. Herro, Meritage Homes



PROJECT DATA

- **Layout:** 6 bdrm, 5.5 bath, 2 fl, 5,778 ft²
- **Climate:** IECC 2A, hot-humid
- **Completed:** September 2017
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 43; with PV 16
- **Annual Energy Costs:** without PV \$1,750; with PV \$650
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,700; with PV \$3,300
- **Annual Energy Savings:** without PV 14,900 kWh; with PV 24,450 kWh
- **Savings in the First 30 Years:** \$145,900

KEY FEATURES

- **Walls:** R-30 insulated concrete panels.
- **Roof:** Reflective concrete roofing; polypropylene underlayment.
- **Attic:** Unvented attic, spray foam insulation.
- **Foundation:** R-30 rigid foam at slab edge, R-5 EPS under slab.
- **Windows:** Triple-pane, low-e3, argon-filled; U=0.25, SHGC=0.16, impact-resistant.
- **Air Sealing:** 1.53 ACH 50.
- **Ventilation:** Supply-side ventilation with off-peak seasonal controls; meets ASHRAE 62.2.
- **HVAC:** Minisplit heat pump, 13 HSPF, 20.5 SEER.
- **Hot Water:** Heat pump water heater, 2.24 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, clothes washer, and clothes dryer.
- **Solar:** 8.04-kW PV system.
- **Water Conservation:** WaterSense fixtures, greywater system.
- **Energy Management System:** Wi-Fi enabled thermostats, smart off-peak fresh air ventilation, energy monitoring.
- **Other:** Low-VOC and anti-microbial paint, VOC-catalyst drywall. Hurricane-resistant roof, walls, and window coverings; no wood in supporting structure. Passive solar design. UV reflecting cool roofing. Grid-optimized electrical design.

CONTACT

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