SUSTAINABILITY PRIORITIES

Check the environmental strategies you plan to incorporate into your dream home. Use this scorecard to prioritize passive design decisions and active systems.

Sunlight & Orientation 01

- [ ] Long walls oriented south for winter sun
- [ ] Overhangs sized for summer shade
- [ ] Largest windows on south face
- [ ] West glass minimized or well-shaded

Airflow & Ventilation 02

- [ ] Cross-ventilation paths through main rooms
- [ ] Operable windows on opposite walls
- [ ] Stack ventilation for multi-story spaces
- [ ] ERV/HRV for airtight envelope

Thermal Mass & Insulation 03

- [ ] Thermal mass on south-facing floors/walls
- [ ] Continuous insulation on building envelope
- [ ] Foundation insulation under slab and perimeter
- [ ] Thermal bridge-free detailing

Energy & Water Systems 04

- [ ] Solar PV panels oriented south
- [ ] Heat pump (air-source or geothermal)
- [ ] Energy-efficient windows (low-E, appropriate SHGC)
- [ ] Rainwater harvesting or greywater reuse

COST-BENEFIT REFERENCE

High ROI (Usually Worth It)
Extra insulation, air sealing, proper orientation (free!), ceiling fans, energy-efficient windows in extreme climates.

Medium ROI (Evaluate Carefully)
Triple-pane windows, heat pump water heaters, ERV/HRV systems, rainwater harvesting.

Long ROI (If Budget Allows)
Geothermal HVAC (15-25 yr payback), green roofs, extensive solar thermal.

YOUR TOP 5 PRIORITIES

Rank your five most important environmental strategies.

1.
2.
3.
4.
5.

ENVIRONMENTAL RESPONSE NARRATIVE

Describe how your building design responds to sunlight, wind, thermal mass, and energy systems on your site.