

Green, Sustainable, and High-Performance Design

For over twenty years Jonathan Lucas, the principal of What on Earth Architecture, has practiced a practical approach to sustainable/green design. Jonathan is a LEED Accredited Professional, is familiar with Healthy Built Homes standards, and has extensive experience, over a wide range of projects, with the issues and practices in green, sustainable, and high-performance design, including:

Site Considerations

- Solar orientation and modeling
- Low impact site design
- Runoff mitigation
- 3 D building on site modeling

Building Design

- Building envelope design and energy analysis
- Passive solar design and modeling
- Efficient task lighting
- day-lighting design and modeling

Materials and Products Selection

- Non-toxic material selection
- Material and product life cycle analysis
- Indoor air quality
- Use of local and reclaimed material

Systems Analysis and Coordination

- Analysis and coordination of building and site systems design including
- High efficiency heating,
- Ventilating and cooling
- Water supply, storage and purification
- Low impact septic systems
- Grey water systems
- Cost benefit analysis for solar thermal and solar electric systems