

Greening by Design

Sustainability using Architecture, Engineering, Lighting Design, Landscape Architecture, and Greenhouse Gas Reduction in Public Buildings

Sustainable designs in public buildings "green by design," as they use related specialized fields like Architectural Design, Landscape Architecture, Bioremediation, and Lighting Design to reduce greenhouse gas (GHG) emissions. The concrete and building industries emit up to 40% of global GHG, making substantial carbon footprint reduction with aggressive "greening" possible. Techniques include variations in power and heat cycles that make a building its own LPG (independent power generator) or a CHP (combined heat and power) source for an entire building development. Landscape architecture can "bio-remediate" polluted land, recover plant and animal species thought extinct, thus reducing net GHG, improving ecosystem recovery and raising climate change mitigation.

The main topics are:

- Decarbonizing techniques
- Carbon footprint
- Bioremediation
- LEED
- The public building sector
- Area-specific greening strategies
- Buildings as public educators
- "Big Wood"
- Lighting design
- Landscape architecture



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