Main issues

The objective of energy in community planning from a sustainability point of view is

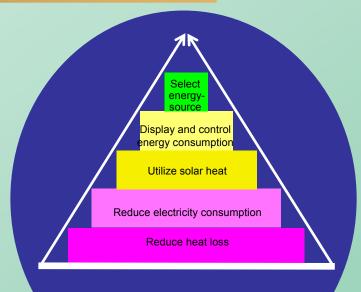
- To minimize the energy demand through appropriate planning and building design and
- To minimize the environmental impact of energy consumption by utilizing renewable energy, waste energy sources, and clean technologies





Recommendations

- Energy demand reduction
- On site low environmental impact sources
- On site renewable
- Energy storage systems
- Off site energy source/renewable
- Efficient energy use
- The kyoto pyramide, guiding
- principle IREES



The Kyoto Pyramide Passive energy design process



Examples

TREES

Energy demand reduction

Insulation, heat recovery



On site low environmental impact sources

Ground pump, Small Combined heat power

On/off site renewable

Biomass, PV, wind, hydro, geothermal

Energy storage systems

Seasonal heat cold storage in aquifers

Efficient energy use

Condensing gas boiler



Example Kruitberg Amsterdam



