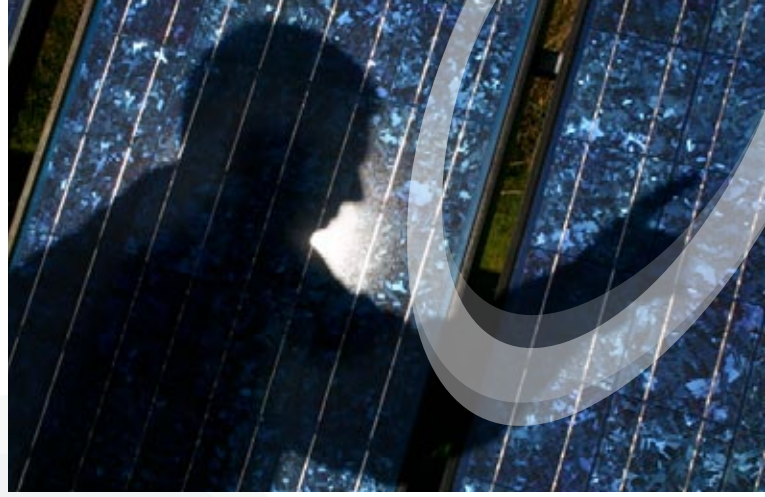


Sustainable house specification



Using renewable energy and earth warming gas-reduction technology.

Building

- Insulation – reduce normal from 600kWhr per m² to 100kWhr per m² per annum with insulation for floor, walls and roof.
- Consider Dublin House Technology – Heat collection and storage
- South facing living areas.
- Solar shades – using large triple glazed windows for sun gain and solar shades for shielding.



- Atrium conservatory on the south west side of the property with air pump duct and automatic windows on the roof (triple glazing)
- Tree shielding on the boundaries for wind protection.
- Sun pipes into windowless areas
- Composting toilets / waterless urinals / low flush toilet / septic tank
- Dehumidifying passive system (sealed house syndrome)
- Circulating hot water at taps (instant hot water)

Roof

- Photovoltaic array, cooled surfaces – Environmental Energy Technology, Cardiff University
- Water collection system for grey water and / or for white water with sand, reverse osmosis and ultra violet treatment



- Minimum 1,000 gallon underground tank for storage or roof water, an external pond overflow.
- Evacuated tube heaters on the roof – solar powered cooling / heating and electricity production (CHP solar)

Power

- CHP heating and cooling air system
- Heat pump using stream or pond
- Air system of heating and cooling the house (as opposed to water radiators)
- Low energy light bulbs
- Pulse jet boiler (100% condensing boiler, standard condensing not condensing when hot)

Wind turbine

- 90% buy back by the utility and nett back meter with nett costs, meter being charged only.

For further details go to our website or ring us on 01509 610 033.

