



Lifestyle Garden Centre - Randburg Gauteng Solar hot water system for floor heating and sanitary demand



Systems consists of a 30 000 litre storage vessel, 480 m² of solar panels, mainly feeding a +1 200 m² underfloor heating system for shops, offices and sensitive plants during winter. In addition hot water is provided to the change rooms. Total energy saving is estimated at 240 000 kWh/annum.

Mondi - Hilton, KZN Propagation greenhouse with heat pumps



2 880 m² of floor area consisting of 6 bays, 480 m² each, kept at variable temperatures ranging from 15°C to 35°C. An accuracy of 1°C variance is maintained. Utilizing heat pump technology, the total hourly load of 438 kWatt was reduced to an input of 132 kWatt. Total potential saving for Mondi is estimated at 3 600 kWatt/ day

Woolworths Distribution Centre - Pinetown & Montague Gardens Cold room floor heating with heat recovery



By a process of heat recovery, free energy is harvested from the refrigeration plant and circulated through PEX tubes to the cold room floors. Due to temperatures ranging far below 0°C, the free heat energy is utilized to prevent the floor from freezing up and ultimately cracking. Electrical elements are installed as back-up.

Specialist Wholesale Nursery - Hopefield, Western Cape Propagation green house with solar and heat pumps



Nursery specializes in production of potted plants, ranging from Protea cultivars to Geraldton Wax Flowers for garden centres and landscapers. 94 movable tables of 1.6m X 5m are maintained at a constant 23°C soil temperature, utilizing bulk hot water storage heated by solar panels and heat pumps as supplement.