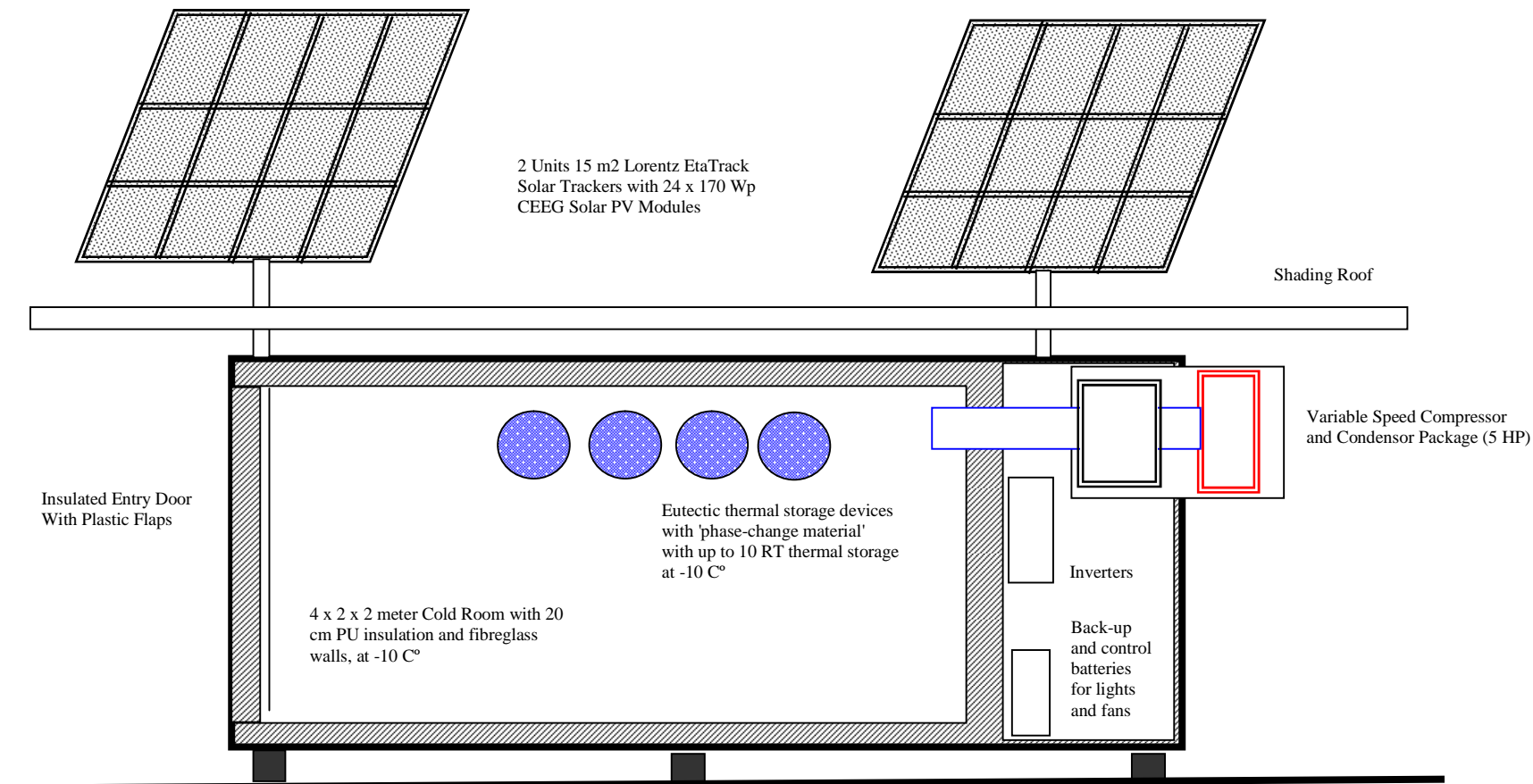




## Contained Energy Solar-Powered Cold Storage Container





### Concept Notes

- 20 m<sup>3</sup> Cold Storage in 20 ft container (or modular panels) with double PU insulation and fiberglass or aluminum walls
- -5 to -10 C° design temperature in 30 C° outside temperature
- 5 PK Variable Speed Controller Compressor (highly-energy efficient) cools room during the day AND 'charges' the Thermal Energy Storage units
- Powered by solar electricity (direct) during the day, from 24 x 170 Wp PV modules on solar trackers, providing up to 30 kWh electricity per day
- Thermal Energy Storage with Eutectic phase-change materials provide up to 30 kWh cooling during the night
- Battery system for lights and controls, also functions as back-up assistance
- Shade roof keeps heat out
- Modular equipment for minimum simple maintenance
- Includes spare parts and training