

# BUNDANOON NET ZERO COTTAGE

Owners/Designers Glenn and Lee Robinson

Climate Zone 7 Cool Temperate Completed April 2012



Project aim was to show it is not expensive or complicated to build a highly energy efficient home



Comprehensive passive solar design. North facing windows.



Well insulated and sealed. Concrete floor for thermal mass



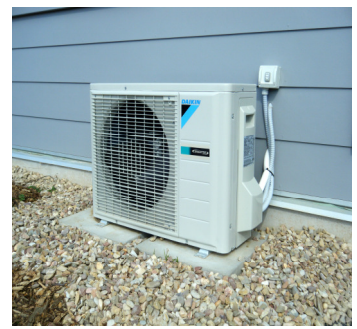
Centralised galley kitchen



Compact Laundry



Plant room adjacent to hot water taps



Our rarely used heat pump COP 5  
0.8kW electricity in 4kW heat out



Almost twice the energy exported as imported over 12 month period with only 2kW of photovoltaic panels

## Insulation

Under Roof R1.5 Blanket

Above Ceiling R3.5 Batts

Walls R2 Batts

Slab Edge R2 Foam

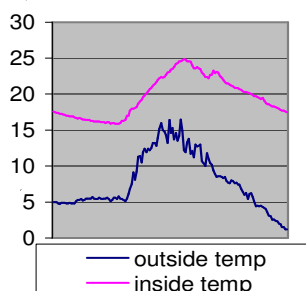
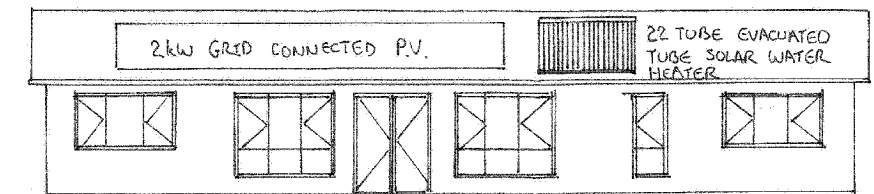
## Windows

Composite Construction

Double 4mm Glazing

12mm Argon Charged Gap

Double Gasketed, Casement



July 10th temperature cycle. With no auxiliary heating used

