



The Building Industries Trusted Partner for Solar and Energy Solutions.

Six Star Plus, a trusted leader within the building industry boasting over 15 years of experience and thousands of installations.

Specializing in solar and energy solutions for builders, and commercial clients.

Our comprehensive range of products include solar energy systems, batteries, electric vehicle charging, hot water systems, heat pumps, hydronic heating and heat recovery ventilation systems (HRV).



Changes to National Construction Code – NCC 2022.

Residential buildings (Class 1 and 2)

- Increase in minimum thermal performance for the building shell to 7 stars.
- Introduction of "Whole of Home" annual energy use budget being offset by solar.
- Removal of variation that requires either a solar hot water system or rainwater tank to be installed.

Commercial buildings including apartments (Class 2-9)

 Requirements to ensure commercial building are designed for retrofit of solar PV systems and electric vehicle charging. 1. Design and Build your home to a minimum thermal performance rating of 7 stars so it needs less energy to heat and cool

Use less energy

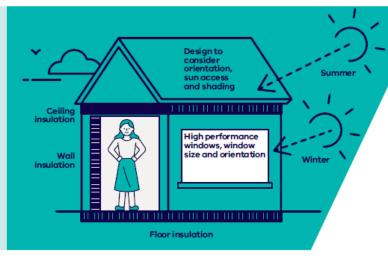


2. Choose fixed appliances that are more energy efficient so you need less energy to power your home

Use efficient appliances

your remaining energy usage and meet your Whole-of-Home budget

energy







3. Install rooftop solar to help offset

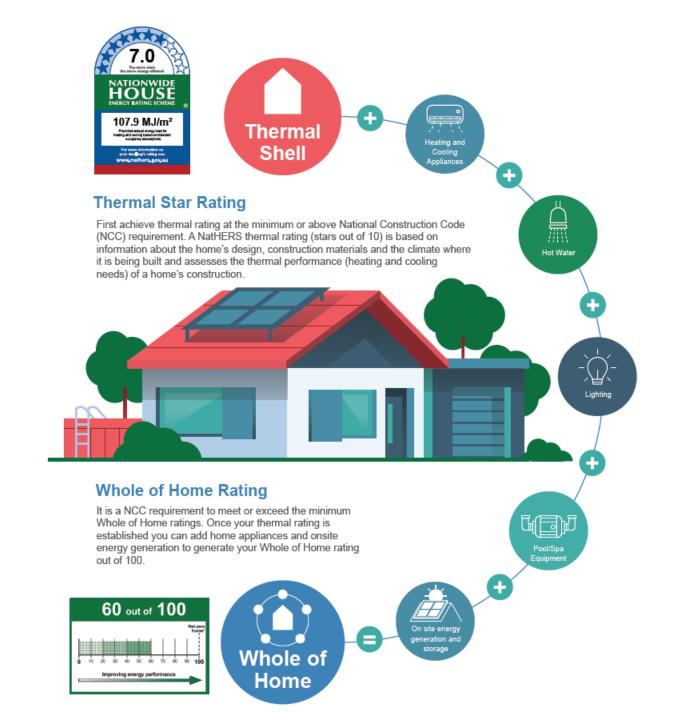
Use renewable

Building to achieve efficiency standards

- **Involve your energy assessor early!!**
- Design, layout and orientation are key.
- High levels of insulation is critical.
- High performance window size, type and location.
- Choose energy efficient appliances.
- Thermal bridging for steel frames.
- Air tightness and ventilation.
- Offset power usage by installing a solar energy system (PV).



Using NatHERS to pass NCC Energy Efficiency Requirements





Energy efficient hot water

- Hot water, heating and cooling accounts for approximately 70-80% of a home's annual energy usage.
- Hot water alone accounts for approximately 21% of energy usage.
- The use of a quality energy efficient electric hot water heat pump can significantly reduce this figure by up to 80%.





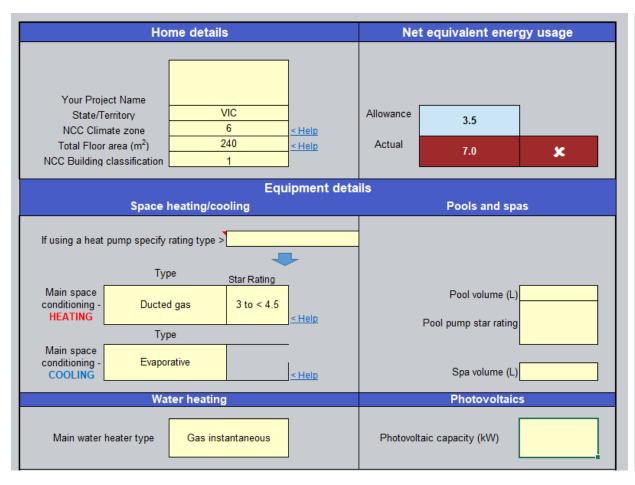


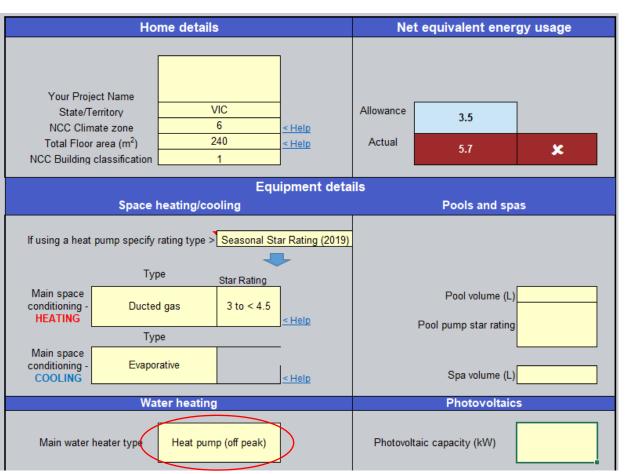




ABCB - Whole of Home Calculator



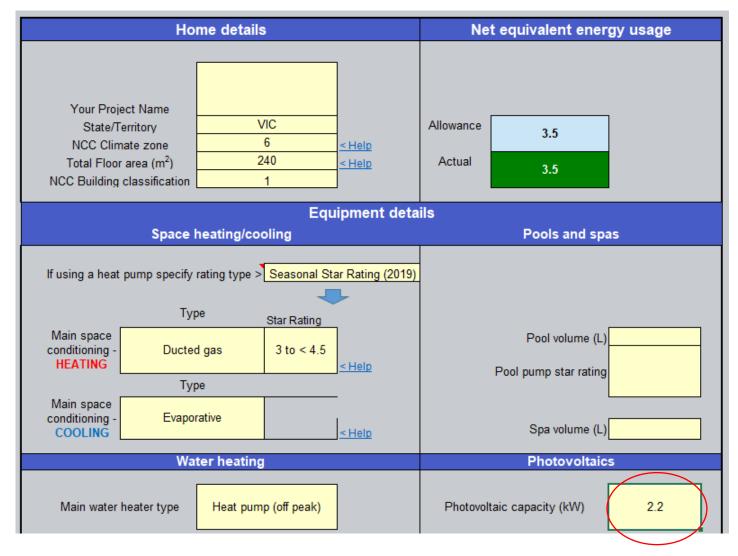




Gas continuous flow hot water

Addition of electric heat pump hot water

Effect of solar energy offset



Adding even a small 2.2kW solar system consisting of only 5 panels makes a considerable difference to your assessment.

Solar represents the greatest return on investment to ensure you achieve whole of home compliance.



New electric vehicle and solar readiness provisions for apartment and commercial buildings (Class 2-9)

Electric Vehicle Charging

Space provisions for switchboards and charging infrastructure.

- Apartment buildings 100% of car park spaces.
- Office and retail buildings 10% of car park spaces.
- Other commercial buildings 20% of car park spaces.

Solar Photovoltaic (PV)

Allocation of at least 20% of roof space for future installation of solar.



Installation of PV during construction

To combat theft of system components installations should always be done in 2 stages.

Stage 1

 Once roof is complete and fall protection still in place panel arrays are installed and wiring rough in completed.

Stage 2

- Prior to hand over inverters, batteries and electric vehicle chargers are installed.
- System tested and commissioned.







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