

# Sustainability Victoria 7-Star Homes Program Design & Construction Training - Participant Resource Sheet

## Training Slide Decks

[Design Training](#)

[Construction Training](#)

## 7-Star Homes Program

[Sustainability Victoria 7 Star Homes Program](#)

[Insulation installation and air tightness videos](#)

[The ins and outs of as-built verification](#)

The 7 Star Homes team is available to answer any questions you may have about the program.  
Phone: **1300 363 744** (within Victoria) or **03 8626 8700** (outside Victoria) and ask to speak to a member of the 7 Star Homes team.

Email: [homes@sustainability.vic.gov.au](mailto:homes@sustainability.vic.gov.au)

## SV Whole-of-Home Pilot Tool

[Sustainability Victoria \*FirstRate5\* Whole-of-Home Pilot Tool](#)

[Positive impacts of a whole-of-home approach on energy performance](#)

## Design Training Module

STEP 1 - USING PASSIVE SOLAR DESIGN TO ACHIEVE 7«+ PERFORMANCE

[Sustainability Victoria Energy Smart Housing Manual](#)

<https://assets.sustainability.vic.gov.au/susvic/Guide-Energy-Smart-Housing-Manual.pdf>

[Wind Roses](#)

[http://www.bom.gov.au/climate/map/climate\\_avgs/clim\\_avg1.shtml](http://www.bom.gov.au/climate/map/climate_avgs/clim_avg1.shtml)

[Window Energy Rating Scheme \(WERS\) Database \(Victoria\)](#)

<https://awawers.net/resserch/search/vic>

[Further Home Sustainability Information](#)

<https://www.yourhome.gov.au/>

## STEP 2 - USE FIRSTRATE5 AS A DESIGN TOOL TO FURTHER IMPROVE THE RATING

To find a Thermal Performance Assessor for Thermal Improvement at design stage (& final Compliance )

<https://www.designmatters.org.au/Web/Members-Directory/Member-Directory.aspx?WebsiteKey=57d2f0d3-9bc3-4f0f-9323-4f51d3bf6e72&MemberDirectory=2#MemberDirectory>

## STEP 3 - EFFICIENT APPLIANCE SELECTION

To Size Airconditioner capacity

<https://fairair.com.au/>

To search for Airconditioner efficiency

[https://reg.energyrating.gov.au/comparator/product\\_types/](https://reg.energyrating.gov.au/comparator/product_types/)

(Choose Airconditioning)

To lookup system efficiency of Solar Hot Water & Heat Pumps on the STC Calculator

REC Registry: <https://www.rec-registry.gov.au/rec-registry/app/calculators/swh-stc-calculator>

Information sheet for clients on the benefit of choosing appliances with high stars

[https://www.energyrating.gov.au/sites/default/files/documents/15-44830\\_Energy\\_Rating\\_Label\\_-\\_A4\\_flyer\\_-\\_WEB\\_05\\_0.pdf](https://www.energyrating.gov.au/sites/default/files/documents/15-44830_Energy_Rating_Label_-_A4_flyer_-_WEB_05_0.pdf)

To look for efficient appliances (Washers, Driers, Computer Monitors, Dishwashers, Fridges, TVs, & Pool Pumps)

[https://reg.energyrating.gov.au/comparator/product\\_types/](https://reg.energyrating.gov.au/comparator/product_types/)

(Choose appropriate appliance from the list and use the table to rank by preferences & efficiency)

Appliance running costs calculator to compare costs of different models

<https://www.energyrating.gov.au/calculator>

Appliance reviews

<https://www.choice.com.au/>

Find an Approved Solar Retailer

<https://www.cleanenergycouncil.org.au/consumers/buying-solar/find-an-approved-solar-retailer>

Current Rebates in your State

<https://www.energy.gov.au/rebates>

## STEP 4 - INCLUDE SOLAR & CAR CHARGING

To work out PV sizes for Net Zero Use the SV Whole of Home Tool and run various scenarios to determine size

<https://sustainabilityvictoria.smartygrants.com.au/applicant/login>

To compare costs of various panel/inverter/battery options here's a useful website to try

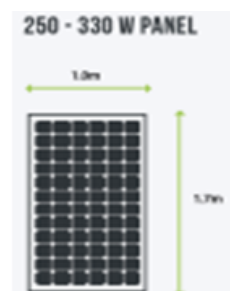
<https://www.solarchoice.net.au/>

Find an Approved Solar Retailer

<https://www.cleanenergycouncil.org.au/consumers/buying-solar/find-an-approved-solar-retailer>

To allow roof area for Photovoltaic panels in Design

**5.1-6.8m<sup>2</sup> / kWp**



## STEP 5 - AS BUILT VERIFICATION

As Built Verification Checklist to follow during the Construction

<https://assets.sustainability.vic.gov.au/susvic/Factsheet-energy-ABV-Zero-Net-Carbon-Homes.pdf>

To find a Blower Door Tester (& Thermal Imaging)

<https://www.bcta.group/attma/members/air-tightness-testers/australia/>

# Construction Training Module

## AS BUILT VERIFICATION

To find a Blower Door Tester

<https://www.bcta.group/attma/members/air-tightness-testers/australia/>

## ARTICLES & GUIDES

Building Science Corporation – The Perfect Wall

<https://www.buildingscience.com/documents/insights/bsi-001-the-perfect-wall>

Building Wraps – Timber Frame Application and Fixing Guide

<https://shop.laros.com.au/wp-content/uploads/2021/07/20210705-Extasana-Application-Guide.pdf>

Building Science Fight Club (Instagram Account)

<https://www.instagram.com/buildingsciencefightclub/>

## VIDEOS

Understanding Building Air Tightness

<http://aivaa.asn.au/basics-of-sealing/>

COAG Energy council: Building for a Better Seal

Australian Glass and Window Association: How to install aluminium window into lightweight construction

<https://www.youtube.com/watch?v=t9Ty95hZo38>

Sealing Bulkheads

SV Video: <https://www.youtube.com/watch?v=1BmYXotoy5E>

[https://www.youtube.com/watch?v=VRzsZB\\_aSI0](https://www.youtube.com/watch?v=VRzsZB_aSI0)

Sealing Penetrations – Pipes and Wiring

SV Video: [https://www.youtube.com/watch?v=uEh\\_Qzcx04k&t=6s](https://www.youtube.com/watch?v=uEh_Qzcx04k&t=6s)

[https://www.youtube.com/watch?v=HBB9G\\_gSDjo](https://www.youtube.com/watch?v=HBB9G_gSDjo)

Other interesting videos: Matt Risinger

<https://www.youtube.com/MattRisinger>

