This form outlines what Residential Efficiency Scorecard (Scorecard) data is available to third parties and includes an application form to access this data.

## **About the data**

The Scorecard database holds data on the energy related features of existing homes collected by accredited assessors across Australia. This data is held and managed by the Victorian Department of Energy, Environment and Climate Action (the Department). Assessors collect data including room sizes, construction materials, window type, placement and furnishings, insulation, hot water system, heating, cooling, lighting and any renewable energy sources.

The assessment includes photographing household energy features for quality assurance purposes. Skilled assessors collect several hundred data points from homes which they enter into a complex cloud-based tool. The tool calculates the thermal performance of each room and the energy use of the main fixed energy using features and contributions by renewable energy. A certificate is issued with an overall home rating based on the average energy cost to run the home, ratings of the main energy using appliances compared to best in class, greenhouse gas emissions and the hot and cold weather performance of the home. Improvement options are suggested based on improvements to the overall rating.

The Scorecard dataset can be valuable for researchers: the data is of high quality being collected by skilled assessors against clear rules. It focuses on existing homes, a sector where data has previously been harder to source.

Appendix A sets out the specific data items that may be requested.

### Key information on the data set

* The Victorian data set starts in 2017
* The national data set starts in 2018
* Scorecard technical basis, features covered and the approach to calculations are here [Technical basis for Scorecard (homescorecard.gov.au)](https://www.homescorecard.gov.au/__data/assets/pdf_file/0024/621924/Technical-basis-for-Scorecard.pdf).

## **Data sharing privacy requirements**

Personal information (from which an individual’s identity may be ascertained) in the data is protected by the Privacy and Data Protection Act 2014 (Vic). Privacy protected data such as the householder’s name, address and contact information cannot be shared unless the householder has consented to the specific use.

Data on the house features and house postcode is generally not privacy protected and may be shared if the following form is fully completed to the satisfaction of the Department and a licence agreement entered into. Generally, data will be provided only in a form whereby householder privacy is protected.

If the householder has consented to sharing privacy protected data, the department will consider if this data will be shared on a case-by-case basis. Such requests will only be considered if the research generates a community benefit, is not used for commercial purposes, and standards for managing private data are demonstrated to be robust. The Department at its discretion, maintains the right to not share privacy protected data. The Information Privacy Principles in the *Privacy and Data Protection Act 2014* and the whole of Victorian Government IP Policy and Guidelines at <https://www.vic.gov.au/intellectual-property-policy> will be used to guide this decision.

The purposes for which personal information can be used for, as set out in the Privacy Collection Statement are as follows from April 2022:

* relevant government departments with responsibilities in the areas of environment, planning, energy, regulation, health and safety, for the purposes of policy development
* relevant government departments to contact the householder for research purposes or to advise them of other government programs
* government departments, academic researchers and other delivery partner organisations related to a specific project or program if specific consent is provided by the householder
* trusted third parties bound to the Privacy Act to survey your satisfaction with this energy assessment service, conduct quality assurance audits or validate the rating of a property
* academic researchers that fulfil the Department’s requirement that the research be for common good if specific consent is provided by the householder
* organisations who can offer energy upgrade services to the householder if specific consent is provided by the householder.

Personal information held includes name, street address, phone number and email. Personal information must not be published in relation to any of above purposes.

If your project or research requires the provision of personal information, you will need to work with the Scorecard team to develop an appropriate Privacy Statement and Consent Form **prior to work commencing**.

General note: data is generally provided free of charge except where there is a material cost to extract the data or the department is being requested to contact householders.

The Department is able to use the intellectual property derived from this research for the purposes of policy development, promotion of the Scorecard or any other purpose.

## Application form

Please complete this form and submit to help.scorecard@delwp.vic.gov.au.

The information provided will be used to assess Residential Efficiency Scorecard data access requests. If the request is granted to access the data you will need to sign the licence agreement.

Note: access to data requires a clear and well supported approach to data analysis to be provided. This is to give the Department a level of assurance that the data will not be misrepresented and potentially bring the program into disrepute. Also, that the data can be provided in a way that is suitable for the applicant to use and does not generate undue cost to the department to provide the data.

Further detail on the Residential Efficiency Scorecard can be found here:

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

### Contact details

|  |  |
| --- | --- |
| **Name of organisation supporting application** |  |
| **Name of applicant** |  |
| **Position of applicant in organisation** |  |
| **Contact phone number** |  |
| **Contact email** |  |

### Project request details

|  |  |
| --- | --- |
| **Title of project** |  |
| **List project sponsor(s) and their role in the project***Eg XYZ University Masters Degree project**Or**Business startup with funding provided by ABC builders* |  |
| **Project start and end date** |  |
| **Summarise the purpose of the project** |  |
| **Describe the project outputs and whether they will be publicly released** *Eg research paper to be submitted for publication,* *or**develop an app for commercialisation* |  |
| **Will the project generate a potential commercial benefit for any person, business or organisation?** If so, summarise this commercial benefit |  |
| **Will the project generate a potential community benefit?** If so, summarise this community benefit |  |
| **What outputs will the project provide to the department?***Eg the project will provide the final research paper to the department, for information only, likely to be within 6 months of receiving the data.* |  |

### Data request details

|  |  |
| --- | --- |
| **What question(s) will the Scorecard data be used to answer?**  |  |
| **A standard data set will be provided (see Appendix A)****If you have any particular requirements in addition, please describe**eg* *date range,*
* *location inclusions/exclusions*
 |  |
| **Describe the method the project will use to analyse the Scorecard data** *eg Analysis will use pivot tables to identify non-statistical associations between built form and hot weather performance.* *or**Analysis will consider the statistical association between open chimneys and low cold weather ratings.* |  |
| **Data will be provided as a CSV file, please note if this will be an issue** |  |

### Privacy protected data request details

Note that if privacy protected data is provided then the organisation must ensure that they comply with the Privacy and Data Protection Act 2014 (Vic).

|  |  |
| --- | --- |
| **Are you requesting any privacy protected location data?** *Eg house address* |  |
| **Are you requesting any privacy protected contact data?** *Eg householder name or contact details.***Note that as a general rule this data will not be provided directly. The Department may contact householders on behalf of a researcher.** |  |
| **If yes,** **What data do you require and why is it essential that you have access to this data?** |  |
| **How will this data be used?** |  |
| **Provide a detailed description (or attach) details of how the data will be stored, protected and disposed of** |  |
| **Provide the organisational systems and processes will be used to protect the data** |  |
| **How will the Department share this data with you securely? (eg end user secure data portal)** |  |

# Appendix A: National Scorecard Standard output data

| **Data Item Heading** | **Column** | **Note** | **Unit** | **Input by** | **Further note** |
| --- | --- | --- | --- | --- | --- |
| **AssessmentNumber** | B  | Assessment number. ARNxxxxxx  |   | generated in tool  | shown on certificate  |
| **Assessor** | C  | Assessor number  |   | generated in tool  | shown on certificate  |
| **AssessmentDate** | D  | Creation date. The date the assessment was created.  |   | generated in tool  | shown on certificate  |
| **FinalisationDate** | F  | Date the assessment was finalised.  |   | generated in tool  |   |
| **PostCode** | G  | Post code. Used to work out which climate zone the house is in  |   | assessor  | shown on certificate  |
| **WhoPaid** | I  | Was the assessment fully paid, part paid or the householder paid nothing. Button introduced Oct 2018.  |   | assessor  | options are: paid nothing, paid part and paid all.  |
| **CE\_StarRating** | L  | Star rating. Based on the cost to run the fixed appliances in the house  | out of 10  | calculated in tool  | shown on certificate  |
| **CE\_DecimalStarRating** | M  | Star rating in decimals. Based on the cost to run the fixed appliances in the house  | out of 10  | calculated in tool  | shown on certificate  |
| **BuildingShell****Description** | O  | Building shell rating. Thermal shell rating. Superseded with cold weather rating.  | 1 to 5 bars  | calculated in tool  | Superseded by cold weather rating in March 2020.  |
| **HotWeatherRating** | N  | Hot weather rating. How easy it is to keep house cool during summer. Based on thermal load over summer  | 1 to 5 bars  | calculated in tool  | 1-very hard, 2-hard, 3-medium, 4-easy, 5-very easy to keep a house cool. shown on certificate  |
| **ColdWeatherRating** | P  | Cold weather rating. How easy it is to keep house warm in winter. Based on thermal load over winter.  | 1 to 5 bars  | calculated in tool  | 1-very hard, 2-hard, 3-medium, 4-easy, 5-very easy to keep a house warm. shown on certificate.   |
| **CE\_LightingRating****Description** | Q  | Lighting rating. Based on number of halogens entered and size of house  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. Houses without halogens will get 5 bars. shown on certificate  |
| **HeatingPercentage** | R  | Heating percent of energy cost. % of energy cost of fixed appliances that is used for heating  | %  | calculated in tool  | shown on certificate  |
| **CoolingPercentage** | S  | Cooling percent of energy cost. % of energy cost of fixed appliances that is used for cooling  | %  | calculated in tool  | shown on certificate  |
| **LightingPercentage** | T  | Lighting percent of energy cost. % of energy cost of fixed appliances that is used for lighting  | %  | calculated in tool  | shown on certificate  |
| **HotWaterPercentage** | U  | Hot water heating percent of energy cost. % of energy cost of fixed appliances that is used for hot water heating  | %  | calculated in tool  | shown on certificate  |
| **PoolsSpasPercentage** | V  | Pools/spas percent of energy cost. % of energy cost of fixed appliances that is used for pools or spas  | %  | calculated in tool  | shown on certificate  |
| **RenewableEnergy****Percentage** | W  | PV percent of energy cost. % of energy use that is met by PV production. Uses electricity and gas use  | %  | calculated in tool  | shown on certificate  |
| **Const\_DateID** | X  | Construction date - may be renovation date  |   | assessor  | if the house is more than 50% renovated, then the renovation date is entered here. Can’t be relied upon to work out age of house.  |
| **NumberOfStoreys** | Y  | number of storeys  |   | assessor  |   |
| **CE\_House\_Area** | Z  | house area as measured by assessor  | m2  | assessor  | each zone is measured then summed in the tool. shown on certificate  |
| **CE\_House\_Volume** | AA  | house volume  | m3  | calculated in tool  |   |
| **CE\_Heating\_Area** | AB  | Heated area. Area of the house that is heated  | m2  | calculated in tool  | shown on certificate  |
| **CE\_Cooling\_Area** | AC  | Cooled area. Area of the house that is cooled  | m2  | calculated in tool  | shown on certificate  |
| **Heater\_Type\_1** | AD  | Heater type. Heater 1 is the primary heater - it costs the most to run.   |   | assessor  | shown on certificate. note that if no heater is entered then electric radiator is assumed to heat the largest zone in the house.  |
| **Heater\_Stars\_1** | AE  | Heater star rating.  |   | assessor  |   |
| **Heater\_Year\_1** | AF  | Heater year of manufacture  |   | assessor  |   |
| **Heater\_Score\_1** | AG  | Heater efficiency rating. Cost efficiency based on type, star and year  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. How much it costs to run in comparison to other heaters on the market. shown on certificate  |
| **Heater\_Type\_2** | AH  | Heater type. Heater that costs the second most to run.  |   | assessor  | shown on certificate  |
| **Heater\_Stars\_2** | AI  | Heater star rating  |   | assessor  |   |
| **Heater\_Year\_2** | AJ  | Heater year of manufacture  |   | assessor  |   |
| **Heater\_Score\_2** | AK  | Heater efficiency rating. Cost efficiency based on type, star and year  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. How much it costs to run in comparison to other heaters on the market. shown on certificate  |
| **Cooler\_Type\_1** | AL  | Cooler type. Cooler 1 is the primary cooler - it costs the most to run.   |   | assessor  | shown on certificate  |
| **Cooler\_Stars\_1** | AM  | Cooler star rating for cooling  |   | assessor  |   |
| **Cooler\_Year\_1** | AN  | Cooler year of manufacture  |   | assessor  |   |
| **Cooler\_Score\_1** | AO  | Cooler cost efficiency. Cost efficiency based on type, star and year  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. How much it costs to run in comparison to other coolers on the market. shown on certificate  |
| **Cooler\_Type\_2** | AP  | Cooler type. Cooler that costs the second most to run.  |   | assessor  |   |
| **Cooler\_Stars\_2** | AQ  | Cooler star rating  |   | assessor  |   |
| **Cooler\_Year\_2** | AR  | Cooler year of manufacture  |   | assessor  |   |
| **Cooler\_Score\_2** | AS  | Cooler efficiency rating. Cost efficiency based on type, star and year  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. How much it costs to run in comparison to other coolers on the market.  |
| **HWS\_Type\_1** | AT  | Hot water heater type. HWS 1 is the primary hot water system - it costs the most to run.   |   | assessor  | shown on certificate  |
| **HWS\_Solar\_1** | AU  | Hot water heater – solar. Is it connected to solar?  |   | assessor  | shown on certificate  |
| **HWSResults\_Score\_1** | AV  | Hot water heater efficiency rating. Based on type, star and if solar  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. How much it costs to run in comparison to other hot water systems on the market. shown on certificate  |
| **HWS\_Star\_1** | AW  | Hot water system star rating  |   | assessor  |   |
| **HWS\_Type\_2** | AX  | Hot water heater type. Hot water system that costs the second most to run  |   | assessor  | shown on certificate  |
| **HWS\_Solar\_2** | AY  | Hot water heater – solar. Is it connected to solar?  |   | assessor  | shown on certificate  |
| **HWSResults\_Score\_2** | AZ  | Hot water heater efficiency rating. Based on type, star and if solar  | 1 to 5 bars  | calculated in tool  | 1-very low, 2-low, 3-medium, 4-high, 5-very high. How much it costs to run in comparison to other hot water systems on the market. shown on certificate  |
| **HWS\_Star\_2** | BA  | Hot water system star rating  |   | assessor  |   |
| **AverageCeilingInsulation** | BB  | Average ceiling insulation R value for whole house. If insulation can't be seen, then rules are used from Software Manual.  | R value  | assessor  | For double storey houses, only the zones with attic above are averaged. For apartments with neighbour above for whole ceiling, result will come back at zero.  |
| **AverageWallInsulation** | BC  | Average external wall insulation R value for whole house. If insulation can't be seen, then rules are used from the Software Manual.  | R value  | assessor  | "Houses built before 1991, assume no insulation · For houses built between 1991 and 2004, assume R1.5 for a timber floored house and foil for a house on a slab floor · For houses built between 2004 and 2010, assume R1.5 · For houses built after 2010, assume R2.0."  |
| **AverageFloorInsulation** | BD  | Average floor insulation R value for whole house  | R value  | assessor  |   |
| **SharedCeiling** | BE  | Shared ceiling area. Area of ceiling that is shared with a neighbour.  | m2  | assessor  |   |
| **PrimaryExternal****WallType** | BF  | Primary external wall type  |   | assessor  |   |
| **SharedWallArea** | BG  | Shared wall area. Fraction of the external wall that is shared with neighbours  | fraction out of 1  | assessor  |   |
| **PrimaryFloorType** | BH  | Primary floor type  |   | assessor  |   |
| **SharedFloorArea** | BI  | Shared floor area. Area of floor shared with neighbour   | m2  | assessor  |   |
| **TotalGlazingArea** | BJ  | Total glazed area of house  | m2  | assessor  |   |
| **GlazingAreaNorth** | BK  | Glazed area facing north  | m2  | assessor  | "North is 330o to 40o East is 41o to 155o South is 156o to 220o West is 221o to 329o "  |
| **GlazingAreaEast** | BL  | Glazed area facing east  | m2  | assessor  |   |
| **GlazingAreaWest** | BM  | Glazed area facing west  | m2  | assessor  |   |
| **GlazingAreaSouth** | BN  | Glazed area facing south  | m2  | assessor  |   |
| **TotalGlazingArea****HighPerformance** | BO  | Total area of high performance glazing (not single or toned)  | m2  | assessor  |   |
| **PercentageOf****WindowsSealed** | BS  | Fraction of windows sealed  | fraction out of 1  | assessor  |   |
| **NumberofUnsealedDoors** | BT  | Number of external doors that are unsealed.  |   | assessor  | if a door is more than half glass, then it is entered as a window, and not a door.  |
| **NumberofSealedDoors** | BU  | Number of external doors that are sealed.  |   | assessor  | if a door is more than half glass, then it is entered as a window, and not a door.  |
| **NumberOfChimneys** | BV  | Total number of chimneys  |   | assessor  |   |
| **NumberOfChimneyswithDamper** | BW  | Number of chimneys with a damper  |   | assessor  |   |
| **NumberofUnsealedFans** | BX  | Number of unsealed fans  |   | assessor  |   |
| **NumberofSealedFans** | BY  | Number of sealed fans  |   | assessor  |   |
| **TotalHolesCracksArea** | BZ  | Total holes and cracks. Sum of all gaps/cracks inputted for each zone   | cm2  | assessor  | sums the data entered by an assessor. Does not include air leakage from appliances etc.  |
| **AverageShowerFlowRate** | CA  | Average of shower flow rates in house as measured by the assessor  | L/min  | assessor  |   |
| **NumberOfHalogens** | CB  | Number of halogen downlights found in a house  |   | assessor  | sum of halogen sealed, halogen minimal air leakage, halogen large air leakage and non-halogen large air leakage.  |
| **ScorecardModelled****Occupancy** | CC  | Modelled Occupancy. Based on floor area of house i.e. X m2 means y people live here  | number of people  | calculated in tool  | mainly impacts amount of hot water used (more showers)  |
| **RoofColour** | CD  | Roof colour. Can be light, medium or dark.  |   | assessor  |  based upon solar absorptance rates in the National Construction Code |
| **WallColour** | CE  | Wall colour. Can be light, medium or dark.  |   | assessor  |   based upon solar absorptance rates in the National Construction Code |
| **NumRoofVent** | CF  | Number of roof vents. This is for wind or electrical powered roof ventilators (whirly birds)  |   | assessor  |   |
| **WallEaveN** | CG  | Wall eave north. Average eave length on north side of house.  | mm  | assessor  |   |
| **WallEaveE** | CH  | Wall eave east. Average eave length on east side of house.  | mm  | assessor  |   |
| **WallEaveS** | CI  | Wall eave south. Average eave length on south side of house.  | mm  | assessor  |   |
| **WallEaveW** | CJ  | Wall eave west. Average eave length on west side of house.  | mm  | assessor  |   |
| **CeilingFan900** | CK  | Number of 900mm fans in house.  |   | assessor  |   |
| **CeilingFan1200** | CL  | Number of 1200mm fans in house.  |   | assessor  |   |
| **CeilingFan1400** | CM  | Number of 1400mm fans in house.  |   | assessor  |   |
| **HighlyOpenableWindowArea** | CN  | Highly openable window area. Only for windows that open nearly 100% like louvres and casements.  | m2  | assessor  |   |
| **SolarPvSystemSize1** | CO  | PV system size. Records first PV system input into the tool  | kW  | assessor  |   |
| **SolarPvSystemSize2** | CP  | PV system size. Records second PV system input into the tool.  | kW  | assessor  |   |
| **EnergyCost** | CS  | Energy cost to run fixed appliances including PV contribution  | $/year  | calculated in tool  | directly used to determine star rating  |
| **EnergyElec** | CT  | Energy use from electricity. Peak electricity usage in a year  | MJ/year  | calculated in tool  |   |
| **EnergyElecOffPeak** | CU  | Energy use from off peak electricity. Off peak electricity usage in a year  | MJ/year  |  calculated in tool  |   |
| **EnergyGas** | CV  | Energy use from natural gas  | MJ/year  |  calculated in tool  |   |
| **EnergyLPG** | CW  | Energy use from LPG  | MJ/year  | calculated in tool  |   |
| **EnergyWood** | CX  | Energy use from wood  | MJ/year  | calculated in tool  | Calculation not working properly before April 2019.  |
| **EnergyCostNoPV** | CY  | Energy cost no pV. Energy cost to run fixed appliances. Does not account for any PV production.  | $/year  | calculated in tool  | calculation introduced April 2019.  |
| **Cold\_Weather\_Hint\_1** | CZ  | Cold weather hint. Improvement option that has a significant impact on the Cold weather rating.   |   | calculated in tool  | One in each category (insulation, glazing and air leakage) that has the biggest impact above a threshold point. shown on certificate  |
| **Cold\_Weather\_Hint\_2** | DA  | Cold weather hint. Improvement option that has a significant impact on the Cold weather rating.  |   | calculated in tool  | One in each category (insulation, glazing and air leakage) that has the biggest impact above a threshold point. shown on certificate  |
| **Cold\_Weather\_Hint\_3** | DB  | Cold weather hint. Improvement option that has a significant impact on the Cold weather rating.   |   | calculated in tool  | One in each category (insulation, glazing and air leakage) that has the biggest impact above a threshold point. shown on certificate  |
| **Hot\_Weather\_Hint\_1** | DC  | Hot weather rating hint. Improvement option that has a significant impact on the hot weather rating.  |   | calculated in tool  | One in each category (insulation, glazing and air leakage) that has the biggest impact above a threshold point. shown on certificate  |
| **Hot\_Weather\_Hint\_2** | DD  | Hot weather rating hint. Improvement option that has a significant impact on the hot weather rating.  |   | calculated in tool  | One in each category (insulation, glazing and air leakage) that has the biggest impact above a threshold point. shown on certificate  |
| **Hot\_Weather\_Hint\_3** | DE  | Hot weather rating hint. Improvement option that has a significant impact on the hot weather rating.  |   | calculated in tool  | One in each category (insulation, glazing and air leakage) that has the biggest impact above a threshold point. shown on certificate  |
| **Heating\_Hint** | DF  | Heating hint. Improvement option that has the biggest impact on the heater rating.  |   | calculated in tool  | shown on certificate  |
| **Cooling\_Hint** | DG  | Cooling hint. Improvement option that has the biggest impact on the cooler rating.  |   | calculated in tool  | shown on certificate  |
| **Lighting\_Hint** | DH  | Lighting hint. Improvement option that has the biggest impact on the lighting rating.  |   | calculated in tool  | shown on certificate  |
| **Hot\_Water\_1\_Hint** | DI  | Hot water system hint. Improvement option that has a significant impact on the hot water rating.  |   | calculated in tool  | One in each category (hot water system type or shower head) that has the biggest impact above a threshold point. shown on certificate  |
| **Hot\_Water\_2\_Hint** | DJ  | Hot water system hint. Improvement option that has a significant impact on the hot water rating.  |   | calculated in tool  | One in each category (hot water system type or shower head) that has the biggest impact above a threshold point. shown on certificate  |