

Connecting a New or Existing HVAC to an Approved DR Aggregator (Ducted and Non-Ducted); Residential Only	Activity No.
	HC2C

1. ACTIVITY SPECIFIC DEFINITIONS

Reverse cycle air conditioner (ducted or multi-split) means a ducted or multi-split air conditioner with both heating and cooling functions that is registered for energy labelling and MEPS under AS/NZS 3823.2 (2013) or GEMS Air Conditioners up to 65kW Determination 2019 as applicable

Reverse cycle air conditioner (non-ducted) means a single phase non-ducted air conditioner with both heating and cooling functions that is registered for energy labelling and MEPS under AS/NZS 3823.2 (2013) or GEMS Air Conditioners up to 65kW Determination 2019 as applicable

Note that there is currently a transition period between the older AS/NZS 3823.2 (2013) standard and the newer GEMS Air Conditioners up to 65kW Determination 2019. Available product may be registered to either standard until April 2025 after which only product registered to the GEMS determination will be legal to purchase.

Smart control device means an electrical device which meets the minimum levels of functionality to comply with AS/NZS 4755 or is otherwise approved by the Minister or their delegate.

Demand Response (DR) Aggregator means an entity that commercially orchestrates electricity demand response services by aggregating electricity demand using smart control devices fitted to equipment, and exercising contractual rights to control the equipment

Approved DR Aggregator means a **DR Aggregator** approved by the Minister or their delegate.

Class 1 and class 2 dwellings are as defined by the National Construction Code

2. ACTIVITY DESCRIPTION (SUMMARY)

Connect a new or existing air conditioning (ducted and non-ducted) unit to an Approved DR Aggregator.

3. ACTIVITY ELIGIBILITY REQUIREMENTS

- (1) Any residential class 1 and class 2 dwellings in South Australia where the installed product requirements and minimum installation requirements can be met.
- (2) Activity HC2C has must not have previously been implemented for the specific new or existing air conditioning (ducted and non-ducted).

4. INSTALLED PRODUCT REQUIREMENTS

- (1) Any reverse cycle air conditioner (ducted, multi-split or non-ducted) installed shall be fitted with a smart control device.
- (2) The reverse cycle air conditioner must comply with any additional installed product requirements placed, as a condition of approval, on the Approved DR Aggregator

5. MINIMUM INSTALLATION REQUIREMENTS

Any reverse cycle air conditioner (ducted, multi-split or non-ducted) installed must comply with the Minimum requirements of:

- (1) AS/NZS 60335.2.40: 2019 (Household and similar electrical appliances - Safety Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers);

- (2) Additional installation requirements placed, as a condition of approval, on the Approved DR Aggregator, including but not limited to requirements for installation, maintenance, DR orchestration, contractual conditions and consumer protection; and
- (3) AS/NZS 3000 (2018) wiring regulations, with a certificate of compliance by a licenced electrician

6. NORMALISED REPS GIGAJOULES

Separate values are provided for “NCC climate zone 6” and “other places in SA”.

The normalised REPS gigajoules achieved from undertaking this activity is equal to:

Normalised REPS Gigajoules = Productivity Factor (as per table below) x number of eligible appliances x REPS Transition Factor (RTF)

ACTIVITY HC2C – PRODUCTIVITY FACTORS

Activity	Productivity Factor
Connect existing HVAC (non-ducted) to demand response aggregator – NCC climate zone 6	2.58
Connect existing HVAC (ducted) to demand response aggregator – NCC climate zone 6	7.09
Connect existing HVAC (non-ducted) to demand response aggregator – other places in SA	8.17
Connect existing HVAC (ducted) to demand response aggregator – other places in SA	22.43

ACTIVITY HC2C – REPS TRANSITION FACTORS

Year of Installation	REPS Transition Factor
2021	4
2022	4
2023	3
2024	3
2025	2
2026 onwards	1

7. GUIDANCE NOTES (INFORMATIVE ONLY – NOT MANDATORY)

Productivity factors assume HVAC unit will remain connected to an Approved DR Aggregator for 8 years and 50 per cent of maximum load (DRM2) will be shifted between 3pm – 1 AM on at least 15 days per year, including the 5 highest demand days of the year.

In approving an Approved Demand Response Aggregator, the Minister may consider requirements including but not limited to the DR Aggregator’s:

- Customer contract length, terms and conditions;
- Consumer value proposition;

- Demonstrated commercial capacity and capability, intent and practice to dispatch aggregated DR capacity for the duration and frequency required;
- Smart control hardware, software and communications connections and operational capacity and capability for DR orchestration;
- Smart control device product and installation quality and safety provisions; and
- Consumer protection provisions.

The Minister or their appointed delegate may approve demand response aggregators.

All demand response and VPP activities (APP4, EV1, VPP1, HC2C & WH4) are **not** mutually exclusive.

Transition factors have been applied to certain REPS activities to provide a pathway to transition the REPS toward delivery of a preferred mix of activities over the first five-year stage. Application of these factors provides a phased trajectory for retailers that addresses both the challenge of managing the downgrading of deemed gigajoules for lighting activities due to reducing additionality, as well as the pivot toward business models to deliver deeper retrofit activities and demand response activities.