

<b>Connecting a New or Existing Electric Heat Pump Water Heater to an Approved DR Aggregator; Residential Only</b>	<b>Activity No.</b>
	<b>WH4</b>

## 1. ACTIVITY SPECIFIC DEFINITIONS

**Approved Demand Response (DR) Aggregator** means a **DR Aggregator** approved by the Minister or their delegate.

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

**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.

**Water heater** means an Electric Heat Pump Water Heater as defined under AS/NZS 4234 (Heated water systems - Calculation of energy consumption).

## 2. ACTIVITY DESCRIPTION (SUMMARY)

Connect a new or existing Electric Heat Pump Water Heater 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 HW4 has must not have been implemented previously for the specific new or existing water heater.

## 4. INSTALLED PRODUCT REQUIREMENTS

- (1) Any water heater installed shall be fitted with a smart control device.
- (2) The connected Water Heater must comply with any additional installed product requirements placed, as a condition of approval, on the Approved DR Aggregator.

## 5. MINIMUM INSTALLATION REQUIREMENTS

Any electric water heater connected to an Approved DR Aggregator must comply with the minimum requirements of:

- (1) 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,
- (2) AS/NZS 3000 (Wiring Rules), with a certificate of compliance issued by a licensed electrician.

## 6. NORMALISED REPS GIGAJOULES

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 WH4 – PRODUCTIVITY FACTOR

Activity	Productivity Factor
Connect Electric Heat Pump Water Heater to DR Aggregator	2.73

## ACTIVITY WH4 – TRANSITION FACTOR

Year of Installation	Transition Factor (Priority group household)
2026	2

**7. GUIDANCE NOTES (INFORMATIVE ONLY – NOT MANDATORY)**

Productivity factors assume an 8-year contract term and that 100 per cent of maximum load will be shifted between 3pm – 1am on at least the 5 highest demand days of the year. This system would utilise the DRM1 signal.

In determining whether to approve a 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
- 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.

A reference to a standard, code or legislative instrument is a reference to the version of the standard, code or legislative instrument in force at the time the activity is undertaken, including as amended or replaced.