

<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

**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 the 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.

**Water heater** means an Electric Heat Pump Water Heater as defined under AS/NZS 4234:2008 (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 previously been implemented 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) 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
- (2) AS/NZS 3000 (2018) wiring regulations, with a certificate of compliance by a licenced 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	<b>2.73</b>

#### ACTIVITY WH4 – TRANSITION FACTOR

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

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
- 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.