Macquarie Point Multipurpose Stadium
Public Hearing Technical Note

Technical Note Number	12
Subject	Power supply infrastructure
Date	9 July 2025

1. Background

1.1 On 27 June 2025, during Kim Evans' presentation, the Panel queried the possibility of a power supply issue related with servicing the Macquarie Point site (**Site**).

1.2 To assist the Panel, this Technical Note provides information regarding how the Site will be serviced with electricity, including work being undertaken with TasNetworks.

2. Current power supply arrangements

2.1 There is a substation currently on the Site, which predominately supplies TasPorts as well as providing minor supply to the existing Macquarie Point Development Corporation (**Corporation**) buildings and UTAS.

2.2 TasNetworks and TasPorts are using the planned development of the site as an upgrade opportunity. The substation is scheduled to be decommissioned in February 2026.

3. Engagement with TasNetworks

3.1 There are several infrastructure projects being planned or undertaken within or surrounding the Site, including:

(a) Selfs Point Treatment Plant Pumpstation led by TasWater;

(b) Macquarie 02 Substation Upgrade & Macquarie 06 Wharf Upgrade, led by TasPorts; and

(c) District Energy Infrastructure Scheme (**DEIS**) led by the Corporation.

3.2 TasNetworks have appointed a dedicated Project Manager to ensure the connection arrangements for these projects are addressed. To this end, TasNewtorks are working closely with all key stakeholders, including the Corporation. The Corporation has ongoing day-to-day engagement with TasNetworks, including weekly meetings.

4. District Energy Infrastructure Scheme

4.1 The project will be serviced by the DEIS. The DEIS is a central precinct-wide distribution plant and network, from which high voltage reticulation will feed each of the precinct zones via localised substations sized to meet the demand.

4.2 A Connection Capability Report forms the basis for a electrical connection being provided, once a report is agreed. It informs TasNetworks' connection design. There are four separate connection capability reports currently being negotiated with TasNetworks:

(a) CN24-128366 – Evans Street Substation Removal;

(b) CN24-289271 – Southern Construction Supply;

(c) CN24-289271 – Northern Construction Supply; and

(d) CN24-233565 – Stadium / Precinct Connection Application.

4.3 The latter connection arrangement is most relevant to this technical note and is discussed in further detail below.

5. The Stadium / Precinct Connection Application

5.1 This application forms the basis of the proposed incoming electrical supply arrangement required to support proposed developments within the Macquarie Point precinct, including the stadium, commercial, residential and other supporting infrastructure.

5.2 The final arrangement will include an embedded network manager. In December 2021, the Corporation entered into a Memorandum of Understanding with Veolia, following a competitive Request for Proposal process. Together Veolia and the Corporation have recently agreed an updated functional scope with TasNetworks that sets out both the capacity and preferred connection arrangement for the DEIS.

5.3 Table 1 below provides a summary of the proposed load requirements together with anticipated dates for provision of the required loads by TasNetworks to support the full development.

5.4 The specified loads include a 25% spare capacity applied to the total expected load.

Table 1 – Summary of Load Requirements

Stage	***Expected Contracting date (date of connection)***	***Required Site Capacity***
Stage 1: *Stadium* *Central Energy plant – Stage 1* *Sea Water Plant – Stage 1* *Car Park*	*June 2029*	*12.3 MVA*
Stage 2: *Central Energy plant – Stage 2* *Sea Water Plant – Stage 2* *Residential*	*February 2030*	*1.4 MVA*
Stage 3: *Central Energy plant – Stage 3* *Sea Water Plant – Stage 3* *Commercial/Hotel Precinct* *Antarctic Division*	*July 2031*	*1.9 MVA*
Total Precinct Load	*July 2031*	*15.7 MVA*

5.5 TasNetworks is currently reviewing these requirements and will report back shortly providing the final options for their proposed supply arrangements to deliver the DEIS requirements for the Corporation's/Veolia consideration.

6. Connection to existing infrastructure

6.1 TasNetworks has confirmed the following substations have available capacity within the current network to support the DEIS:

a) East Hobart Substation – 5MVA; and

b) North Hobart Substation – 10MVA.

6.2 The Corporation/Veolia are yet to receive the final connections options. However, it is anticipated that a final connection arrangement based on TasNetworks current availability is likely to include a backup dual feeder. This means there would be a reserve feeder exclusively for the stadium, that could be used if there was a primary feeder failure.

6.3 In practice, and as per accepted electrical industry design principles, the diversity of loads means that the demands for power will arise at different times and the extent of the demand from each area will change over time. When the diversity of loads is considered, this arrangement would support the full needs of the Corporation's proposed developments with some spare capacity remaining within TasNetworks standing infrastructure.

7. Future Infrastructure

7.1 The needs of all users in the precinct, including TasWater and TasPorts are met within the arrangement outlined above. This includes the Stadium which is currently being assessed by the Panel. Regarding future unplanned development additional to what is currently planned in the area and greater CBD generally, the Corporation has also been aware of this.

7.2 The Corporation, TasWater and TasPorts are working with TasNetworks to support future strategic planning by supporting the consideration of the installation of a new zone substation within the Macquarie Point area (including Corporation, TasWater and TasPorts land holdings).