

Asset Management Plan Additional Information 31st August 2024

The Electricity Distribution Information Disclosure Determination 2012 now requires all EDB's to provide additional information as per 2.6.1B and 17.2.2 of attachment A of the Electricity Distribution Information Disclosure (Targeted Review 2024) Amendment Determination 2024.

2.6.1B Each EDB is also required to publicly disclose qualitative information in narrative form that describes its practices in a manner that complies with clause 17.2.2 of Attachment A by 31 August 2024 in a standalone document.

17.2.2 monitoring load and injection constraints, including:

- (a) any challenges, and progress, towards collecting or procuring data required to inform the EDB of current and forecast constraints on its low voltage network, including historical consumption data.**

Buller Electricity currently collects power quality data through a single metering equipment provider for approximately 54% of the ICPs on the network. This data includes five-minute instantaneous values of voltage, current and phase angle and is downloaded on a daily basis, there has been no issues with the collection of this data. Half hour consumption data is requested from retailers only for half hour profile ICPs and monthly consumption for individual ICPs on an add hock basis, there has at present, only been minor delays in collecting the data from retailers.

- (b) any analysis and modelling (including any assumptions and limitations) the EDB undertakes, or intends to undertake, with the data described in clause 17.2.2(a).**

The power quality data collected and combined with distribution transformer, feeder and zone substation information and is processed with the Future Grid Compass software platform. This provides alerts and a geographical view of potential Loss of Neutral faults, phase imbalance, voltage excursions and transformer overloads and constraints as well as many other network issues. This data is currently also being combined with other network data and utilised for load flow modelling of individual distribution substation reticulation areas using ETAP network modelling software. This is used to confirm capacity constraints and investigate options for any future load growth or distributed generation connection issues. As we presently only collect power quality data from 54% (2662) of the ICPs in the network, some estimation is completed for the missing data in the network models. Present modelling has aligned well with the metering data and additional field measurements have provided confidence in the current models' accuracy.