



United Energy 2020 DAPR Network Constraint Map Guide

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1. Introduction

1.1 Background

United Energy (UE) has produced a Google Earth KMZ file as part of the Distribution Annual Planning Report (DAPR) which highlights the network constraints faced at the Sub-Transmission, Zone Substation and Distribution feeder levels.

1.2 Required Software

- Google Earth – (<http://www.google.com/earth/download/ge/agree.html>)

2. Map

The Network Constraint Map is comprised of a few layers:

1. UE Boundary (Black border and shaded in black)
2. Council Boundary (Blue border)
3. Augmentation
 - a. Sub-transmission Loop Limitations (shaded purple)
 - b. Zone Substation Loop Limitations (shaded red)
 - c. Distribution Feeder Limitations (red lines)
 - d. Distribution Substation Limitations (circular markers)
4. Replacement
 - a. Transformer Replacement Limitations (shaded yellow)
 - b. Switchgear Replacement Limitations (shaded pale yellow)

Please note if limitations exist in the same area (when both selected at the same time), the colours will overlap leading to the area being shaded a different colour.

Toggling between the selections can be done in the Google Earth sidebar, as shown in the figure below:

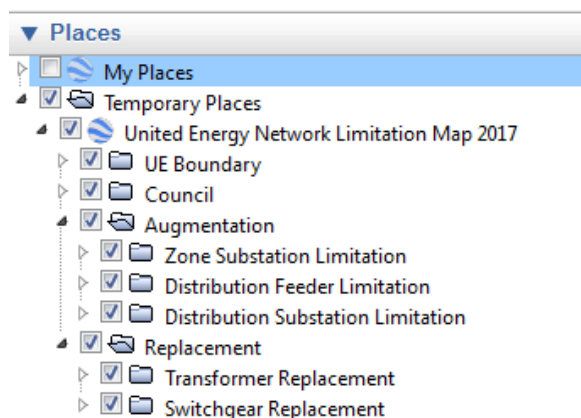


Figure 1: Layer View in Google Earth

2.1 Overview

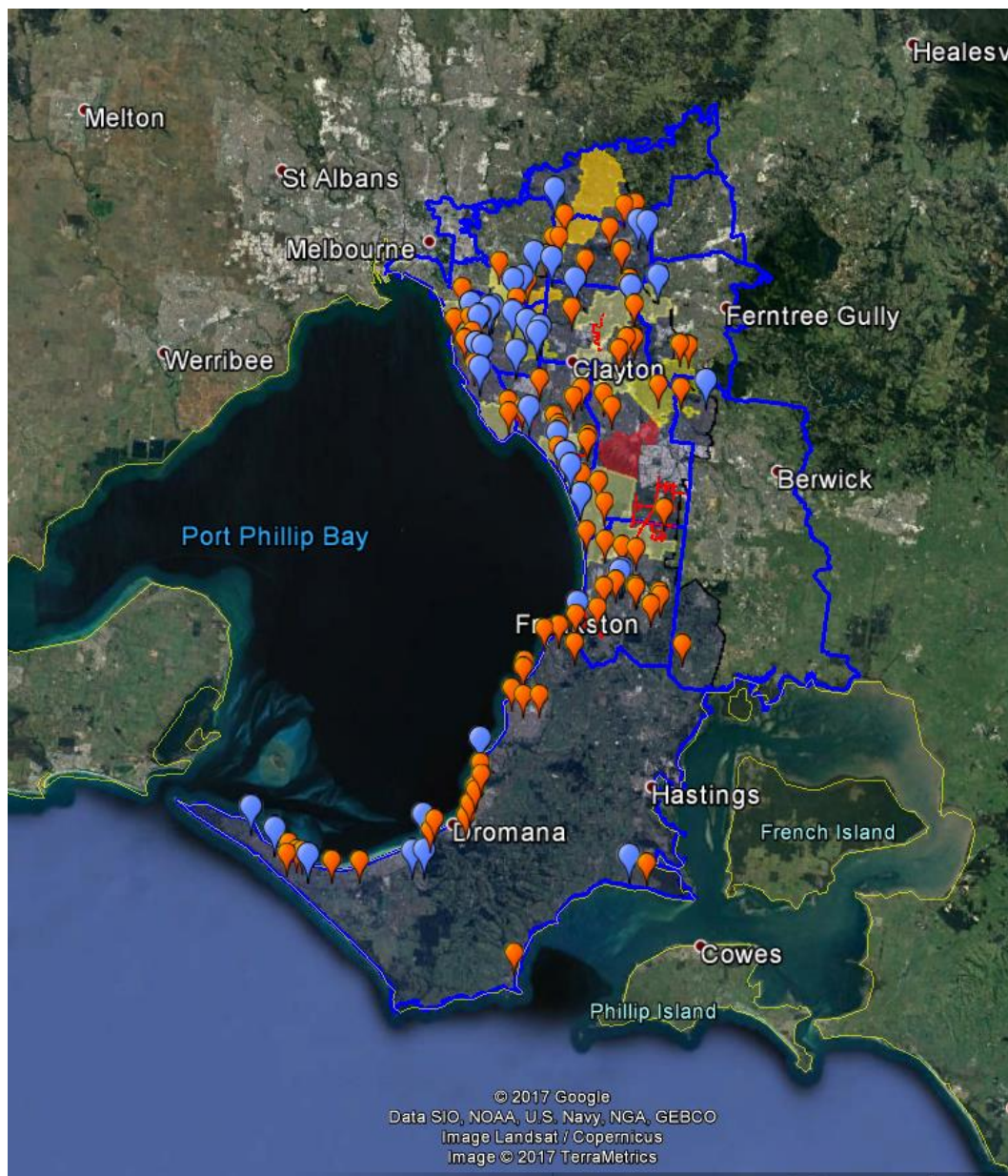


Figure 2: Overview of the Network Constraint Map

2.2 Information regarding specific limitation

To obtain more information on any of the constraints, simply click on the constraint area (distribution substation, distribution feeder, zone-substation, sub-transmission).

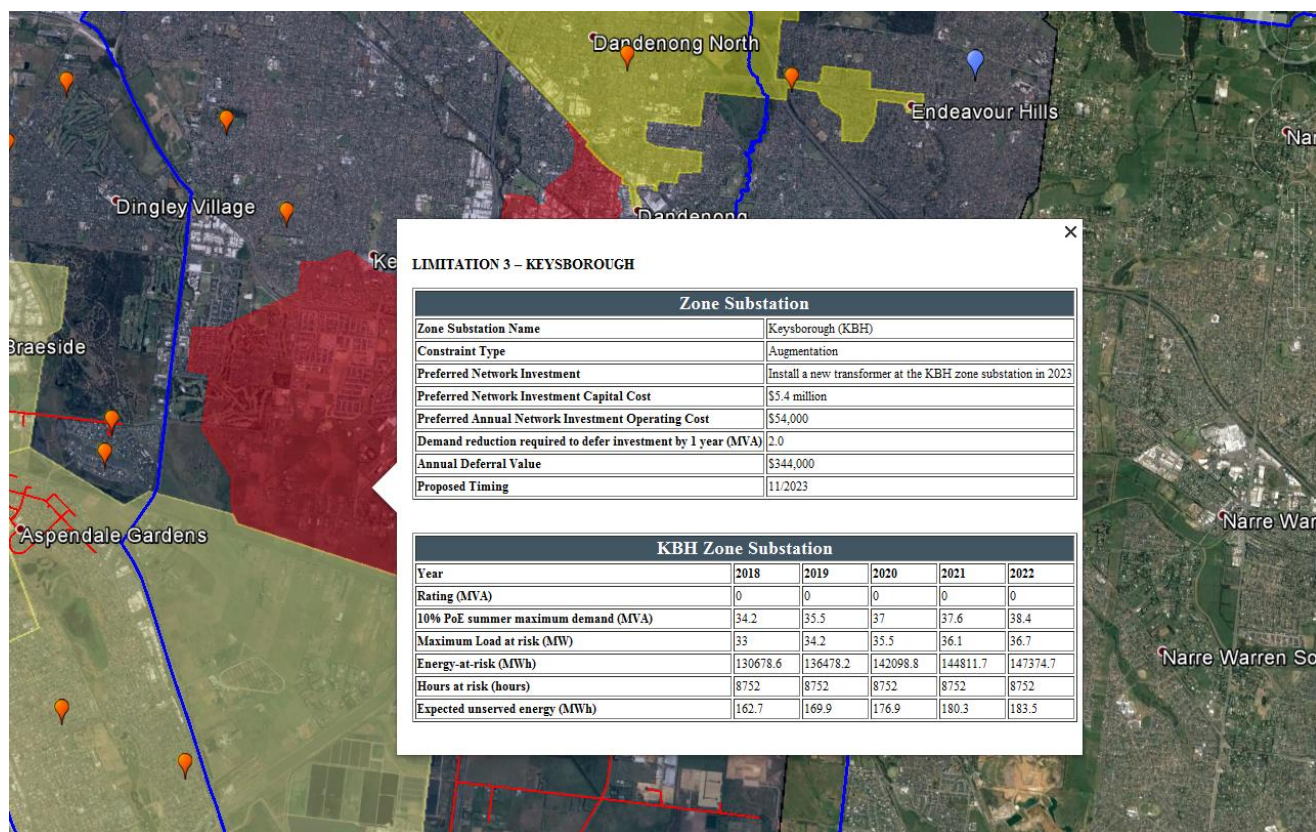


Figure 3: Detailed information regarding constraint

An information box will pop up with some basic details about the constraint area, as shown in Figure 3. For further information, please refer to the full United Energy 2020 DAPR published on the United Energy website.

Please note that to access certain information on certain areas with multiple layers (e.g. Accessing sub-transmission loop limitation on an area overlapped with that of a zone substation), the top most layer should be disabled first.