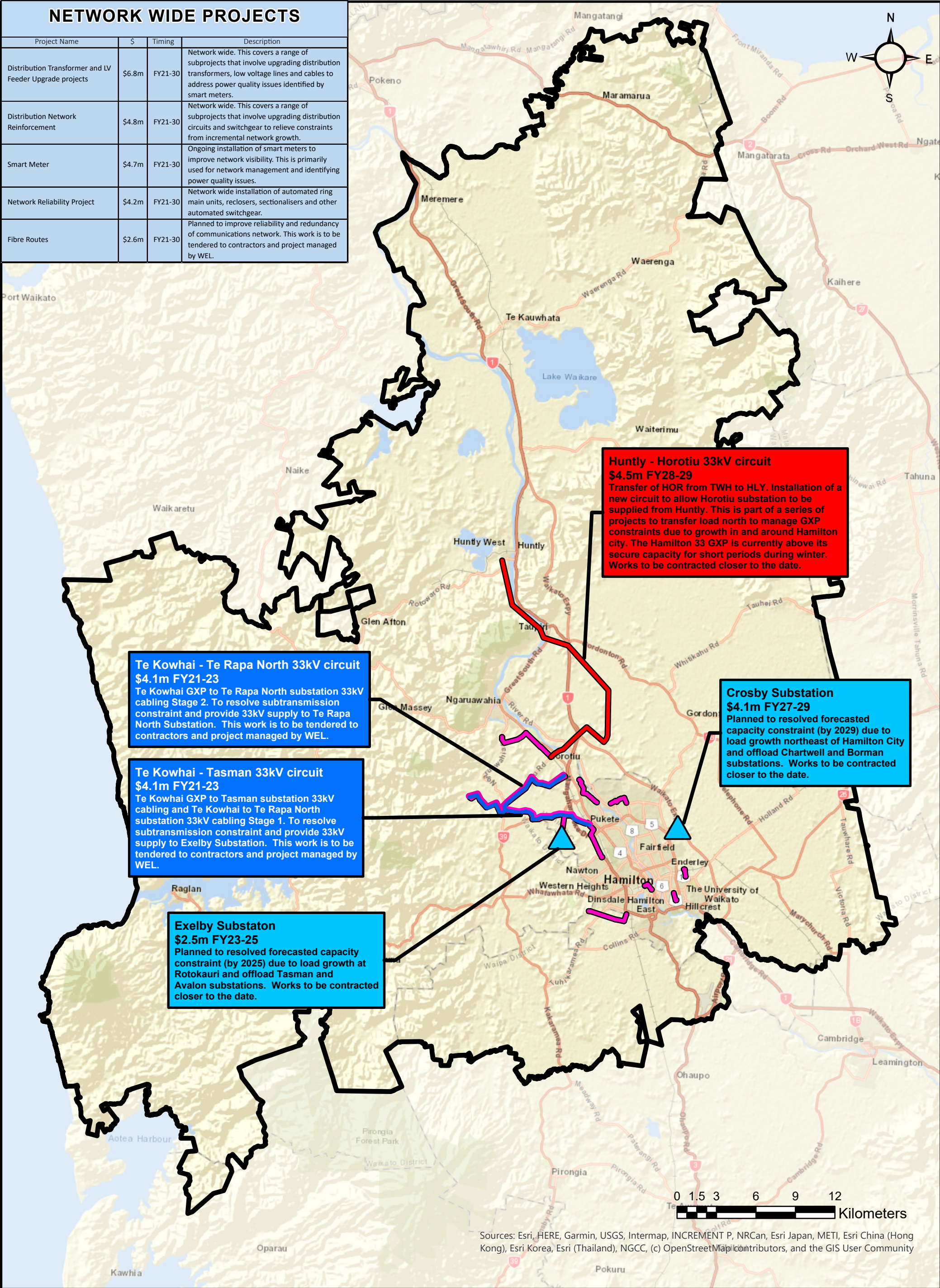


NETWORK WIDE PROJECTS			
Project Name	\$	Timing	Description
Distribution Transformer and LV Feeder Upgrade projects	\$6.8m	FY21-30	Network wide. This covers a range of subprojects that involve upgrading distribution transformers, low voltage lines and cables to address power quality issues identified by smart meters.
Distribution Network Reinforcement	\$4.8m	FY21-30	Network wide. This covers a range of subprojects that involve upgrading distribution circuits and switchgear to relieve constraints from incremental network growth.
Smart Meter	\$4.7m	FY21-30	Ongoing installation of smart meters to improve network visibility. This is primarily used for network management and identifying power quality issues.
Network Reliability Project	\$4.2m	FY21-30	Network wide installation of automated ring main units, reclosers, sectionalisers and other automated switchgear.
Fibre Routes	\$2.6m	FY21-30	Planned to improve reliability and redundancy of communications network. This work is to be tendered to contractors and project managed by WEL.



Te Kowhai - Te Rapa North 33kV circuit
\$4.1m FY21-23
Te Kowhai GXP to Te Rapa North substation 33kV cabling Stage 2. To resolve subtransmission constraint and provide 33kV supply to Te Rapa North Substation. This work is to be tendered to contractors and project managed by WEL.

Te Kowhai - Tasman 33kV circuit
\$4.1m FY21-23
Te Kowhai GXP to Tasman substation 33kV cabling and Te Kowhai to Te Rapa North substation 33kV cabling Stage 1. To resolve subtransmission constraint and provide 33kV supply to Exelby Substation. This work is to be tendered to contractors and project managed by WEL.

Exelby Substaton
\$2.5m FY23-25
Planned to resolved forecasted capacity constraint (by 2025) due to load growth at Rotokauri and offload Tasman and Avalon substations. Works to be contracted closer to the date.

Huntly - Horotiu 33kV circuit
\$4.5m FY28-29
Transfer of HOR from TWH to HLY. Installation of a new circuit to allow Horotiu substation to be supplied from Huntly. This is part of a series of projects to transfer load north to manage GXP constraints due to growth in and around Hamilton city. The Hamilton 33 GXP is currently above its secure capacity for short periods during winter. Works to be contracted closer to the date.

Crosby Substation
\$4.1m FY27-29
Planned to resolved forecasted capacity constraint (by 2029) due to load growth northeast of Hamilton City and offload Chartwell and Borman substations. Works to be contracted closer to the date.

Capex

Created by: JHovens Status: Final

Projection: NZTM Request No: 55923

Date: 29/06/2020 File name: 55923_ArcPro2pt5.aprx

LEGEND

PROPOSED SUBSTATIONS

FIBRE ROUTES

HUNTLY - HOROTIU 33KV CIRCUIT

TE KOWHAI - TASMAN CIRCUIT 33KV CABLING 2020/22

TE KOWHAI - TE RAPA NORTH CIRCUIT 33KV CABLING 2020/22

WEL BOUNDARY

ACKNOWLEDGEMENTS AND DISCLAIMERS

DISCLAIMER

1. This GIS material is made available at the discretion of WEL Networks Ltd (WEL). Maps and data are to be used for indicative purposes only and WEL is not responsible for any inaccuracies. WEL, excluded to the fullest extent possible all liability, for any cost or expenses, direct or indirect (including loss of data and loss of profit) arising from any inaccuracy in, or use of, the GIS material supplied by WEL.

2. It is your responsibility to ensure you are aware of all utility installations in your area of work. You will be liable for all cost and expenses (Direct and indirect, including solicitor-client cost) incurred by WEL if you damage or affect any of WEL's equipment, including cables.

3. For any instructions on how to read this plan please refer to the legend at: www.wel.co.nz/every-day-home-safe/working-on-our-network/service-plans

4. If any damage is incurred, WEL Networks Ltd is to be notified immediately.

5. If 33kV cables are in the area, please contact a cable locator at WEL Networks Ltd on 0800 800 935 then press "2"

6. Standard Trench offsets are: 0.4m and 2.7m from the nearest legal boundary.

7. Warning: The standard duct colour for electrical cables is ORANGE, however, experience has shown electrical cables may be found in ducts of any colour. You must assume all ducts may contain live cables until positively proven otherwise.