

TRAFFIC STATEMENT

To: Adriana.Tapsall@erm.com

From: Dana Geaboc (RPEQ15478)

Date: 27 January 2026

Memo # P004198-R03 (the Locality Plan and Study Area updated)

Re: Gawara Baya Wind Farm Connection Project - Traffic Statement

1. SCOPE OF WORK

Premise has been engaged by Environment Resources Management Pty Ltd (ERM) to review indicative movement volumes for the construction duration of the Gawara Baya Wind Farm Connection Project. This review will provide ERM with the necessary information to support a minor amendment to the Ministerial Infrastructure Designation (MID) for the Genex Kidston Connection Project.

2. BACKGROUND - GENEX KIDSTON CONNECT PROJECT

Powerlink was engaged by Genex Power Limited (Genex) to deliver a 186 km, 275 kV single-circuit transmission line between the Kidston Renewable Energy Hub (Old Kidston Mine) and the existing transmission network at Mount Fox. The Renewable Energy Hub includes pumped storage hydro, solar, and wind generation facilities located approximately 270 km northwest of Townsville. This initiative is referred to as the Genex Kidston Connect Project.

The current MID approval required preparation of Traffic Impact Assessments (TIAs) for state and local agencies prior to commencement of works, including:

- > MID-1021-0548 Traffic Impact Assessment – Charters Towers Regional Council (Langtree Consulting, 31/08/2022)
- > MID-1021-0548 Traffic Impact Assessment – Etheridge Shire Council - (Langtree Consulting, 27/09/2022)
- > MID-1021-0548 Traffic Impact Assessment – Hinchinbrook Shire Council - (Langtree Consulting, 08/09/2022)
- > MID-1021-0548 Traffic Impact Assessment – State Controlled Roads - (Langtree Consulting, 31/08/2022)

2.1 Traffic Volumes

For the construction phase (worst-case scenario for road impacts), the **maximum** daily traffic volumes were:

- > Light Vehicles (LV): 67 vehicles/day
- > Heavy Vehicles (HV): 105 vehicles/day

at Church Road (Greenville Camp Access).

Average daily construction traffic on impacted roads ranged between 4 and 39 vehicles/day.

2.2 TIAs Conclusions

The TIAs assessed the project's impact on the road network using relevant guidelines and standards, including but not limited to Austroads Guide to Road Design, *Department of Transport and Main Roads (TMR) Guide to Traffic Impact Assessment*, *TMR Pavement Impact Assessment Practice Note*, TMR supplements to Austroads

Both construction and operational phases were considered. Due to extremely low traffic volumes during operation and maintenance, **no significant impacts** are anticipated. While construction traffic exceeded 5% of existing Annual Average Daily Traffic (AADT) on some segments, no road links approached capacity. The rural setting and low existing traffic volumes further mitigate potential impacts.

3. GAWARA BAYA WIND FARM CONNECTION PROJECT

The minor amendment to the Genex Kidston Project includes expansion of the Mt Fox substation and construction of transmission infrastructure to connect the adjacent Gawara Baya Wind Farm to the grid.

3.1 Traffic Volumes

For the Gawara Baya Wind Farm Connection Project, Powerlink have estimated that the **maximum** traffic generated during the two components of the construction which is summarised as follows:

- > Transmission line construction
 - Light vehicles (LV) 21veh/day
 - Heavy Vehicles (HV) 54veh/day
- > Substation construction
 - Light vehicles (LV) 8veh/day
 - Heavy Vehicles (HV) 34veh/day

The detailed traffic generation data, as provided by Powerlink is attached in Appendix A.

3.2 Conclusions and recommendations

Estimated traffic volumes for the Gawara Baya Wind Farm Connection Project construction phase (refer to Appendix A) are lower than the traffic volumes used for assessing the traffic impact of the Genex Kidston Connect Project as part of the MID process.

Subsequently, it is considered that the impact of the proposed Gawara Baya Wind Farm Connection Project on the state controlled, and local roads affected by the construction and maintenance of the project are no worse than the impacts of the original Genex Kidston Connection Project. Therefore, the conclusion of the Genex Kidston Connect Project TIAs reports would remain unchanged, and no significant impacts are anticipated for the Gawara Baya Wind Farm Connection Project.



APPENDIX A

**GAWARA BAYA WIND FARM CONNECTION PROJECT– INDICATIVE
VEHICLE MOVEMENT VOLUMES (WITH DURATIONS)**



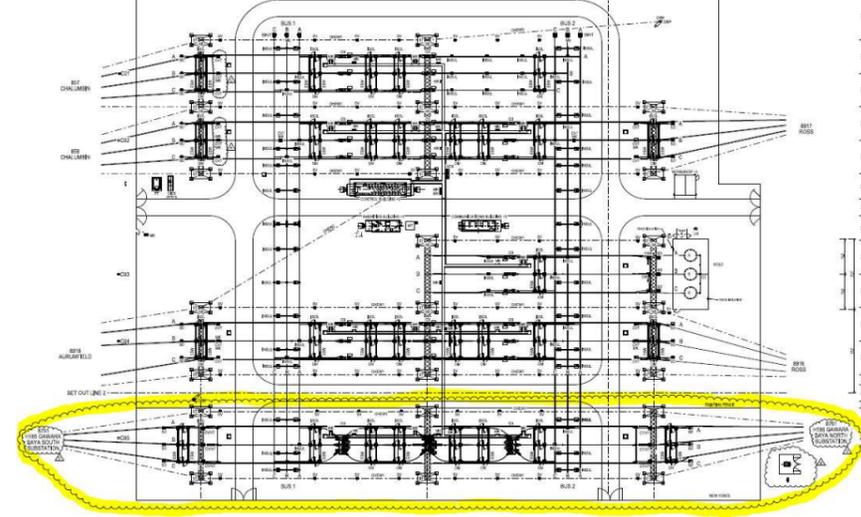
Cawara Bay transmission line - Indicative Vehicle Movement - Base to Site/each way Volume

Duration	Vehicle Type	Discipline	No. Trip	Location	Comment	Sites	Total trips
May 26-June 26							
Indicative T/L Clearing/Access Traffic Volume							
1 x 19/9 day roster	Light Vehicles	Demolition	8	Base to each Pole Site	3 days per pole	6	48
	Lite Truck	Demolition	2	Base to each Pole Site	3 days per pole	6	12
	Water Truck	Demolition	2	Base to each Pole Site	1 trip each way per pole	6	12
	Single Tipper 12m3	Demolition	2	Base to each Pole Site	1 trip each way per pole	6	12
	Excavator	Demolition	2	Base to each Pole Site	1 trip each way	1	2
	Excavator Mulcher	Demolition	3	Base to each Pole Site	1 trip each way	1	3
	Bobcat	Demolition	2	Base to each Pole Site	1 trip each way	1	2
	Grader	Construction	2	Base to each Pole Site	1 trip each way	1	2
	July 26-Oct 26						
Indicative T/L Construction Traffic Volume							
4 x 19/9 day rosters	Light Vehicles	Construction	76	To & from site	Incl. Winch Ute	4	304
	lite Truck	Construction	4	To & from site	2 trip each way	5	20
	SR 30 Soilmec or Smillar	Construction	2	To & from site	1 trip each way	1	2
	Bobcat	Construction	2	To & from site	1 trip each way	1	2
	Telehandler	Construction	2	To & from site	1 trip each way	1	2
	Concrete Agitator	Construction	3	To & from site	3 trip/pole each way	5	45
	50T Crane	Construction	8	To & from site per roster	2 trip each way	1	8
	130T Crane	Construction	2	To & from site per roster	1 trip each way	1	2
	Truck mounted EWP	Construction	4	To & from site per roster	2 trip each way	5	20
	4x4 Hino Winch Truck	Construction	4	To & from site per roster	1 trip each way	2	8
	Franna	Construction	4	Each Brake/Winch Site	2 trip each way	2	8
	8x8 Truck	Construction	4	Each Brake/Winch Site	Only for Block Anchor sites.	2	8
	8x8 Truck	Construction	2	Each Brake/Winch Site	Tower Anchor Sites.	2	4
	Light Vehicles	Construction	8	Each Brake/Winch Site		2	16
	April 26-Oct 26						
Indicative T/L Establishment Construction Traffic Volume							
	Semi low loader	Pole Steel Delivery	1	Townsville Port to Site	3 twr / 1pole/truck	5	5
	Semi low loader	Conductor OPGW EW	1	Townsville Port to Site	6 drums / truck	2	2
	Semi low loader	Line materials	1	Brisbane to Site	1 container / truck	2	2
	Semi low loader	Contractor plant	10	Brisbane to Site	Cranes, EWP, 8*8 trucks, tip trucks, telehandlers, excavator, bobcats etc	10	100



Cawara Bay Substation - Indicative Vehicle Movement Base to Site/each way Volume

Duration	Vehicle Type	Discipline	No. Trip	Location	Comment	Sites	Total trips
May 26-Dec 26							
Indicative Substation Construction Traffic Volume							
16 x 9/5 roster	Light Vehicles	Construction	8	Per day/Diameter	4 vehicles per day	144	1152
	8T Truck	Construction	4	Per Diameter	2 trip each way/roster	16	64
	Concrete Agitator	Construction	60	Per Diameter	4 per day x 15 days	1	60
	130T Crane	Construction	2	Per Diameter	1 per diameter	1	2
	Telehandler transport	Construction	2	Per Diameter	1 per diameter	1	2
	Franna	Construction	16	Per Diameter	1 trip each way/roster	1	16
	EWP transport	Construction	2	Per Diameter	1 per bay	3	6
Feb 27-Sept 27							
Indicative Test & Commissioning Construction Traffic Volume							
12 x 9/5 part rosters	Light Vehicles	Test & Comm	8	Per Diameter	4 vehicles per day	63	504
	EWP	Test & Comm	2	Per Diameter	2 per diameter	2	4
	Telehandler	Test & Comm	2	Per Diameter	1 per diameter	1	2
April 26-July 26							
Indicative Site Establishment Construction Traffic Volume							
	Semi low loader	Site establishment	2	Brisbane to Site	Office/Crib/Ammenities	3	6
	Semi low loader	HV Plant	10	Brisbane to Site	CB, Isolators, VT, Metreing Units, etc.	1	10
	Semi low loader	Support steel/Strain Beams	2	Brisbane to Site		3	6
	Semi low loader	Contractor plant	10	Townsville to Site	Cranes, EWP, 8*8 trucks, tip trucks, telehandlers, excavator, bobcats etc	1	10



F2-1 Locality Plan and Study Area Context
 Gawara Bay Wind Farm Connection Project
 MID Proposal Report
 Client: Powerlink Queensland
 ERM