

NCESS Expression of Interest Q&A :

WS5323348107 Network Support Services for Byford Peak Demand Services

Question 1:

Will all necessary approvals be required to be issued by the date of submission or can there be a clear pathway to necessary approvals and the approvals will be a CP to the NCESS agreement? e.g. environmental and connection approvals. ESM Rule 3.11B.10(b) suggests approvals must be in place, but this NCESS service period starts in over a year which is sufficient time to obtain any necessary approvals. (also this NCESS process has been labelled an EOI – so not sure if it is an NCESS request or just an EOI). Is it possible to submit an “alternative” proposal that has the approvals as a CP?

Answer 1:

Confirming this is an EOI and will be followed by a formal Request for Tender after an assessment of the EOI responses.

In terms of relevant approvals, (connections, land access, environmental etc..) these will need to be in place prior to the contract start date and form part of the Conditions Precedent. Western Power welcomes all proposals aligned to the draft service specification shared under the EOI.

Question 2:

Can you please provide a list of distribution feeders that are deemed "electrically connected" to the Byford substation?

Answer 2:

All distribution feeders connected to Byford substation are eligible under this event.

A list of the feeders is as follows:

BYF 503.0 ALEXANDER RMU

BYF 510.0 HIGHWAY NORTH

BYF 505.0 L19 SOUTHWEST HWY

BYF 504.0 L54 SOUTHWEST HWY

BYF 508.0 843 SOUTHWEST HWY

BYF 515.0 ALEX. FDR. RMU A/L19 SWH

BYF 523.0 L4085 SUNRAYS ST

BYF 524.0 L8004 ALEXANDER RD

BYF 527.0 L201 BUTCHER RD

Question 3:

What is the capacity or utilisation level at each feeder mentioned in answer 2?

We're aiming to identify the most logical placement for the capacity we plan to install, as well as assess the availability of high-voltage (HV) injection points.

Answer 3:

WP is seeking service to alleviate BYF Zone substation transmission constraint. Any service provided on any of the BYF feeder would be benefit. However, the Table 1 shows the priority of feeders where both the Distribution network and Zone substation would the greatest benefit. Please find below forecast feeder utilisations for summer FY28/29 prior implementation of committed WP projects.

Table 1: Feeder utilisation FY28/29 prior to committed projects

Feeder	Existing Hi Alarm (A)	Projected Peak (2028/29) – existing network	
		Forecast Peak (A)	Forecast Utilisation w.r.t. Hi Alarm (%)
BYF 503F	343	229	67%
BYF 503R	343	182	53%
BYF 504 *	385	321	83%
BYF 505 *	385	317	82%
BYF 508 *	315	143	45%
BYF 510	324	220	68%
BYF 515R	322	167	52%
BYF 515F	322	300	93%
BYF 523 *	323	365	113%
BYF 524 *	324	292	90%
BYF 527	324	267	82%

*Southbound BYF feeders are highlighted in yellow colour to indicate areas of priority where Western Power believes services provided at these locations will have longer term benefits.

In the event of a contingency such as the failure or planned outage of one transformer the remaining transformers are expected to be overloaded which will significantly increase the risk of outages. Given the increase in risk of transformer overloads and the inability to off-load distribution feeders during contingency events, the implementation of NCESS presents

a valuable interim and long-term solution. Therefore, it would be beneficial for Western Power to explore available NCESS options in the market to support the BYF load area. Western Power is open to considering any service quantity that you may have in the target area, including quantity less than the amount detailed in the draft Service Specification document (table 2: NSS Service requirements).

Question 4:

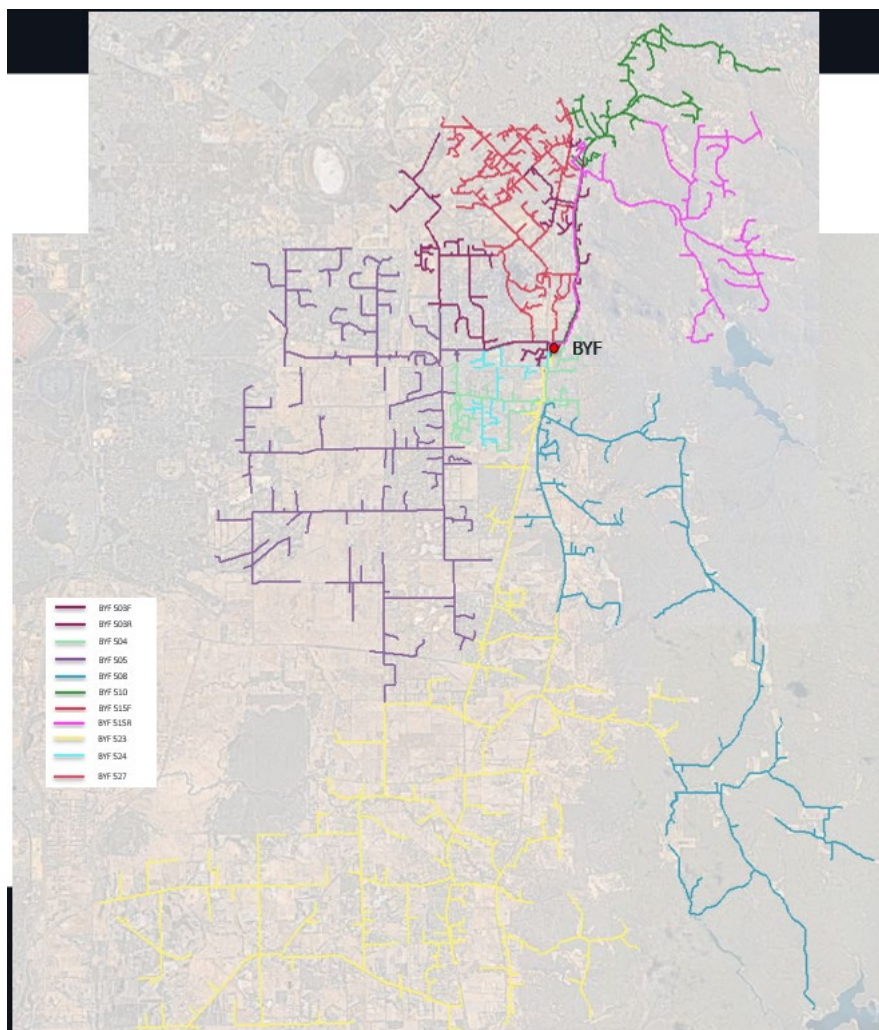
Could we please get the map locations referenced in answer 2?

We need these to assess land availability for potential installations and to evaluate the utilisation of each feeder.

Answer 4:

BYF Catchment for existing network:

At this point of time, the map looks like this, noting that it subject to change.



Question 5:

Is there a high-voltage (HV) injection point at each of the feeders listed in answer 2?

We need this information to determine the appropriate connection type for each location.

Answer 5:

WP is currently seeking Expressions of Interest (EOI) for NCESS. Further details and guidance can be discussed during the NCESS Call for Submission (Tender) phase to better understand the capabilities available in the market for the HV injection point on the listed feeders at this stage.