The Clutch Network Connection Report Card





The Clutch Network Connection **Report Card**

Through its involvement in connecting over 40 projects to the grid, Clutch has learnt that many developers delay the focus on the network connection as they focus on other important key project streams like land & DA, community engagement, offtake, and generator supplier agreements. During this time the risks associated with the connection often change or worse, increase, resulting in large network risks being realised once significant cost and effort has been invested. This often means large and unnecessary costs being incurred for little benefit.

To support clients to address this issue, Clutch Strategic has developed the Network Connection Report Card designed to provide an early, low-cost and prompt desktop assessment of the key network connection risks for your pipeline of projects. This enables projects within a pipeline to be ranked based on the associated network connection risks.

Clutch Strategic's Network Connection Report Card is a low-cost and quick desktop assessment of the status of a potential connection to identify risks and opportunities before committing to any unnecessary high costs for a project.

The Approach

Clutch undertakes the following process over approximately two weeks to deliver the Network Connection Report Card:



What it looks like

The Clutch Network Connection Report Card is presented in a 10 to 15 page presentation that provides the outcomes of the desktop scan which includes:

- A review of location and network topography.
- A summary of potential connection options.
- The status of the key network connection (technical) indicators.
- A scan of the local network planning landscape (what is the network planning that could impact the project).
- A competitive project scan of other projects which could impact the success of your project.
- A scan of the regulatory environment. The rules or legislative changes that could impact the project business case.
- Any key network connection knowledge gaps which need to be run to ground to increase the success of the project.

Key Benefits

The key benefits of the Clutch Network Connection Report Card comprise:

- A low cost and prompt assessment.
- An upfront and increased awareness of the network connection-related risks, opportunities, and knowledge gaps for a project pipeline ahead of committing to the high costs for land & DA, expensive dynamic studies, and the NER connection process.
- Leverage Clutch Strategic's multiple successful projects and decades of knowledge as well as current immediate experience to identify network risks, opportunities, and next steps which may not be evident to others.
- Identify recommendations and next steps for your project to prioritise the definition and resolution of knowledge gaps in subsequent phases.
- Prompt action and streamlined scan tailored to the specifics of the projects within your development pipeline.



Deliverables

Clutch applies a methodology of investigation and analysis to assess six key metrics for each project, as outlined below.

Each of the metrics carries a score enabling a quick reference to the overall score of each project.



Clutch's streamlined Network Connection Report Card measures the status of a potential connection, identifying risks and opportunities before committing to any unnecessary high costs for a project. An example of the content is shown below:

Connection Overview



Competition Project Scan

Project X is proposed to cut-in to a stratisticition one there is no direct competition for network access, nowever, there is positive impetition for network capacity in the broader region. Some key projects identified that could impact Project X are summarised						
zw.		-		(a).00		
202016	Name	Type/size	Connection Parts			
Connection Repairy	Brathe Power Station	ROMA Dasse	Rumpuer (connection to Sed Qu'a)	Current and future mining/inductoral transfer to Upper		-
	Ipan BISS	50MM/30MM/ (per DA)	Landson Substitution	Eigenflutiert seiter Capacity Instatled al Melood States	<u></u>	
(militar)	Corpork BISS (Datar Investment Phy Ltd)	YOOPPIN BASS	Tempor Substation	Application.	-9% 6	
Connection Application	Suscept Power Station	-450Mill BESS	TRD	5 7	10	
Connection Enquiry	Laboriscan DCCT	Stage 5 250MB Stage 2 150MB	Cole in the Weinplace State	Y	-	NY S
Connection Employ	Eaque tipa Solar Fann	450908 (aggregate, utilinate)	Various, distribution.		- F O R	a Canada
Operational	Lilfphan WF	200MW	Rabertolown substitutes			
Connection Depthy	Galle BESS	200MW	Summer Substitution	Signal gang	Prant making	1
Punding	Smithtan BISS	150MW(20vi)	18D		and the second sec	1.27

For more information +61 437 113 034

Indicators



Regulatory Changes

Jutch has scanned the 28 open/pending ABNC rule changes, as well as on-going COAG/USB workstreams and Identified the following changes as particularly relevant to Project X.						
Reference	Title	Timing	Potential Impact			
ABAC Rule Change BRC0277	Primary frequency response requirement	Completed 4/6/20	Asset compliance. Risk of delay during R1/registration.			
ABAC Rule Chargo EBC0294	Connection to dedicated connection assets	Final determination expected B/7/21.	Changes to registration/GPS/metering requirements, particularly considering Bridle Track.			
ADIC Itale Change ERC0380	Integrating Energy Storage systems into the NEM	Draft determination expected 29/7/21.	Changes to registration and metering requirements, particularly considering Bridle Track.			
ADIC Rule Change ERC0296	Fast frequency response market ancillary service	Final determination expected 15/7/21.	(Opportunity) Changes to proposed use-case.			
ADIC Itale Change IRCC245	Primary frequency response incentive arrangements	Draft determination expected 16/9/21.	(Opportunity) Changes to proposed use-case.			
ADIC Itale Change ERC0300	Efficient Management of System Strength on the Power System	Draft determination delivered 29/4/21. Final determination expected 22/7/21.	(Opportunity) Changes to proposed use-case.			
NA	ESB/COAG: Post 2025 Market Design	Market design options paper released 30/4/21.	Changes to market design and commercial drivers. Likely to be increased opportunity.			

Planning Overview



Report Card Summary



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