

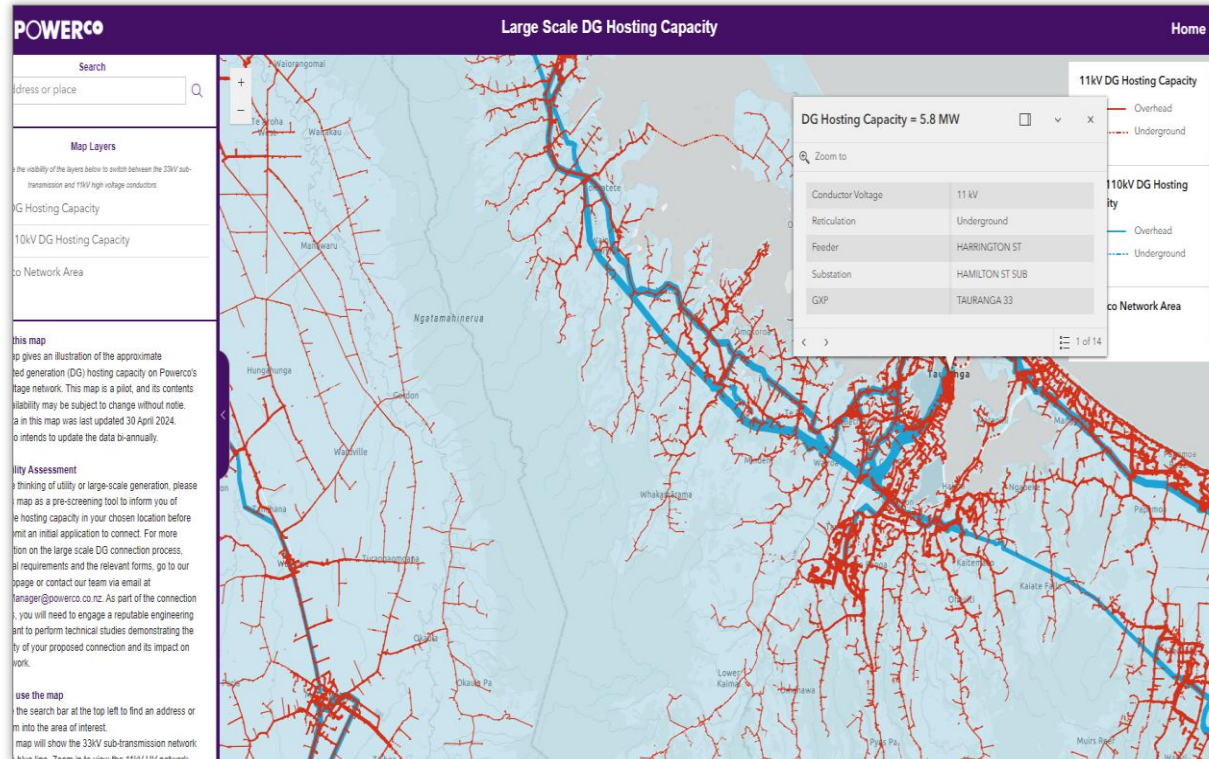
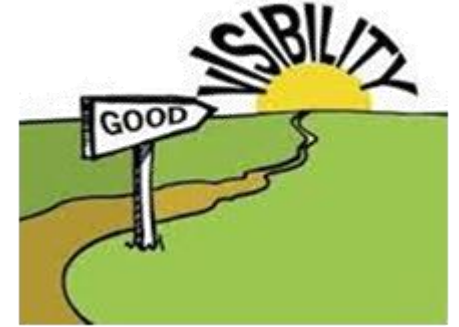
Network Visibility Forecast



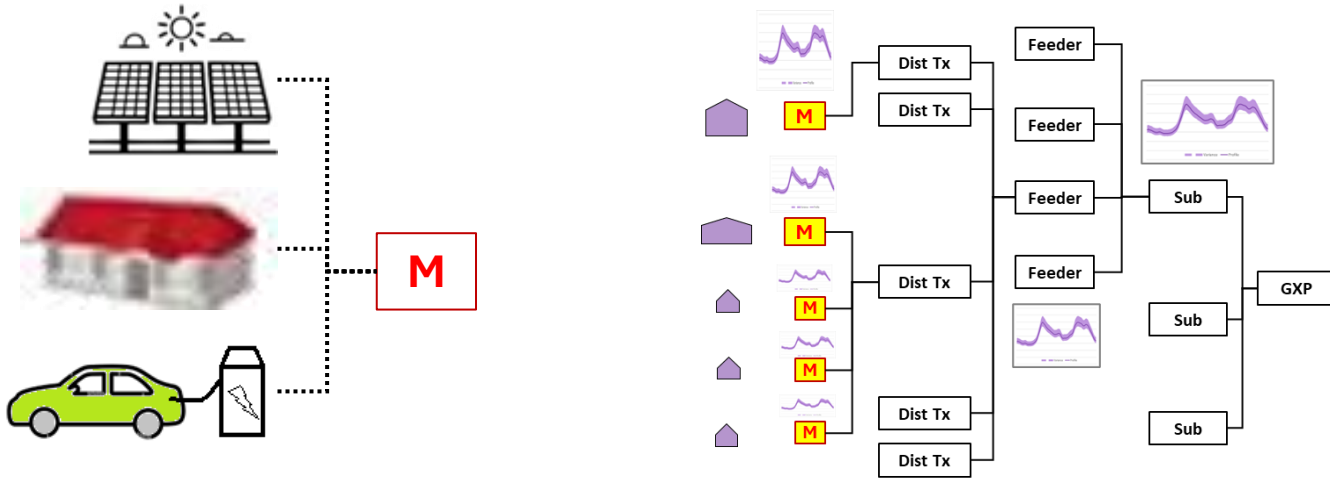
Some storms ahead ...

but

... the outlook is generally sunny



Network Visibility – “Two way flow”



Network needs visibility of :

- Customer demand
- Service levels

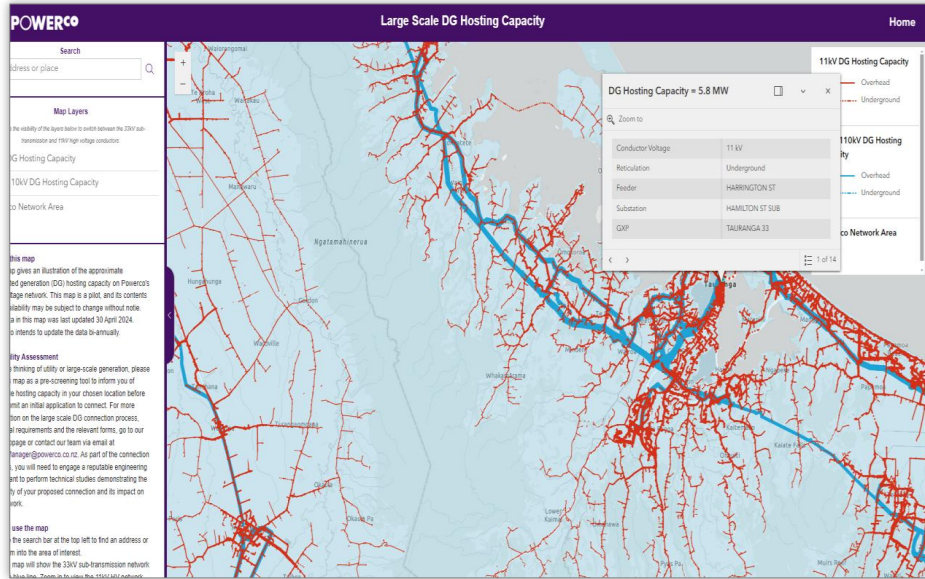


POWERCO Large Scale DG Hosting Capacity

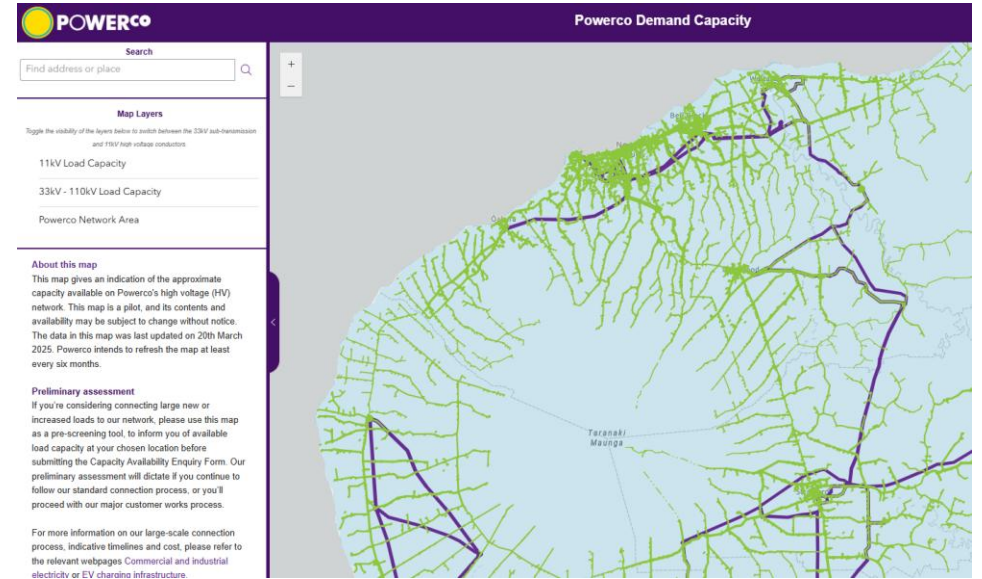
To give customers visibility of:

- Capacity (access seekers)
- Congestion (flexibility / CER)

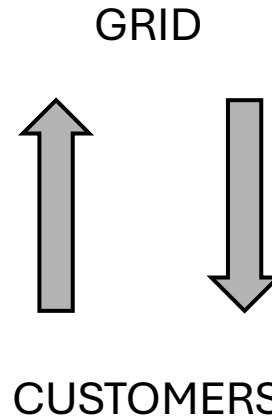
Network Visibility “for customers” – Current Progress



DG (export) Capacity (MV)



Load (import) Capacity (MV)



... and don't forget the modelling (ENGINE) that drives the map →



... a good start, ...

but,

... now time to push on for the big value return.

Network Visibility – Challenges / Opportunities (Roadmap)

DIGITAL

Your are entering the digital age!

Expectation

Customer Experience
Digital Services



DATA

Opportunity

Analytic & big data platforms

Automation:

- Error capture
- Validation
- Integration

Data Quality

DECENTRALISATION

Granularity (in time and space)

V1.0: Proto type → 100 MB
V1.3: next version ... → 1 PB



???



DISSEMINATION

Information Overload

Non-tech

Tech savvy



Year	Base	HU	Lo	Lo	Lo
2026	958 MW	987 MW	951 MW		
2026	912 MW	998 MW	994 MW		
2027	960 MW	1028 MW	978 MW		
2028	1020 MW	1054 MW	1066 MW		
2029	1060 MW	1132 MW	1037 MW		951 MW
2030	1083 MW	1180 MW	1040 MW		964 MW
2031	1114 MW	1224 MW	1064 MW		978 MW
2032	1147 MW	1288 MW	1084 MW		996 MW
2033	1179 MW	1312 MW	1101 MW		1017 MW
2034	1210 MW	1350 MW	1116 MW		1040 MW
2035	1241 MW	1407 MW	1127 MW		1064 MW
2036	1281 MW	1467 MW	1139 MW		1091 MW
2037	1321 MW	1530 MW	1152 MW		1119 MW
2038	1361 MW	1607 MW	1167 MW		1149 MW
2039	1401 MW	1690 MW	1183 MW		1181 MW
2040	1441 MW	1778 MW	1201 MW		1215 MW

DATA PORTAL



DISCLOSURES



Voluntary

Regulated

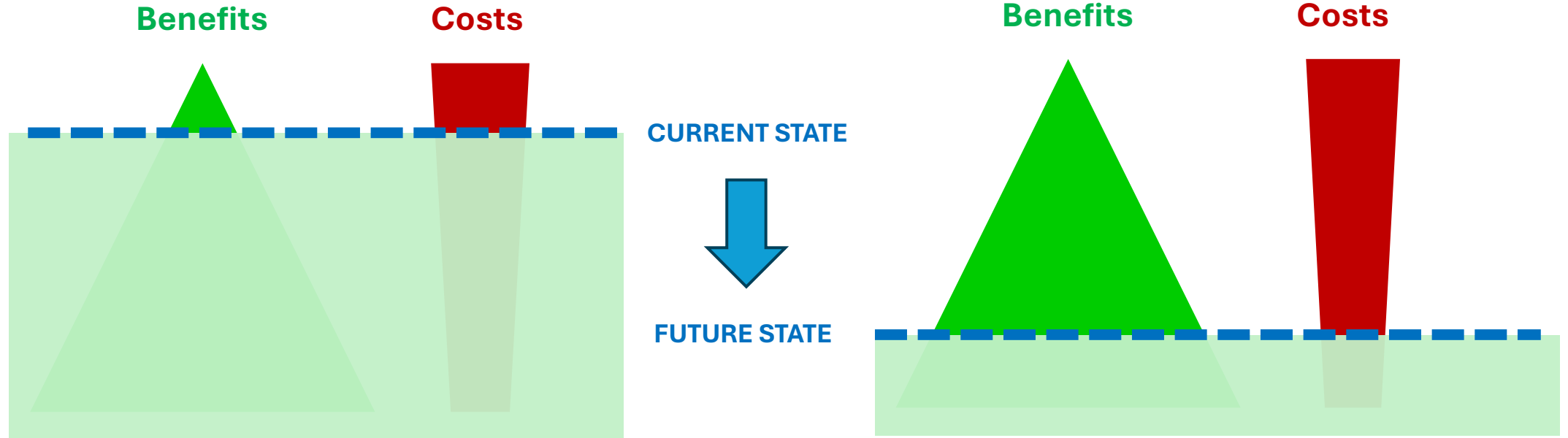
CAUTION
Dark Ages ahead

TRANSPARENCY

Proceed to the
DIGITAL AGE



Benefits of Network Visibility



V1.0 benefit is only the **tip of the ice berg**.

Costs were significant but not unreasonable and serve multiple other purposes.

As information is scaled up in quantity, form and value to customers:-

- benefits improve exponentially;
- but largest costs are already surfaced

Benefits of Network Visibility

Customers:-

- Provide digital age **customer services** as we **support NZ decarbonisation & growth as excellent infrastructure providers**
- **Streamline connection process** and eliminate barriers for access seekers (“zero queue policy”?)
- Give stakeholders greater **investment confidence** through forecasts of the above
- Provide **transparency** in regard to network capability (for access seekers) and opportunity (for DER/CER)

Stakeholders:-

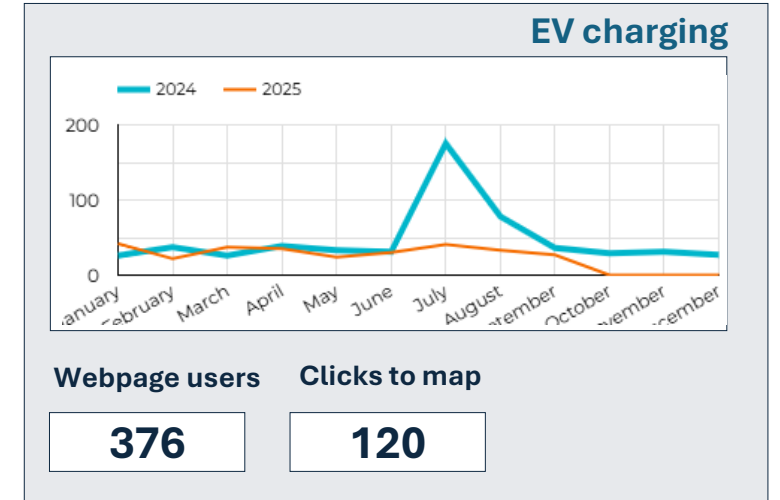
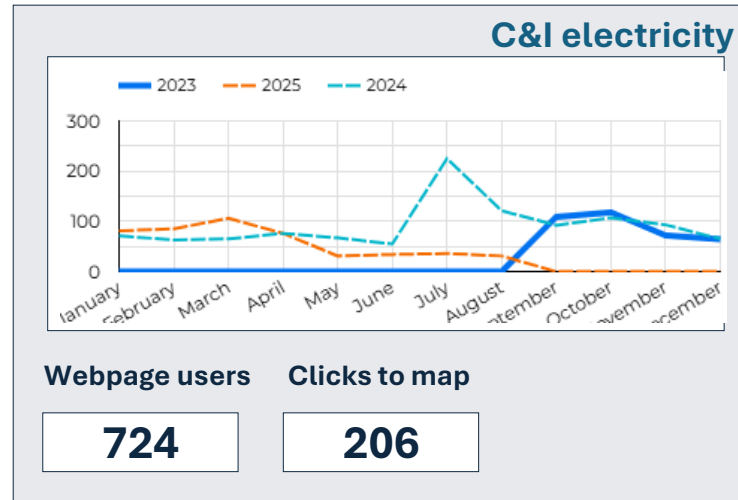
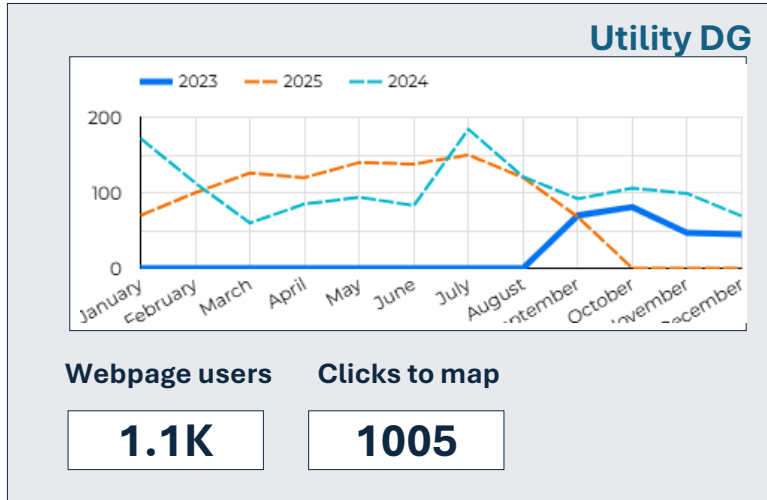
- Supports **open access, neutrality, even-handedness** and **efficient investment**
- Aligns with **regulatory expectations** for proactive congestion management, customer information etc

Powerco:-

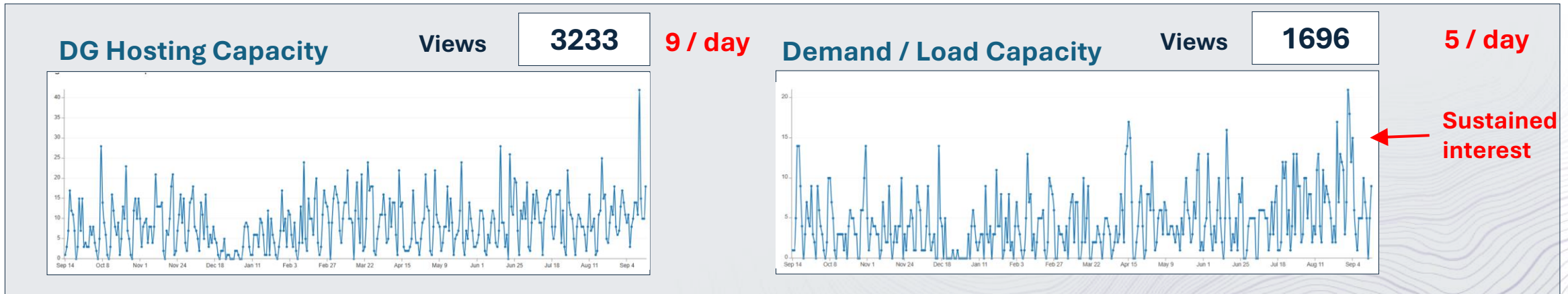
- Supports **value-based investment planning** and **optimisation**
- **Alignment and consistency** across investment, pricing (including connection) & operations
- Facilitates process automation and improved **operational efficiency**

Stakeholder Feedback – Capacity Maps

Webpage user stats or 12 months to September 2025



Map views 12 months to September 2025



Stakeholder Feedback – Capacity Maps

Customers say

- A good way to identify the capacity and type of connection available within the Powerco catchment.
- The map, in conjunction with the Location and Side bar chart, helps to:
 - Confirm if an application in a location is worthwhile
 - A way to inform additional feasibility studies, before they commit to an application.
- Looks professional - good first impressions of Powerco's service.

Account Managers say

- Often, customers share a screenshot of the map/potential capacity available at their chosen location.
 - Helps me to get an initial understanding/focus on their specific requirements.
 - A really good way to start a conversation, related to the customer's needs and lead into further details about Powerco's Utility Scale SDG application process.
- Customer's consultant used the maps as a starting point for capacity that might be available on the network as part of their decarb plans.

Version 1.0 (a “proof of concept”) is achieving it's intent → “... **to explore possibilities and initiate discussions.**”