

#	Data Type	Public or Protected for Security? <small>Certification by DOC as "need to know" as suggested in MnSEIA's Comments.</small>	Designation Rationale (Include citations when possible)	How does public availability of this data serve public interest?
A				
Public display (e.g. maps, pop up windows, etc.)				
1	Distribution grid map with critical energy infrastructure	Certification Required	Maps of containing critical energy infrastructure should be restricted from the general public.	The public availability of this data does not serve public interest. This data should be made available to certified parties, but could pose a security risk if publicly available.
2	Distribution grid map with critical infrastructure	Certification Required	Maps of containing critical energy infrastructure should be restricted from the general public.	The public availability of this data does not serve public interest. This data should be made available to certified parties, but could pose a security risk if publicly available.
3	Distribution grid map at feeder level	Public	This data is useful to developers and poses very little security risk.	This data poses no additional security threats or risk to the public.
4	Distribution grid map at secondary level	Public	This data is useful to developers and poses very little security risk.	This data poses no additional security threats or risk to the public.
5	Distribution grid map at customer meter level	Certification Required	This data should be restricted. Customer data is needed for developers to install distributed energy resources (DER), but should only be made available upon certification of <i>bona fide</i> status.	The public availability of this data does not serve public interest. This data should be made available to certified parties, but could pose a security or privacy risk if publicly available.
6	Aggregated Data by Substation (see Sec. B)[1]	Public	This data is useful to developers and poses very little security risk.	This data poses no additional security threats or risk to the public.
7	Aggregated Data by Feeder (see Sec. C)	Public	This data is useful to developers and poses very little security risk.	This data poses no additional security threats or risk to the public.
8	Aggregated Data by Node/Subsection of Feeder (see Sec. D)	Public	This data is useful to developers and poses very little security risk.	This data poses no additional security threats or risk to the public.
9	Aggregated Data by Secondary (See Sec. E)	Certification Required	This data should be public, except where information of critical infrastructure or confidential/customer data may be at risk. Certification of <i>bona fide</i> developer status will clear up any potential security risks.	Access to this data will help further the development and interconnection of DER. However, some areas of this data may contain sensitive data, for example, if the particular feeder serves only one customer or a small group of customers. As such, the majority of data should be accessible to the general public, with certification being required to access the rest.
B				
Access to Aggregated Data by Substation				
1	Forecasted Annual Peak Load	Public	This data is useful to developers and poses very little security risk. It is not currently available to developers, even by request.	Access to aggregated data by substation provides necessary and useful data for the further development and interconnection of distributed energy resources (DER). Without access, or a clear pathway to obtain access to this data, interconnection efforts can be substantially delayed, and so undermine the Legislature's and PUC's goals of DER deployment.
2	Actual Annual Peak Load	Public	This data is useful to developers and poses very little security risk. It is not currently available to developers, even by request.	Access to aggregated data by substation provides necessary and useful data for the further development and interconnection of distributed energy resources (DER). Without access, or a clear pathway to obtain access to this data, interconnection efforts can be substantially delayed, and so undermine the Legislature's and PUC's goals of DER deployment.

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3	Actual Daytime Minimum Load	Public	This data is already public , is useful to developers when accurate, and poses very little security risk.	Actual Daytime Minimum Load is necessary for developers to interconnection, and is extremely important for developers to have to ensure timely and efficient development and interconnection of DER. Without access to the most accurate and recently available data, developers efforts can be diminished and the State will be further away from reaching its energy goals. Further, given that this metric is a key benchmark for Xcel's determination of capacity, interconnection efficiency is best facilitated with public knowledge of capacity.
4	Load shapes (seasonal)	Public	This data is useful to developers and poses very little security risk.	Substation Load data is extremely important for developers to have to ensure timely and efficient development and interconnection of DER. Seasonal Load data is important for long term project viability. Without access to the most accurate and recently available data, developers efforts are diminished, and the State will be further away from reaching its energy goals.
5	Load shapes (hourly)	Public	This data is useful to developers and poses very little security risk.	Substation Load data is extremely important for developers to have to ensure timely and efficient development and interconnection of DER. Hourly Load data is important for developers to ensure that potential DER projects can interconnect and run without creating issues for the substation. Without access to the most accurate and recently available data, developers efforts can be diminished and the State will be further away from reaching its energy goals.
6	Hosting Capacity Results (min. and max)	Public	This data is useful to developers and poses very little security risk.	Access to aggregated data by substation provides necessary and useful data for the further development and interconnection of distributed energy resources (DER). Without access, or a clear pathway to obtain access to this data, interconnection efforts can be substantially delayed which will ultimately result in the Legislature's and PUC's goals for DER not being met.
7	Hosting Capacity Criteria Violations	Public	This data is useful to developers and poses very little security risk.	Access to aggregated data by substation provides necessary and useful data for the further development and interconnection of distributed energy resources (DER). Without access, or a clear pathway to obtain access to this data, interconnection efforts can be substantially delayed which will ultimately result in the Legislature's and PUC's goals for DER not being met.
	Distributed Generation and Storage (kW), in operation	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Developers need to be able to see the distributed generation and storage on a particular substation in order to ensure that any DER will be able to interconnect efficiently, without putting to many constraints on a substation.
	Distributed Generation and Storage (kW), in queue	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Developers should be able to see the queue to ensure that their projects are interconnect in a timely fashion, and to plan future projects around any queue constraints or bottlenecks.
	Demand Response or other demand-side DER (kW) (EV chargers, EE, etc.)	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Access to aggregated data by substation provides necessary and useful data for the further development and interconnection of distributed energy resources (DER). Without access, or a clear pathway to obtain access to this data, interconnection efforts can be substantially delayed which will ultimately result in the Legislature's and PUC's goals for DER not being met.
C	Access to Aggregated Data by Feeder			

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1	Forecasted Annual Peak Load	Public	This data is useful to developers and poses very little security risk. It is not currently available to developers, even by request.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
2	Actual Annual Peak Load	Public	This data is useful to developers and poses very little security risk. It is not currently available to developers, even by request.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
3	Actual Daytime Minimum Load	Public	This data is already public , is useful to developers when accurate, and poses very little security risk.	Actual Daytime Minimum Load is necessary for developers to interconnection, and is extremely important for developers to have to ensure timely and efficient development and interconnection of DER. Without access to the most accurate and recently available data, developers efforts can be diminished and the State will be further away from reaching its energy goals. Further, given that this metric is a key benchmark for Xcel's determination of capacity, interconnection efficiency is best facilitated with public knowledge of capacity.
4	Load shapes (seasonal)	Certification Required	Data at this level is useful to developers but may contain confidential/customer information. As such it should be limited on HCA area maps but should be accessible to developers with certification.	Access to this data will help further the development and interconnection of DER. However, some areas of this data may contain sensitive data, such as consumer/commercial private data or critical energy infrastructure. As such, the majority of data should be accessible to the general public, with certification/NDA being required to access the rest.
5	Load shapes (hourly)	Certification Required	Data at this level is useful to developers but may contain confidential/customer information. As such it should be limited on HCA area maps but should be accessible to developers with certification.	Access to this data will help further the development and interconnection of DER. However, some areas of this data may contain sensitive data, such as consumer/commercial private data or critical energy infrastructure. As such, the majority of data should be accessible to the general public, with certification/NDA being required to access the rest.
6	Hosting Capacity Results (min. and max)	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
7	Hosting Capacity Criteria Violations	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
	Distributed Generation and Storage (kW), in operation	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
	Distributed Generation and Storage (kW), in queue	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
	Demand Response or other demand-side DER (kW) (EV chargers, EE, etc.)	Public	This data is useful to developers and poses very little security risk.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
D	Access to Aggregated Data by Node (Subsection of Feeder)			
1	Forecasted Annual Peak Load	Certification Required	This data is useful to developers, but may pose privacy concerns. As such it should be limited on HCA area maps but should be accessible to developers with certification. It is not currently available to developers, even by request.	Access to this data will help further the development and interconnection of DER, which is a public policy goal of the state. At the subsection level, there may be relevant security or privacy considerations that merit a layer of confidentiality. A certification of <i>bona fide</i> developer status appropriately balances these competing interests.

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2	Actual Annual Peak Load	Certification Required	This data is useful to developers, but may pose privacy concerns. As such it should be limited on HCA area maps but should be accessible to developers with certification. It is not currently available to developers, even by request.	Access to this data will help further the development and interconnection of DER, which is a public policy goal of the state. At the subsection level, there may be relevant security or privacy considerations that merit a layer of confidentiality. A certification of <i>bona fide</i> developer status appropriately balances these competing interests.
3	Actual Daytime Minimum Load	Certification Required	This data is useful to developers, but may pose privacy concerns. As such it should be limited on HCA area maps but should be accessible to developers with certification. It is not currently available to developers, even by request.	Access to this data will help further the development and interconnection of DER, which is a public policy goal of the state. At the subsection level, there may be relevant security or privacy considerations that merit a layer of confidentiality. A certification of <i>bona fide</i> developer status appropriately balances these competing interests.
4	Load shapes (seasonal)	Certification Required	This data is useful to developers, but may pose privacy concerns. As such it should be limited on HCA area maps but should be accessible to developers with certification. It is not currently available to developers, even by request.	Access to this data will help further the development and interconnection of DER, which is a public policy goal of the state. At the subsection level, there may be relevant security or privacy considerations that merit a layer of confidentiality. A certification of <i>bona fide</i> developer status appropriately balances these competing interests. This level of granularity will help developers site the most efficient DER, e.g. storage and solar-plus-storage.
5	Load shapes (hourly)	Certification Required	This data is useful to developers, but may pose privacy concerns. As such it should be limited on HCA area maps but should be accessible to developers with certification. It is not currently available to developers, even by request.	Access to this data will help further the development and interconnection of DER, which is a public policy goal of the state. At the subsection level, there may be relevant security or privacy considerations that merit a layer of confidentiality. A certification of <i>bona fide</i> developer status appropriately balances these competing interests. This level of granularity will help developers site the most efficient DER, e.g. storage and solar-plus-storage.
6	Hosting Capacity Results (min. and max)	Public	This data is useful to developers and poses very little security risk. It is already publicly available.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
7	Hosting Capacity Criteria Violations	Public	This data is useful to developers and poses very little security risk. It is not currently available to developers, even by request.	Access to this data promotes continued growth and development of DER while posing very little risk to the public.
8	Distributed Generation and Storage (kW), in operation	Certification Required	This data is useful to developers and poses very little security risk. It is publicly available at the feeder level.	Knowledge of DG in operation at the subsection level may reasonably be seen as posing privacy and/or security concerns. However, expanding this access to the subsection level with certification would promote more efficient DER interconnection.
9	Distributed Generation and Storage (kW), in queue	Certification Required	This data is useful to developers and poses very little security risk. It is publicly available at the feeder level.	Knowledge of DG in operation at the subsection level may reasonably be seen as posing privacy and/or security concerns. However, expanding this access to the subsection level with certification would promote more efficient DER interconnection.
10	Demand Response or other demand-side DER (kW) (EV chargers, EE, etc.)	Certification Required	Data at this level is useful to developers, but may contain confidential customer information.	Access to this data will help further the development and interconnection of DER, which is a public policy goal of the state. At the subsection level, there may be relevant security or privacy considerations that merit a layer of confidentiality. A certification of <i>bona fide</i> developer status appropriately balances these competing interests.
E	Access to Aggregated Data by Secondary			
1	Forecasted Annual Peak Load	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.

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2	Actual Annual Peak Load	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
3	Actual Daytime Minimum Load	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
4	Load shapes (seasonal)	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
5	Load shapes (hourly)	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
6	Hosting Capacity Results (min. and max)	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
7	Hosting Capacity Criteria Violations	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
8	Distributed Generation and Storage (kW), in operation	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
9	Distributed Generation and Storage (kW), in queue	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
10	Demand Response or other demand-side DER (kW) (EV chargers, EE, etc.)	Certification Required	Private/confidential information on individual consumers/entities may be at risk at this level of data access.	Data on this level has a high probability of containing sensitive information, and as such, it should not be available to the general public. However, this data should be available to certified developers.
F	OTHER DATA			
#	<i>[If desired, identify additional electric distribution or aggregate customer data requested for public display or access subject to security claims]</i>			

[ftnref1](#)

Note 1: Restricted refers to entities that have demonstrated a need to know and have received certification through the Department of Commerce as suggested in MnSEIA's Comments.