

The AESO uses GIS data in multiple ways. To parties external to the AESO, the most visible use is in report maps and in the Alberta Interconnected Electric System (AIES) Map. GIS data is also used internally for planning purposes and at the AESO System Control Center.

The GIS data that the AESO is looking for is proposed project route data that was submitted to the Alberta Utilities Commission (AUC) to obtain Permit and License (P&L), and any changes to the data since P&L was issued. If there are route alternatives that are still being considered 100 days prior to energization, please clearly identify the preferred option.

The AESO would like all data to be supplied in NAD83.

Transmission Lines

The format for transmission lines is polyline format.

Other than the required shapefile fields, the AESO requests the following data fields be added and filled in:

Facility Code	Voltage	Point A	Point B	Double Circuit	In-service date
---------------	---------	---------	---------	----------------	-----------------

Facility Code: This is the unique – usually numeric character string – that is used as an identifier for transmission lines (e.g. 911L, 7L56L).

Voltage: This is the operating voltage (kV) of the transmission line (e.g. 144, 240).

Point A: This is the first substation that transmission line is connected to, indicated by the Facility Code (e.g. 790S, 120S).

Point B: This is the second substation point that the transmission line connects to.

Double Circuit: If this line is double circuit with another line this is the Facility Code of the second transmission line.

In-service date: The date that the transmission line is expected to go into service in SI format (YYYY-MM-DD).

Substations

The format for substations is polygon format.

Other than the required shapefile fields, the AESO requests the following data fields be added and filled in:

Facility Code	Name	In-service date
---------------	------	-----------------

Facility Code: This is the unique, usually numeric character string that is used as a prefix to the substation name (e.g. 20S, 888S).

Name: This is the common name given to substations (e.g. Ghost, Dover).

In-service date: The date that the transmission line is expected to go into service in SI format (YYYY-MM-DD).