Consolidated Authoritative Document Glossary

Term	Definition
"10 minute clock period"	means any one of the following six (6) ten (10) minute periods in any hour: ME:01 to ME:10; ME:11 to ME:20; ME21 to ME30; ME31 to ME40; ME:41 to ME50; ME51 to ME60 where "ME" means minute ending.
	[Rules (2009-09-01)]
"acceptable operational reason"	means: (i) any one or more of the following for a **pool asset**, that is not an import asset or export asset: a) a circumstance related to the operation of a **pool asset** which, if it operated could reasonably be expected to affect the safety of the **pool asset**, the environment, personnel working at the **pool asset** or the public; b) re-positioning a **pool asset**, within the energy market due to the need to meet a **dispatch** given to that **pool asset** from the **ISO** to provide stand-by **operating reserves** or **fast frequency response service**; c) re-positioning a **pool asset** within the energy market to manage physical or operational constraints associated with the **pool asset**; d) a circumstance directly resulting in the **pool asset** not being capable of operation, which circumstance was solely caused by an occurrence of **force majeure**; e) re-positioning a **pool asset** for electric energy that is: A. produced on the property of which a **person** is the owner or a tenant; and B. consumed solely by that **person** and solely on that property; or (ii) re-positioning a **pool asset** that is an import asset or an export asset within the energy market to manage physical or operational constraints associated with an interconnection or a neighbouring **balancing authority**.
	[Rules (2024-05-31)]
"accuracy range"	means an expression of a **cost estimate**'s predicted closeness to final actual costs, which is typically expressed as high/low percentages by which actual results will be over and under the **cost estimate**.
	[Rules (2016-04-29)]
"Act"	means the *Electric Utilities Act* and any regulations made under it.
	[Rules (2011-07-01), Tariff (2011-07-01)]
"actual net interchange"	means the algebraic sum of actual MW transfers across all tie lines, including pseudo-ties, to and from all **adjacent balancing authorities** within the same **Interconnection**.
	[Alberta Reliability Standards (2019-07-01)]
"adequacy"	means the ability of the **interconnected electric system** to supply the aggregate electrical demand and energy requirements of **market participants** receiving **system access service**, taking into account **planned outages** and

Consolidated Authoritative Document Glossary

Term	Definition
	reasonably expected **delayed forced outages** and **automatic forced outages** of system elements.
	[Rules (2014-07-02)]
"adjacent balancing authority"	means a **balancing authority area** that is interconnected with another **balancing authority area** either directly or via a multi-party agreement or transmission tariff.
	[Alberta Reliability Standards (2010-01-22)]
"adverse reliability impact"	means the impact of an event that results in frequency-related instability; unplanned tripping of load or generation; or uncontrolled separation or cascading outages that affects a widespread area of the **Interconnection**.
	[Alberta Reliability Standards (2017-10-01)]
"affiliate"	as defined in the *Business Corporations Act* means an affiliated body corporate within the meaning of section 2(1) of that Act, which section states: (a) one body corporate is affiliated with another body corporate if one of them is the subsidiary of the other or both are subsidiaries of the same body corporate or each of them is controlled by the same person, and (b) if 2 bodies corporate are affiliated with the same body corporate at the same time, they are deemed to be affiliated with each other.
	[Rules (2010-12-01), Tariff (2011-07-01)]
"agent"	includes: (i) a representative of a **pool participant** duly appointed and authorized by the **pool participant** under Section 201.2 of the **ISO rules**, *Appointment of Agent* to act on behalf of and bind the **pool participant** with regard to transactions and other activities on the Energy Trading System and the automated dispatch and messaging system; or (ii) a representative of a **market participant** or a **pool participant**, as the case may be, duly appointed and authorized to act on behalf of and bind that person with regard to other **ISO** activities, procedures and requirements, which such appointment is made under and in accordance with the applicable **ISO rules**, authorizations and procedures.
	[Rules (2020-09-16)]
"agent"	includes: (i) a representative of a **pool participant** duly appointed and authorized by the **pool participant** under section 201.2 of the **ISO rules**, *Appointment of Agent* to act on behalf of and bind the **pool participant** with regard to transactions and other activities on the Energy Trading System and the Automated Dispatch and Messaging System; or (ii) a representative of a **market participant** or a **pool participant**, as the case may be, duly appointed and authorized to act on behalf of and bind that **person** with regard to other **ISO** activities, procedures and requirements, which such appointment is made under and in accordance with the applicable **ISO rules**, authorizations and procedures.
	[Alberta Reliability Standards (2014-10-01)]
"aggregated facility"	means unless otherwise designated by the **ISO**, an aggregation of 2 or more **generating units** or **energy storage resources**, or a combination thereof, including any associated **reactive power** resources, where: (i) each **generating unit** or **energy storage resource** is rated less than 9 MW; (ii) all **generating units** and **energy storage resources** are situated in the same proximate location and have a common **collector bus** or multiple **collector busses** that can be operated as a common **collector bus**; and

Consolidated Authoritative Document Glossary

Term	Definition
	(iii) the **aggregated facility** is connected to the **interconnected electric system** or the electrical system in the service area of the City of Medicine Hat.
	[Rules (2024-04-01)]
"aggregated generating facility"	means an aggregation of **generating units**, including any **reactive power** resources, which: (i) the **ISO** designates as an aggregated generating facility; and (i) are situated in the same proximate location at one or more **point of connections**.
	[Alberta Reliability Standards (2011-12-31)]
"aggregated generating facility"	means, unless otherwise designated by the **ISO**, an aggregation of 2 or more **generating units**, including any associated **reactive power** resources, where: (i) each **generating unit** is rated less than 9 MW; (ii) all **generating units** are situated in the same proximate location and have a common **collector bus** or multiple **collector busses** that can be operated as a common **collector bus**; and (iii) the **aggregated generating facility** is connected to the **interconnected electric system** or the electrical system in the service area of the City of Medicine Hat.
	[Tariff (2021-01-01)]
"Alberta interchange capability"	means the amount of **interconnected electric system** transmission capability the **ISO** determines is available for allocation to all transfer paths, after subtracting amounts for relevant factors including **system operating limits**, generating capacity and **Alberta internal load**.
	[Rules (2012-01-31)]
"Alberta internal load"	means a number in MW: (i) that represents, in an hour, **system load** plus load served by an on-site **generating unit**, **aggregated facility**, or **energy storage resource**, including those within an industrial system and the City of Medicine Hat; and (ii) which the **ISO**, using supervisory control and data acquisition data, calculates as the sum of the energy produced by each **generating unit**, **aggregated facility**, and **energy storage resource** in Alberta and the Fort Nelson area in British Columbia, plus import volumes and minus export volumes.
	[Rules (2024-04-01)]
"allowable dispatch variance"	means: (i) for a **source asset** that is **controllable**, as measured from the **dispatch** quantity: (a) plus or minus 5 MW for a **source asset** with a **maximum capability** of 200 MW or less; or (b) plus or minus 10 MW for a **source asset**, with a **maximum capability** of greater than 200 MW; (ii) for a **source asset** that is **non-controllable** with a **maximum capability** of 200MW or less: (a) 5 MW greater than the **dispatch** quantity and 5 MW less than the potential **real power** capability, if the potential **real power** capability is less than the **dispatch** quantity; or (b) plus or minus 5 MW from the **dispatch** quantity, if the potential **real power** capability is greater than or equal to the **dispatch** quantity; (iii) for a **source asset** that is **non-controllable** with a **maximum capability** of greater than 200 MW:

Consolidated Authoritative Document Glossary

Term	Definition
	(a) 10 MW greater than the **dispatch** quantity and 10 MW less than the potential **real power** capability, if the potential **real power** capability is less than the **dispatch** quantity; or (b) plus or minus 10 MW from the **dispatch** quantity, if the potential **real power** capability is greater than or equal to the **dispatch** quantity; (iv) for a **source asset** that is **partially-controllable** with a **maximum capability** of 200 MW or less, when the **source asset** is dispatched within the variable energy resource quantity: (a) 5 MW greater and 5 MW less than the potential **real power** capability, if the potential **real power** capability is less than the **dispatch** quantity; or (b) plus or minus 5 MW from the **dispatch** quantity, if the potential **real power** capability is greater than or equal to the **dispatch** quantity; (v) for a **source asset** that is **partially-controllable** with a **maximum capability** greater than 200 MW, when the **source asset** is dispatched within the **variable energy resource quantity**: (a) 10 MW greater 10 MW less than the potential **real power** capability, if the potential **real power** capability is less than the **dispatch** quantity; or (b) plus or minus 10 MW from the **dispatch** quantity, if the potential **real power** capability is greater than or equal to the **dispatch** quantity; (vi) for a **source asset** that is **partially-controllable,** when the **source asset** is dispatched outside the **variable energy resource quantity**: (a) plus or minus 5 MW of the **dispatch** quantity less the dispatched variable energy resource quantity, plus the potential **real power** capability for a **source asset** with a **maximum capability** of 200 MW or less; or (b) plus or minus 10 MW of the **dispatch** quantity less the dispatched variable energy resource quantity, plus the potential **real power** capability for a **source asset** with a **maximum capability** of greater than 200 MW.
	[Rules (2024-04-01)]
"ancillary services"	as defined in the **Act** means those services required to ensure that the **interconnected electric system** is operated in a manner that provides a satisfactory level of service with acceptable levels of voltage and frequency.
	[Rules (2010-12-01), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
"anticipated supply cushion"	means the supply cushion as determined by the **ISO** in accordance with subsection 4 of Section 206.2 of the **ISO rules**, *Interim Supply Cushion Directives* and section 4 of the *Supply Cushion Regulation*, Alberta Regulation 42/2024.
	[Rules (2024-07-01)]
"apparent power"	means the total power, in MVA, in an alternating current power system and is calculated as the vector sum of **real power** and **reactive power.**
	[Rules (2010-07-23), Alberta Reliability Standards (2011-12-31), Tariff (2011-07-01)]
"area control error"	means the instantaneous difference between actual **interchange** and scheduled **interchange**, taking into account the effects of **frequency bias**, time error and unilateral **inadvertent interchange** if automatic correction is part of the **automatic generation control** of the **interconnected electric system**, and a correction for metering error.
	[Alberta Reliability Standards (2019-07-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"arranged interchange"	means the state where the **interchange authority** has received the **interchange** information (initial or revised).
	[Alberta Reliability Standards (2010-01-22)]
"AUC Act"	means the *Alberta Utilities Commission Act*, as amended from time to time.
	[Rules (2003-06-01)]
"automatic forced outage"	means the unavailability of a facility which is not anticipated as part of a **legal owner**'s regular maintenance and occurs as a result of an automatic or accidental action.
	[Rules (2014-07-02)]
"automatic generation control"	means equipment that adjusts generation in a **balancing authority area** from a central location to maintain frequency or **interchange schedule** plus or minus **frequency bias**; and may also accommodate automatic inadvertent payback and **time error correction**.
	[Alberta Reliability Standards (2014-10-01)]
"automatic generation control"	means a process of adjusting resources that produce or consume electrical energy in a **balancing authority area** from a central location to: (i) maintain the **balancing authority**'s frequency or **interchange schedule**, plus or minus **frequency bias**; or (ii) accommodate automatic inadvertent payback and **time error correction**.
	[Rules (2024-04-01)]
"automatic time error correction"	means the component of the **area control error** equation for the **western interconnection** that is added to modify the control point for the purpose of continuously paying back **primary inadvertent interchange** to correct accumulated **time error**.
	[Alberta Reliability Standards (2016-12-19)]
"automatic voltage regulator (AVR)"	means the automatic control equipment that adjusts and continuously maintains the voltage level of a **generating unit** or an **energy storage resource**.
	[Rules (2024-04-01)]
"automatic voltage regulator (AVR)"	means the automatic control equipment that adjusts the excitation level of a **generating unit** to maintain voltage levels.
	[Alberta Reliability Standards (2016-04-01), Tariff (2015-07-01)]
"available capability"	means: (i) for a **source asset**, excluding an import asset, the maximum MW that the source asset is physically capable of providing; or (ii) for an import **source asset**, the MW that the **pool participant** submits in an **offer**.
	[Rules (2024-04-01)]
"available transfer capability"	means the remaining transfer capability the **ISO** determines can be commercially available for transfers over the interconnected transmission network over and above already committed uses, and is calculated as the **total transfer capability** minus the sum of any applicable **transmission reliability margin** and existing transmission commitments.
	[Rules (2012-01-31)]
"balancing authority"	means a responsible entity that integrates resource plans ahead of time, maintains load-**interchange** generation balance within a **balancing authority area** and supports **Interconnection** frequency in real time.
	[Alberta Reliability Standards (2014-10-01)]
"balancing authority"	means the responsible entity that integrates resource plans ahead of time, maintains load-interchange-generation balance within a **balancing authority area**, and supports **interconnection** frequency in real time.
	[Rules (2009-05-28)]

Consolidated Authoritative Document Glossary

Term	Definition
"balancing authority area"	means the collection of generation, transmission and loads, within the metered boundaries of the **balancing authority** and for which the **balancing authority** maintains load-resource balance.
	[Rules (2010-12-01), Alberta Reliability Standards (2014-10-01), Tariff (2021-01-01)]
"balancing contingency event"	means any single event described in subsections (a), (b), or (c) below, or any series of such otherwise single events with each separated from the next by one minute or less: (a) sudden loss of generation: (i) due to: (A) **generating unit** tripping; (B) loss of **aggregating**; **generating facility** resulting in isolation from the **bulk electric system** or from the **interconnected electric system**; or (C) sudden unplanned outage of a **transmission facility**; and (ii) that causes an unexpected change to the **ISO**'s **area control error**; (b) sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and **demand** on the **Interconnection**; and (c) sudden restoration of a **demand** resource that causes an unexpected change to the **ISO**'s **area control error**.
	[Alberta Reliability Standards (2019-07-01)]
"BES cyber asset"	means a **cyber asset** that if rendered unavailable, degraded, or misused would, within 15 minutes of its required operation, misoperation, or non-operation, adversely impact one or more facilities, systems, or equipment, which, if destroyed, degraded, or otherwise rendered unavailable when needed, would affect the reliable operation of the **bulk electric system**. Redundancy of affected facilities, systems, and equipment shall not be considered when determining adverse impact. Each **BES cyber asset** is included in one or more **BES cyber systems**. (A **cyber asset** is not a **BES cyber asset** if, for 30 consecutive **days** or less, it is directly connected to a network within **an electronic security perimeter**, a **cyber asset** within an **electronic security perimeter**, or to a **BES cyber asset**, and it is used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.)
	[Alberta Reliability Standards (2017-10-01)]
"BES cyber system"	means one or more **BES cyber assets** logically grouped to perform one or more reliability tasks for a functional entity.
	[Alberta Reliability Standards (2017-10-01)]
"BES cyber system information"	means information about the **BES cyber system** that could be used to gain unauthorized access or pose a security threat to the **BES cyber system**. **BES cyber system** information does not include individual pieces of information that by themselves do not pose a threat or could not be used to allow unauthorized access to **BES cyber systems**, such as, but not limited to, device names, individual IP addresses without context, **electronic security perimeter** names, or policy statements.
	[Alberta Reliability Standards (2017-10-01)]
"bid"	means, in respect of a **pool asset** in a **settlement interval**, a **pool participant** submission to purchase: (i) electric energy and includes all of the **operating blocks** the **pool participant** uses for that submission; or (ii) **operating reserves** from applicable Alberta markets.
	[Rules (2012-12-03)] [Tariff (2025-02-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"billing capacity"	means, at a **point of delivery**, the highest of: (i) the highest 15-minute **metered demand** in the **settlement period**; (ii) 90% of the highest **metered demand** in the 24-month period including and ending with the **settlement period**, but excluding any months during which **commissioning** occurs; or (iii) 90% of the **contract capacity** or, when the **settlement period** contains a transaction under Rate DOS, 100% of the **contract capacity**.
	[Tariff (2011-07-01)]
"blackstart resource"	means a **generating unit(s)** or **aggregated generating facility** and its associated set of equipment which has the ability to be started without support from the system or is designed to remain energized without connection to the remainder of the system, with the ability to energize a dead bus, meeting the **ISO**'s restoration plan needs for **real power** and **reactive power** capability, frequency and voltage control, and that has been included in the **ISO**'s restoration plan.
	[Alberta Reliability Standards (2017-10-01)]
"bulk electric system"	as defined by the Regional Reliability Organization, means the electrical generation resources, transmission lines, **interconnections**, with neighbouring **systems**, and associated equipment, generally operated at voltages of one hundred (100) kV or higher; radial **transmission facilities** serving only load with one (1) transmission source are generally not included in this definition.
	[Rules (2016-08-30), Alberta Reliability Standards (2014-10-01): This definition will no longer be in effect for Alberta Reliability Standards as of 2022-08-06]
"bulk electric system"	means all **system elements** that are included in the following: (i) all **system elements** that have all terminals energized at 100 kV or higher that are not part of a **radial circuit**; (ii) a **radial circuit** comprised of **system elements** that have all terminals energized at 100 kV or higher where the **radial circuit** connects to: (a) any facility included in items (iv) through (vii) below; or (b) 2 or more generating resources, being **generating units** and **aggregated generating facilities**, that have a combined **maximum authorized real power** higher than 67.5 MW; (iii) a transformer that has its primary terminal and at least one secondary terminal energized at 100 kV or higher; (iv) a **generating unit** that has a **maximum authorized real power** higher than 18 MW where **system access service** is provided through a switchyard that is directly connected to **transmission facilities** energized at 100 kV or higher, including all **system elements** from the terminal of the **generating unit** to the **transmission facilities** energized at 100 kV or higher; (v) an **aggregated generating facility** that has a **maximum authorized real power** higher than 67.5 MW where **system access service** is provided through a switchyard that is directly connected to **transmission facilities** energized at 100 kV or higher, including all **system elements** from the collector bus to the **transmission facilities** energized at 100 kV or higher, and excluding the **generating units** and the collector system feeders; (vi) all **generating units** and **aggregated generating facilities** where **system access service** is provided through a common switchyard that is directly connected to **transmission facilities** energized at 100 kV or higher and the **generating units** and **aggregated generating facilities** have a combined **maximum authorized real power** higher than 67.5 MW, including all **system elements** from the terminal of each **generating unit** and from the collector bus of each **aggregated generating facility** to

Term	Definition
	transmission facilities energized at 100 kV or higher, and excluding the **generating units** and collector system feeders of each **aggregated generating facility**; (vii) a **blackstart resource**, including all **system elements** from the terminal of the **blackstart resource** to **transmission facilities** that are energized at 100 kV or higher; and (viii) a static or dynamic **reactive power** resource that is dedicated to supplying or absorbing **reactive power** to or from the **transmission system** and is connected: (a) to **transmission facilities** energized at 100 kV or higher; (b) through a dedicated transformer that is directly connected to **transmission facilities** energized at 100 kV or higher; or (c) through a non-dedicated transformer that has its primary terminal and at least one secondary terminal energized at 100 kV or higher; including all **system elements** from the terminal of the **reactive power** resource to the **transmission facilities** energized at 100 kV or higher.
	[Alberta Reliability Standards (2020-08-06)] [Alberta Reliability Standards 2022-08-06: for facilities that are not currently considered part of the bulk electric system under the version of the definition in effect on 2014-10-01 but will be part of the bulk electric system under the version of the definition approved on 2020-08-06]
"bulk transmission line"	**"bulk transmission line"** means a system or arrangement of lines of wire or other conductors and related equipment, wholly in Alberta, whereby electric energy is transmitted in bulk and includes: (i) transmission circuits composed of the conductors that form the minimum set required to so transmit electric energy; (ii) insulating and supporting structures; and (iii) all property of any kind used for the purpose of, or in connection with, or incidental to, the operation of such a line; but does not include: (iv) a substation, (v) operational and control devices; (vi) a **generating unit**; (vii) an **aggregated facility**; (viii) an **energy storage resource**; or an **electric distribution system**.
	[Rules (2024-04-01)]
"business day"	means a **day** other than: (i) a Saturday; or (ii) a holiday as that term is defined in the *Interpretation Act*
	[Rules (2020-09-16)]
"business day"	means a **day** other than: (ii) a holiday during which banks in Alberta are generally closed; (iii) Saturday; or (iv) Sunday.
	[Alberta Reliability Standards (2011-12-31)]

Consolidated Authoritative Document Glossary

Term	Definition
"business day"	as defined in the **Act** means a **day** other than a Saturday or a holiday as defined in the *Interpretation Act*.
	[Tariff (2021-01-01)]
"calibration factor"	means an adjustment to the loss charges ensuring that the actual cost of losses is reasonably recovered through charges and credits under the **ISO tariff** on an annual basis.
	[Rules (2012-10-10), Tariff (2015-07-01)]
"cascading"	means the uncontrolled successive loss of system elements triggered by an incident at any location, resulting in widespread electric services interruption that cannot be restrained from sequentially spreading beyond an area predetermined by studies.
	[Alberta Reliability Standards (2014-10-01)]
"CIP exceptional circumstance"	means a situation that involves or threatens to involve one or more of the following, or similar, conditions that impact safety or **bulk electric system** reliability: a risk of injury or death; a natural disaster; civil unrest; an imminent or existing hardware, software, or equipment failure; a **cyber security incident** requiring emergency assistance; a response by emergency services; the enactment of a mutual assistance agreement; or an impediment of large scale workforce availability.
	[Alberta Reliability Standards (2017-10-01)]
"CIP senior manager"	means a single senior management official with overall authority and responsibility for leading and managing implementation of and continuing adherence to the requirements within the CIP **reliability standards**.
	[Alberta Reliability Standards (2024-10-01)]
"collector bus"	means the low voltage side of any step-up transformers connected to the **transmission system** where the **real power** and **reactive power** produced by any **generating units** or **reactive power** resources, or both of them, are collected.
	[Alberta Reliability Standards (2011-12-31)]
"collector bus"	means the low voltage side of any step-up transformer connected to the **interconnected electric system** or the electrical system in the City of Medicine Hat where **real power** and **reactive power** are collected within an **aggregated facility**.
	[Rules (2024-04-01)]
"commercial operation"	means the date upon which a load, **generating unit, aggregated facility**, or **energy storage resource** begins to operate on the **transmission system** in a manner acceptable to the **ISO** and which is expected to be normal for it to operate, after energization and **commissioning**.
	[Rules (2024-04-01)]
"commercial operation"	means the date upon which a load, **generating unit** or **aggregated generating facility** begins to operate on the **transmission system** in a manner which is acceptable to the **ISO** and which is expected to be normal for it to so operate, after energization and **commissioning**.
	[Tariff (2015-07-01)]
"Commission"	as defined in the **Act** means the Alberta Utilities Commission established by the *Alberta Utilities Commission Act*.
	[Rules (2010-12-01), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"commissioning"	means: (i) in the case of a new **generating unit**, a new **aggregated facility**, or a new **energy storage resource**, the process of carrying out, after connection to the **interconnected electric system** but before **commercial operation**, activities designed to test equipment or the facility, or a process to confirm that the facility can satisfactorily enter **commercial operation** and, where applicable, meets the **ISO**'s requirements and other relevant standards; (ii) in the case of an existing **generating unit,** an existing **aggregated facility**, or an existing **energy storage resource** that is being modified, the process of carrying out activities designed to test equipment or the facility, or confirm that the facility can satisfactorily continue in **commercial operation** and, where applicable, continue to meet the **ISO**'s requirements and other relevant standards; (iii) in the case of a new **transmission facility** or a new load facility, the process of carrying out, after **energization** but before normal operation, activities designed to test equipment or the facility, or confirm that the facility can satisfactorily enter normal operation and, where applicable, meets the **ISO**'s requirements and other relevant standards; and (iv) in the case of an existing **transmission facility** or an existing load facility that is being upgraded in the form of a requested increase in capacity or revised functionality, the process of carrying out activities designed to test equipment or the facility, or confirm that the facility can satisfactorily continue in normal operation and, where applicable, continue to meet the **ISO**'s requirements and other relevant standards.
	[Rules (2024-04-01)]
"commissioning"	means: (i) in the case of a new **generating unit** or a new **aggregated generating facility**, the process of carrying out, after connection to the **interconnected electric system** but before **commercial operation**, activities designed to test equipment, the facility or a process to confirm that the facility can satisfactorily enter **commercial operation** and, where applicable, meets the **ISO**'s requirements and other relevant standards; (ii) in the case of an existing **generating unit** or an existing **aggregated generating facility** that is being modified, the process of carrying out activities designed to test equipment, the facility or a process to confirm that the facility can satisfactorily continue in **commercial operation** and, where applicable, continue to meet the **ISO**'s requirements and other relevant standards; (iii) in the case of a new **transmission facility** or a new load facility, the process of carrying out, after **energization** but before normal operation, activities designed to test equipment, the facility or a process to confirm that the facility can satisfactorily enter normal operation and, where applicable, meets the **ISO**'s requirements and other relevant standards; and (iv) in the case of an existing **transmission facility** or an existing load facility that is being upgraded in the form of a requested increase in capacity or revised functionality, the process of carrying out activities designed to test equipment, a facility or a process to confirm that the facility can satisfactorily continue in normal operation and, where applicable, continue to meet the **ISO**'s requirements and other relevant standards.
	[Tariff (2021-01-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"confirmed interchange"	means the state where the **interchange authority** has verified the **arranged interchange**.
	[Alberta Reliability Standards (2010-01-22)]
"constraint effective factor"	means a ratio, based on the results of load flow studies conducted by the **ISO**, of the change in the flow of electric energy through a **transmission constraint** to a change in energy production, energy consumption or an electric energy flow across an **interconnection**.
	[Rules (2011-05-05)]
"construction contribution"	means the financial contribution in aid of construction, in excess of any available maximum local investment, that a **market participant** must pay for the construction and associated costs of **transmission facilities** required to provide **system access service**.
	[Tariff (2011-07-01)]
"contingency"	means the unexpected failure or outage of a system component, such as a **generating unit**, transmission line, circuit breaker, switch or electrical element.
	[Rules (2014-12-23), Alberta Reliability Standards (2014-10-01)]
"contingency reserve"	means the component of **operating reserve** used to recover the area control error in accordance with **reliability standards**.
	[Rules (2014-12-23)]
"contingency reserve"	means the **operating reserve** used to recover the **area control error** according to **WECC** criteria.
	[Alberta Reliability Standards (2014-10-01)]
"contract capacity"	means the peak demand or supply capability, in MW, as set out in an agreement for **system access service**.
	[Rules (2010-12-01), Tariff (2011-07-01)]
"control centre"	means one or more facilities, including their associated data centres, hosting operating personnel that monitor and control the **bulk electric system** in real-time to perform the reliability tasks of any one or more of: (i) the **ISO**; (ii) an **operator** of a **transmission facility** for **transmission facilities** at 2 or more locations; and (iii) an **operator** of a **generating unit**, an **aggregated facility**, or an **energy storage resource** for either **generating units**, **aggregated facilities**, or **energy storage resource** at 2 or more locations.
	[Rules (2024-04-01)]
"control centre"	means one or more facilities hosting operating personnel that monitor and control the **bulk electric system** in real-time to perform the reliability tasks, including their associated data centres, of: 1) the **ISO**, 2) an **operator** of a **transmission facility** for **transmission facilities** at two (2) or more locations, or 3) an **operator** of a **generating unit** or an **operator** of an **aggregated generating facility** for either **generating units** or **aggregated generating facilities** at two (2) or more locations.
	[Alberta Reliability Standards (2017-10-01)]
"control performance standard"	means the **reliability standard** that sets the limits of the **area control error** of a **balancing authority** over a specified time period.
	[Alberta Reliability Standards (2014-10-01)]
"cost estimate"	means a compilation of all the probable costs of the elements of a project included within a defined scope. The **cost estimate** is to be provided in the form of the “Cost Estimating Template” available on the AESO website.
	[Rules (2016-04-29)]

Consolidated Authoritative Document Glossary

Term	Definition
"cranking path"	means a portion of the electric system that can be isolated and then energized to deliver electric power from a generation source to enable the startup of one or more other **generating units** or **aggregated generating facilities**.
	[Alberta Reliability Standards (2017-10-01)]
"cyber asset"	means programmable electronic devices, including the hardware, software, and data in those devices.
	[Alberta Reliability Standards (2017-10-01)]
"cyber security incident"	means a malicious act or suspicious event that: • compromises, or was an attempt to compromise, the **electronic security perimeter** or **physical security perimeter**, or • disrupts, or was an attempt to disrupt, the operation of a **BES cyber system**.
	[Alberta Reliability Standards (2017-10-01)]
"day"	means the twenty-four (24) hour period in Alberta beginning at 00:00:00 and ending at 23:59:59
	[Rules (2026-11-01), Alberta Reliability Standards (2026-11-01)]
"day"	means the 24 hour period in Alberta beginning at 00:00:00 and ending at 23:59:59 but which (i) in the case of the day on which daylight savings begins, is 23 hours; or (ii) in the case of the day on which daylight savings ends, is 25 hours.
	[Tariff (2021-01-01)]
"delayed forced outage"	means the unavailability of a facility which is not anticipated and occurs as a result of a deliberate, manual action.
	[Rules (2014-07-02)]
"demand"	means: (i) the rate at which electric energy is delivered to or by a system or part of a system, generally expressed in MW, at a given instant or averaged over any designated interval of time; or (ii) the rate at which electric energy is being used.
	[Alberta Reliability Standards (2014-10-01), Tariff (2015-07-01)]
"dependability-based misoperation"	means the absence of a **protection system** or **remedial action scheme** operation when intended.
	[Alberta Reliability Standards (2014-10-01)]
"Designated TFO"	means with respect to a **Project**, the **TFO** or **TFO**s whom the **ISO** has determined pursuant to **rule** 9.1.1, to be the **TFO** or **TFO**s eligible to be issued a **Direction** or to whom the **ISO** has issued a **Direction**, as the case may be but does not include a **TFO** where the person who is eligible to apply for the construction and operation of the **transmission facility** was determined by a competitive process developed by the **ISO** in accordance with the **Act**..
	[Rules (2016-11-29)]
"dial-up connectivity"	means a data communication link that is established when the communication equipment dials a phone number and negotiates a connection with the equipment on the other end of the link.
	[Alberta Reliability Standards (2017-10-01)]
"direct loss or damage"	as defined in the **Act** does not include loss of profits, loss of revenue, loss of production, loss of earnings, loss of contract or any other indirect, special or consequential loss or damage whatsoever arising out of or in any way connected with an Independent System Operator act.
	[Rules (2010-12-01)]
"Direction"	means where the **ISO** is authorized by legislation or regulation to either "direct" a **TFO** to assist the **ISO** or to do any other thing or where the **ISO** is authorized by the **ISO rules** to require a **market participant** to do any other thing, that the **ISO**

Consolidated Authoritative Document Glossary

Term	Definition
	has directed such **TFO** or **market participant** accordingly. A **market participant** or **TFO**, as the case may be, to whom a direction has been delivered by the **ISO** may refuse to comply with such direction only if such **market participant** or **TFO** notifies the **ISO** that the **market participant** or **TFO** considers that (a) a real and substantial risk of damage to its transmission facility or **generation unit** could result if the **direction** were complied with; (b) a real and substantial risk to the safety of its employees or the public could result if the **direction** were complied with; or (c) a real and substantial risk of undue injury to the environment could result if the **direction** were complied with.
	[Rules (2009-09-01)]
"directive"	means a direction the **ISO** gives to a **market participant** instructing the **market participant** to take any action the **ISO** deems necessary to maintain the **reliability** of the **interconnected electric system**.
	[Rules (2012-07-10), Alberta Reliability Standards (2014-10-01), Tariff 2021-01-01)]
"dispatch"	has the same meaning as that provided in the **Act**, which means a direction from the **ISO** to a **pool participant** to cause, permit or alter the exchange of electric energy or **ancillary services**.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)] [ISO Tariff (2025-02-01)]
"dispatch down service"	means a service which: (i) a **pool participant** elects to provide via an **offer**; and (ii) requires reducing energy production from a **source asset** in response to a **dispatch**.
	[Rules (2013-01-08)]
"disturbance"	means an unplanned event which produces an abnormal system condition or the effects experienced by a power system following a **contingency**, such as high or low frequency, abnormal voltage, or oscillations in the system.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)]
"disturbance control standard"	means a performance measure applied to a **balancing authority** (BA) or reserve sharing group (RSG) for recovering from a **disturbance** within fifteen (15) minutes by restoring **area control error** (ACE) to zero (0) or to its pre-**disturbance** level.
	[Alberta Reliability Standards (2014-10-01)]
"disturbance monitoring equipment"	means devices capable of monitoring and recording system data pertaining to a **disturbance**, including: (i) sequence of event recorders which record equipment response to the **disturbance**; (ii) fault recorders, which record actual waveform data replicating the system primary voltages and currents and which may include protective relays that provide this functionality; and (iii) dynamic **disturbance** recorders which record incidents that portray system behaviour during **disturbances**, such as low-frequency (0.1 Hz - 3 Hz) oscillations, abnormal frequency or voltage excursions, and which may include phasor measurement units.
	[Alberta Reliability Standards (2014-10-01)]
"downstream constraint side"	means, in relation to the transmission elements that comprise the **transmission constraint**, those elements of the **interconnected electric system** more proximate to the load or consumption side of the **transmission constraint** than to the supply side of the **transmission constraint**.
	[Rules (2011-05-05)]

Consolidated Authoritative Document Glossary

Term	Definition
"e-tag"	means an electronic identifier which contains specific transactional information, necessary for scheduling an **interchange transaction**.
	[Rules (2012-01-31), Alberta Reliability Standards (2014-10-01)]
"electric distribution system"	means the plant, works, equipment, systems and services necessary to distribute electricity in a service area, including energy storage approved by the **Commission** as part of an **electric distribution system**, but does not include a (i) a **generating unit**; (ii) a **transmission facility**; or (iii) an **energy storage resource**.
	[Rules (2024-04-01)]
"electric distribution system"	as defined in the **Act** means the plant, works, equipment, systems and services necessary to distribute electricity in a service area, but does not include a **generating unit** or a **transmission facility**.
	[Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
"electrical islands"	means a condition in the electrical system where geographical areas of the **interconnected electric system** electrically separate from the **interconnected electric system**, resulting from system **disturbances**, such that there exists both electricity production and consumption in these separated areas.
	[Rules (2024-04-01)]
"electronic access control or monitoring systems"	means **cyber assets** that perform electronic access control or electronic access monitoring of the **electronic security perimeter**(s) or **BES cyber systems**. This includes **intermediate systems**.
	[Alberta Reliability Standards (2017-10-01)]
"electronic access point"	means a **cyber asset** interface on an **electronic security perimeter** that allows routable communication between **cyber assets** outside an **electronic security perimeter** and **cyber assets** inside an **electronic security perimeter**.
	[Alberta Reliability Standards (2017-10-01)]
"electronic security perimeter"	means the logical border surrounding a network to which **BES cyber systems** are connected using a routable protocol.
	[Alberta Reliability Standards (2017-10-01)]
“eligible long lead time asset”	as defined in the Supply Cushion Regulation, Alberta Regulation 42/2024, means a **source asset** that requires more than one hour to synchronize to the **interconnected electric system**.
	[Rules (2024-06-21)]
"emergency"	means, as declared by the ISO, either: (i) any abnormal system condition which requires immediate manual or automatic action to prevent abnormal system frequency deviation, abnormal voltage levels, equipment damage, or tripping of system elements which might result in cascading effects; or (ii) a state in which the interconnected electric system lacks sufficient ancillary services.
	[Alberta Reliability Standards (2024-04-01)]
"emergency assistance"	means energy provided to the party experiencing a **system emergency**, by the other party.
	[Rules (2003-06-01)]
"emergency assistance"	means energy provided to a **person** experiencing a **system emergency**.
	[Alberta Reliability Standards (2014-10-01)]
"emergency rating"	means, as determined by the **legal owner** of the equipment or facility, the **equipment rating** or the **facility rating** that the equipment or facility can sustain for a specified period, and takes into account the physical or safety limits of the equipment or facility and assumes acceptable loss of equipment or facility life during the period.

Consolidated Authoritative Document Glossary

Term	Definition
	[Rules (2016-08-15)] [Alberta Reliability Standards (2019-01-01)]
“emissions costs”	as defined in the Supply Cushion Regulation, Alberta Regulation 42/2024, means the amount that a **pool participant** for an **eligible long lead time asset** pays in respect of the costs of complying with (i) section 12(3) of the *Technology Innovation and Emissions Reduction Regulation Alberta Regulation* 133/2019 and (ii) any similar obligation under an enactment governing greenhouse gas emissions in Alberta.
	[Rules (2024-06-21)]
"energy storage resource"	means a technology or process owned by a **pool participant** that is capable of using electric energy as an input, storing the energy for a period of time and then discharging electric energy as an output, and includes a share of the following associated facilities that are necessary for the safe, reliable, and economic operation of the **energy storage resource**, which may be used in common with **other energy storage resources**: (i) fuel and fuel handling equipment; (ii) cooling water facilities; (iii) switch yards; and (iv) other items.
	[Rules (2024-04-01)] [ISO Tariff (2025-02-01)]
"equipment rating"	means, as determined by the legal owner of the equipment, as applicable, the maximum and minimum voltage, current, frequency, **real power**, **reactive power** and **apparent power** limit of individual equipment under the following conditions: (i) steady state, (ii) short-circuit, and (iii) transient.
	[Rules (2016-08-15)]
"equipment rating"	means, as determined by the **legal owner** of the equipment, as applicable, the maximum and minimum voltage, current, frequency, **real power**, **reactive power** and **apparent power** limit of individual equipment under the following conditions: (i) steady state, (ii) short-circuit, and (iii) transient.
	[Alberta Reliability Standards (2019-01-01)]
"external routable connectivity"	means the ability to access a **BES cyber system** from a **cyber asset** that is outside of its associated **electronic security perimeter** via a bi-directional routable protocol connection.
	[Alberta Reliability Standards (2017-10-01)]
"facility rating"	means, as determined by the **legal owner** of the facility, the most limiting applicable **equipment rating** of the individual equipment that comprises the facility.
	[Rules (2016-08-15), Alberta Reliability Standards (2019-01-01)]
“fast frequency response service”	means a service that provides a change in **real power** supplied to the **interconnected electric system** in response to a change in frequency, which may be in the form of either one or both of a change in **real power** consumption or a change in **real power** production, but does not include **operating reserves** or primary frequency response.
	[ISO Rules (2024-05-31)]
"fault"	means an event occurring on an electric system such as a short circuit, a broken wire, or an intermittent connection.
	[Alberta Reliability Standards (2015-09-01)]
"final cost estimate"	means an *Association for the Advancement of Cost Engineering Practices* Class 1 **cost estimate**, which is a **cost estimate** in an **accuracy range** between -3 to -10% and +3 to +15%.
	[Rules (2016-04-29)]

Consolidated Authoritative Document Glossary

Term	Definition
"final cost report"	means a document to be completed in the form of the “Final Cost Report” posted on the AESO website.
	[Rules (2016-04-29)]
"final energization"	means the date on which a **transmission facility** project or **system access service** project, including a **project** that is energized in stages, is fully energized and operational, as specified in an energization certificate or energization checklist of the **ISO**.
	[Rules (2016-04-29)]
"financial information"	means any information and records about the business, credit and financial standing, condition and viability of a **market participant** or its credit support provider.
	[Rules (2011-07-01)]
"financial obligation"	means any debt, payment or similar obligation of a **market participant** actually incurred or likely to be incurred under the **ISO rules**, the **reliability standards**, the **ISO tariff**, the **Act** or as a counterparty to any contract with the **ISO**.
	[Rules (2024-05-02)]
"financial obligation"	means any debt, payment or similar obligation of a **market participant** actually incurred or likely to be incurred under the **ISO rules**, the **reliability standards**, the **ISO tariff** or as a counterparty to any contract with the **ISO**.
	[Tariff (2015-07-01)]
"financial security"	means sufficient enforceable credit support to secure the **financial obligations** of a **market participant** to the **ISO**.
	[Rules (2011-07-01)]
"financial security"	means sufficient enforceable credit support to secure the **financial obligations** of a **market participant** to the **ISO** or a **legal owner** of **transmission facilities**.
	[Tariff (2021-01-01)]
"firm interchange transaction"	means an import or export **interchange transaction** for which the **source balancing authority** carries the associated **operating reserve**.
	[Rules (2009-05-28)]
"firm load"	means the load to which the **ISO** and applicable **market participants** use reasonable best efforts to supply power without **interruption**.
	[Rules (2013-01-08)]
"firm load"	means the load that the **ISO** and system members will use reasonable best efforts to supply without interruption.
	[Alberta Reliability Standards (2014-10-01)]
"flexible block"	means an **operating block** in an energy **offer** for which the **ISO** may issue a **dispatch** for full or partial amounts of MW.
	[Rules (2013-01-08)]
"force majeure"	means any occurrence, and its effects, which: (i) is beyond the reasonable control of the **market participant**; (ii) could not have been avoided through the use of **good electric industry practice** or by the exercise of reasonable diligence; and (iii) prevents a **market participant** from performing its obligations under the **ISO rules**, **ISO tariff** or **reliability standards**, as applicable; but does not include a lack of finances or any occurrence which can be overcome by incurring reasonable additional expenses.
	[Rules (2014-07-02)]
"force majeure"	means any occurrence, and its effects, which: (i) is beyond, the reasonable control of the **ISO** or a **market participant**; (ii) could not have been avoided through the use of **good electric industry practice** or by the exercise of reasonable diligence; and

Consolidated Authoritative Document Glossary

Term	Definition
	(iii) prevents the **ISO** or a **market participant** from performing its obligations under the **ISO rules**, **ISO tariff** or **reliability standards**, as applicable; but does not include a lack of finances or any occurrence which can be overcome by incurring reasonable additional expenses.
	[Tariff (2015-07-01)]
"forced outage"	means the unavailability of a facility which is not anticipated as part of a **legal owner**'s regular maintenance and occurs as a result of an automatic or accidental action.
	[Tariff (2015-07-01)]
"forecast scheduling period"	means the seven (7) **day** period starting at 00:00:00 immediately following the **day** a **pool participant** submits a particular **bid** or **offer**.
	[Rules (2014-12-23)]
"frequency bias"	means a value, usually expressed in MW per zero point one Hz (MW/0.1 Hz), associated with a **balancing authority area** that approximates the **balancing authority area**'s response to the **frequency error** of the **Interconnection**.
	[Alberta Reliability Standards (2014-10-01)]
"frequency bias setting"	means a value, usually expressed in MW per zero point one Hz (MW/0.1 Hz), set into the **area control error** algorithm of a **balancing authority** that allows the **balancing authority** to contribute its **frequency response** to the **Interconnection**.
	[Alberta Reliability Standards (2014-10-01)]
"frequency error"	means the difference between the actual and scheduled frequency. (FA - FS);
	[Alberta Reliability Standards (2010-01-22)]
"frequency response"	means: (i) for an equipment, the ability of a system, or elements of the system, to react or respond to a change in system frequency; or (ii) for a system, the sum of the change in **demand**, plus the change in generation, divided by the change in frequency, expressed in MW per zero point one Hz (MW/0.1 Hz).
	[Alberta Reliability Standards (2014-10-01)]
"functionally equivalent remedial action scheme"	means a **remedial action scheme** that provides the same performance as follows: (i) each **remedial action scheme** can detect the same conditions and provide mitigation to comply with all **reliability standards**; and (ii) each **remedial action scheme** may have different components and operating characteristics.
	[Alberta Reliability Standards (2014-10-01)]
"functionally equivalent protection system"	means a **protection system** that provides performance as follows: (i) each **protection system** can detect the same faults within the zone of protection and provide the clearing times and coordination needed to comply with all **reliability standards**; and (ii) each **protection system** may have different components and operating characteristics.
	[Alberta Reliability Standards (2014-10-01)]
"generating asset steady state"	means the state of operation that begins the first **10 minute clock period** following the period in which the electricity production of a **source asset**, excluding an import asset, has reached the **allowable dispatch variance** for the **source asset**.
	[Rules (2024-04-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"generating unit"	as defined in the **Act** means the component of a power plant that produces, from any source, electric energy and **ancillary services**, and includes a share of the following associated facilities that are necessary for the safe, reliable and economic operation of the **generating unit**, which may be used in common with other **generating units**: (i) fuel and fuel handling equipment; (ii) cooling water facilities; (iii) switch yards; (iv) other items; but does not include an **energy storage resource**.
	[Rules (2024-04-01)]
"generating unit"	as defined in the **Act** means the component of a power plant that produces, from any source, electric energy and **ancillary services**, and includes a share of the following associated facilities that are necessary for the safe, reliable and economic operation of the **generating unit**, which may be used in common with other **generating units**: (i) fuel and fuel handling equipment; (ii) cooling water facilities; (iii) switch yards; (iv) other items.
	[Alberta Reliability Standards (2011-12-31), Tariff (2011-07-01)]
"good electric industry practice"	means the standard of practice attained by exercising that degree of knowledge, skill, diligence, prudence and foresight which would reasonably and ordinarily be expected from a skilled and experienced **person** engaged in the same type of undertaking in the same or similar circumstances, including determining what is reasonable in the circumstances having regard for safety, reliability and economic considerations but is not intended to be limited to the optimum practice, method or act, to the exclusion of all others, and rather is intended to include practices, methods and acts generally accepted in Alberta.
	[Rules (2010-12-01), Tariff (2011-07-01)]
"governor or **governor system"**	means automatic control equipment with speed droop characteristics to control generating unit speed and/or electric power output.
	[Alberta Reliability Standards (2014-10-01)]
"governor or **governor system"**	means automatic control equipment with frequency or speed droop characteristics to control: (i) the speed or electric power output of a **generating unit**, or both; (ii) the electric power input of a load; (iii) the electric power output or input of an **energy storage resource** , or both; or (iv) the speed or electric power output of an **aggregated facility**.
	[Rules (2024-04-01)]
"gross real power"	means: (i) for an **aggregated facility**, the sum of **real power** delivered by the **generating units** or **energy storage resources** measured at the **collector bus**; or (ii) for a **generating unit** or synchronous **energy storage resource**, the **real power** measurement at the stator winding terminal.
	[Rules (2024-04-01)]
"HEEA"	means the Hydro and Electric Energy Act (Alberta).
	[Rules (2003-06-01)]
"hh"	refers to the current clock hour.

Consolidated Authoritative Document Glossary

Term	Definition
	[Rules (2003-06-01)]
"hour ending or **HE"**	means the sixty (60) minute period ending that hour. For example, HE 24 includes the time between 23:00 and 24:00. For **pool price** and **dispatch** purposes, the hour starts at **hh**:00:00 and ends **hh**:59:59 for **hh**+1.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)]
"import load remedial action scheme"	means a service provided by one (1) or more **ancillary service** providers that consists of a transfer tripping scheme between the 500 kV circuit breakers at Langdon and Cranbrook on the Alberta-British Columbia **intertie** and one (1) or more **system access customer** load breakers which such service is designed so that the tripping of the **intertie** causes the load breakers to open automatically, within eight (8) cycles of the trip initiation of the 500 kV breakers.
	[Rules (2003-06-01)]
"in merit"	means: (i) for the energy market, an **operating block** whose price is at or below system marginal price; (ii) for **dispatch down service**, starting from the lowest priced **operating block,** the **operating blocks** with a sum of MW sufficient to meet the MW requirements for **dispatch down service** as applicable; or (iii) for standby **operating reserves**, any **offer** that the **ISO** accepts.
	[Rules (2024-05-31)]
"inadvertent interchange"	means the difference between the **net actual interchange** of the **balancing authority** and the **net interchange schedule** of the **balancing authority**.
	[Alberta Reliability Standards (2014-10-01)]
"incremental generation costs"	means, where the **ISO** has issued a **directive**: (i) for energy from a **long lead time asset**; or (ii) to cancel one or more of a **planned outage**, a **delayed forced outage**, or an **automatic forced outage** for a **source asset**, excluding an import asset; and (iii) the **directive** requires that the **long lead time asset** or the **source asset** be made available to, or to actually, operate, exchange electric energy, or provide **ancillary services**; the reasonable costs incurred that are reasonably attributed to compliance with the **directive** and which would have been avoided but for the **directive**, including: (iv) in the case of compliance with a **directive** for energy from a **long lead time asset**: (a) the actual costs of all variable charges from Rate STS of the **ISO tariff**, including any applicable **loss factors** charge or credit; (b) variable operational and maintenance charges; (c) fuel costs to start and run the **long lead time asset** or the **source asset,** excluding an import asset, and (d) other related reasonable costs; (v) in the case of compliance with a **directive** canceling a **planned outage**, a **delayed forced outage,** or an **automatic forced outage** for a **source asset**, excluding an import asset, costs incurred: (a) to plan, prepare for and execute the outage, from initial planning and inception to the date of the **directive** canceling the outage; (b) subsequent to the date of the **directive** cancelling the outage and in accordance with **good electric industry practice**;

Consolidated Authoritative Document Glossary

Term	Definition
	(c) for re-scheduling personnel, equipment and other materials required for the performance of the work originally to be completed or performed pursuant to the cancelled outage; (d) in the form of verified damages or liquidated claims dollar amounts or claimed by third parties pursuant or related to: (A) any third-party contract terms and conditions for performing repair, retrofit, upgrade or maintenance work on or directly related to the **source asset** during the outage, which third party work has been cancelled or otherwise cannot be performed due to the outage cancellation; and (B) any third-party market or hedging transactions directly related to participation in the energy or ancillary services market by the **source asset** which is the subject of the directive; and (e) as other related reasonable costs.
	[Rules (2024-04-01)]
"inflexible block"	means an **operating block** in an energy **offer** for which the **ISO** may issue a **dispatch** for only the full amount of MW in the **operating block**.
	[Rules (2013-01-08)]
"interactive remote access"	means user-initiated access by a person employing a remote access client or other remote access technology using a routable protocol. Remote access originates from a **cyber asset** that is not an **intermediate system** and not located within any of the Responsible Entity's **electronic security perimeter**(s) or at a defined **electronic access point**. Remote access may be initiated from: 1) **cyber assets** used or owned by the Responsible Entity, 2) **cyber assets** used or owned by employees, and 3) **cyber assets** used or owned by vendors, contractors, or consultants. Interactive **remote access** does not include system-to-system process communications. Note: the "Responsible Entity" referred to in this definition is identified in the applicability section of each Version 5 CIP Cyber Security **reliability standard**.
	[Alberta Reliability Standards (2017-10-01)]
"interchange"	means energy transfers that cross **balancing authority** boundaries.
	[Alberta Reliability Standards (2010-01-22)]
"interchange authority"	means the responsible entity that authorizes implementation of valid and balanced **interchange schedules** between **balancing authority areas**, and ensures communication of **interchange** information for **reliability** assessment purposes.
	[Alberta Reliability Standards (2010-01-22)]
"interchange schedule"	means, for a given **settlement interval**, the planned interchange of electricity between the **ISO** and an **adjacent balancing authority** which results from the validation and scheduling of **interchange transactions**.
	[Rules (2012-01-31)]
"interchange schedule"	means, for a given **settlement interval**, the planned **interchange** of energy between the **ISO** and an **adjacent balancing authority** which results from the validation and scheduling of **interchange transactions**.
	[Alberta Reliability Standards (2014-10-01)]
"interchange transaction"	means an energy or **ancillary services** transaction that crosses one or more **balancing authority area** boundaries.
	[Rules (2010-04-30), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"interconnected electric system"	as defined in the **Act** means all **transmission facilities** and all **electric distribution systems** in Alberta that are interconnected, but does not include an **electric distribution system** or a **transmission facility** within the service area of the City of Medicine Hat or a subsidiary of the City, unless the City passes a bylaw that is approved by the Lieutenant Governor in Council under section 138 of the **Act**.
	[Rules (2010-12-01), Alberta Reliability Standards (2011-12-31), Tariff (2011-07-01)]
"interconnected transmission operator "	means the entity outside of Alberta responsible for the reliability of its “local” transmission system, and that operates or directs the operations of the transmission facilities.
	[Alberta Reliability Standards (2010-01-22)]
"interconnection"	means the electrical connection of the **AIES** with any electric system in a jurisdiction bordering Alberta.
	[Rules (2003-06-01)]
"interconnection"	means the electrical connection of the **interconnected electric system** with any electric system in a jurisdiction bordering Alberta and when capitalized, it means any one (1) of the three (3) major electric system networks in North America: Eastern, Western, and ERCOT.
	[Alberta Reliability Standards (2014-10-01)]
"interconnection reliability operating limit Tv"	means the maximum time that an **interconnection reliability operating limit** can be violated before the risk to the **interconnection** or other **reliability coordinator area(s)** becomes greater than acceptable. Each **interconnection reliability operating limit Tv** must be less than or equal to thirty (30) minutes.
	[Alberta Reliability Standards (2015-09-01)]
"interconnection reliability operating limits"	means a **system operating limit**, that if violated, could lead to instability, uncontrolled separation or **cascading** outages that adversely impact the **reliability** of the **bulk electric system**.
	[Alberta Reliability Standards (2014-10-01)]
"intermediate system"	means a **cyber asset** or collection of **cyber assets** performing access control to restrict **interactive remote access** to only authorized users. The **intermediate system** must not be located inside the **electronic security perimeter**.
	[Alberta Reliability Standards (2017-10-01)]
"interruptible demand"	means the **demand** that a load **market participant** makes available to the **ISO** via contract or agreement for curtailment.
	[Alberta Reliability Standards (2014-10-01)]
"interruption"	means any action causing partial or full curtailment of electrical power flow.
	[Rules (2003-06-01)]
"intertie"	as defined in the *Transmission Regulation* means a **transmission facility**, including its associated components, that links one or more electric systems outside Alberta to one or more points on the **interconnected electric system**.
	[Rules (2009-05-28), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
“initial start-up time”	means the time required for a **source asset** to synchronize to the **interconnected electric system** from an offline state.
	[Rules (2024-06-21)]
"ISO"	means the Independent System Operator as defined in the **Act** being the corporation established by section 7 of the **Act**.
	[Rules (2010-12-01), Alberta Reliability Standards (2011-12-31), Tariff (2011-07-01)]
"ISO fees"	as defined in the **Act** means the fees established by the **ISO** pursuant to the **Act**.

Consolidated Authoritative Document Glossary

Term	Definition
	[Rules (2009-12-16)]
"ISO manual"	means a document that prescribes inputs or processes subject to Section 103.16 of the **ISO rules**, *ISO Manual Consultation Procedures*, applicable to a **market participant** or the **ISO** in accordance with the **ISO rules**.
	[REM ISO Rules (2026-03-12]
"ISO rules"	as defined in the **Act** means the rules made by the Independent System Operator under section 19 and 20 of the **Act**.
	[Rules (2010-12-01), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
"ISO rules"	as defined in the **Act** means the rules made by the **ISO** under section 19 and 20 or the regulations, and includes the **REM ISO rules** established by the Minister under section 20.01.
	[REM ISO Rules (2026-03-12]
"ISO tariff"	as defined in the **Act** means the tariff prepared by the **ISO** under section 30 of the **Act** that has been approved by the **Commission**.
	[Rules (2010-04-30), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
"legal owner"	means the **person** who owns electric industry property including any one (1) or more of: (i) a **generating unit**; (ii) an **aggregated generating facility**; (iii) a **transmission facility**; (iv) an **electric distribution system**; (v) an industrial system that has been designated as such by the **Commission**; and (vi) a load facility with **system access service** under subsection 101(2) of the **Act**.
	[Alberta Reliability Standards (2014-10-01)]
"legal owner"	means the **person** who owns electric industry property including any one or more of: (i) a **generating unit**; (ii) an **energy storage resource**; (iii) an **aggregated facility**; (iv) a **transmission facility**; (v) an **electric distribution system**; (vi) an industrial system that has been designated as such by the **Commission**; and (vii) a load facility with **system access service** under subsection 101(2) of the **Act**.
	[Rules (2024-04-01)]
"legal owner"	means the **person** who owns electric industry property including any one or more of: (i) a **generating unit**; (ii) an **aggregated generating facility**; (iii) a **transmission facility**; (iv) an **electric distribution system**; (v) an industrial system that has been designated as such by the **Commission**; and (vi) a load facility with **system access service** under subsection 101(2) of the **Act**.
	[Tariff (2021-01-01)]
"Load Shed Service"	replaced with new definition "**fast frequency response service**"

Consolidated Authoritative Document Glossary

Term	Definition
	[Rules (2024-05-31)]
"long lead time asset"	means a **source asset,** excluding an import asset, that: (i) requires more than one hour to synchronize to the system under normal operating conditions; or (ii) is synchronized but has varying start-up times for distinct portions of its MW and which requires more than one hour to deliver such additional portions of its MW; and which is not delivering all of its energy for reasons other than an outage.
	[Rules (2024-04-01)]
"long term adequacy (LTA)"	means the ability of future electric system energy supply to meet expected aggregate electrical demand requirements over several years.
	[Rules (2008-08-11)]
"loss factor"	means the value, in percent, which reasonably represents the contribution to **transmission system** losses, based on location, of a **generating unit**, **energy storage resource,** export service, import service, or other opportunity service, and which the **ISO** establishes in accordance with Section 501.10 of the **ISO rules**, *Transmission Loss Factors*.
	[Rules (2024-04-01)]
"loss factor"	means the value, in percent, which reasonably represents the contribution to **transmission system** losses, based on location, of a generating facility, export service, import service, or other opportunity service, and which the **ISO** establishes in accordance with section 501.10 of the **ISO** rules, *Transmission Loss Factors*.
	[Tariff (2021-01-01)]
"market participant"	means: (i) any **person** that supplies, stores, generates, transmits, distributes, trades, exchanges, purchases, or sells electricity, electric energy, electricity services, or **ancillary services**; or (ii) any broker, brokerage, or forward exchange that trades or facilitates the trading of electricity, electric energy, electricity services, or **ancillary services**.
	[Rules (2024-04-01)]
"market participant"	as defined in the **Act** means: (i) any **person** that supplies, generates, transmits, distributes, trades, exchanges, purchases or sells electricity, electric energy, electricity services or **ancillary services**; or (ii) any broker, brokerage or forward exchange that trades or facilitates the trading of electricity, electric energy, electricity services or **ancillary services**.
	[Alberta Reliability Standards (2011-12-31)]
"market participant"	means (a) an electricity market participant, as defined in the **Act**, being: (i) any **person** that supplies, generates, transmits, distributes, trades, exchanges, purchases or sells electricity, electric energy, electricity services or **ancillary services**, or (ii) any broker, brokerage or forward exchange that trades or facilitates the trading of electricity, electric energy, electricity services or **ancillary services**; and (b) a **person** who has applied for **system access service** from the **ISO**
	[Tariff (2021-01-01)]
"market participant"	as defined in the **Act** means:

Consolidated Authoritative Document Glossary

Term	Definition
	(i) a **person** who supplies, generates, transmits, distributes, stores, discharges, trades, **exchanges**, purchases, or sells electricity or electricity services; or (ii) a broker, brokerage, forward exchange or other entity that trades, facilitates the trading of, or participates in an electricity market, but does not include the **ISO**.
	[REM ISO Rules (2026-03-12]
"Market Surveillance Administrator"	as defined in the **Act** means the corporation continued by section 32 of the *Alberta Utilities Commission Act.*
	[Rules (2010-04-30)]
"material adverse change"	means a downgrade in the credit rating of a **market participant** by any credit rating agency, or an event that may result in the materially weaker creditworthiness of a **market participant** as reasonably determined by the **ISO**.
	[Rules (2010-04-30)]
"material adverse change"	means a downgrade in the credit rating of a **market participant** or its guarantor by any credit rating agency, or an event that may result in the materially weaker creditworthiness of a **market participant** or its guarantor as reasonably determined by the **legal owner** of a **transmission facility**.
	[Tariff (2021-01-01)]
"maximum authorized charging power"	means: (i) for an **aggregated facility** containing an **energy storage resource**, the sum of the maximum **gross real power** that the **ISO** authorizes the **aggregated facility** to receive from the **interconnected electric system,** as measured at the **collector bus** of the **aggregated facility**; (ii) for a synchronous **energy storage resource**, the maximum **gross real power** that that the **ISO** has authorizes the **energy storage resource** to receive from the **interconnected electric system**, as measured at the stator winding terminal of the **energy storage resource**.
	[Rules (2024-04-01)]
"maximum authorized real power"	means: (i) for an **aggregated generating facility** with one or more **collector busses**, the sum of the maximum **gross real power** that the **ISO** has authorized the **generating units** to deliver to those **collector busses**; (ii) for an **aggregated generating facility** without a **collector bus**, the maximum **gross real power** that the **ISO** has authorized each **generating unit** to deliver to its generator terminal; or (iii) for a **generating unit** that is not part of an **aggregated generating facility**, the maximum **gross real power** that the **ISO** authorizes the **generating unit** to deliver to its generator terminal.
	[Alberta Reliability Standards (2011-12-31)]
"maximum authorized real power"	means: (i) for an **aggregated facility**, the sum of the maximum **gross real power** that may be delivered to the **collector buses** of the **aggregated facility**; (ii) for a **generating unit** or synchronous **energy storage resource**, the maximum **gross real power** that may be delivered to the stator winding terminal of the **generating unit** or **energy storage resource**.
	[Rules (2024-04-01)]
"maximum capability"	means: (i) for a **pool asset**, the maximum quantity expressed in MW, that it is physically capable of providing under optimal operating conditions while complying with all applicable **ISO rules** and terms and conditions of the **ISO tariff**

Consolidated Authoritative Document Glossary

Term	Definition
	(ii) for a **source asset** that is an import asset, the **available capability**.
	[Rules (2024-04-01)]
"maximum capability"	means: (i) for a **generating unit** or **aggregated generating facility**, the maximum MW that it is physically capable of providing under optimal operating conditions while complying with all applicable **ISO rules** and terms and conditions of the **ISO tariff**; or (ii) for a **source asset** that is an import asset, the **available capability**.
	[Tariff (2015-07-01)]
"maximum run up time"	means the time required for a **source asset** to reach **minimum stable generation** from the point that it is synchronized to the **interconnected electric system**.
	[Rules (2024-06-21)]
"measurement point"	means a **metering point**, of the sum of multiple **metering points**, as defined in the **measurement point definition record**.
	[Rules (2021-03-18]
"measurement point definition record"	means a specification that defines the physical arrangement of a **revenue metering system** as well as any algorithms used to adjust the interval data associated with a **metering point** to produce the interval data used for financial settlement with the **ISO**.
	[Rules (2021-03-18]
"merit order"	means: (i) for the energy market, the **dispatch down service** market or **load shed service** for imports, a list of **operating blocks** sorted by price; or (ii) for standby **operating reserves**, a list of procured volumes sorted by price.
	[Rules (2013-01-08)]
"meter"	means the apparatus which measures active energy, reactive power or both, including any internal recorder, or clock, which is normally tested as part of the apparatus.
	[Tariff (2021-01-01)]
"meter"	means the apparatus which measures active energy, **reactive power** or both, including any internal recorder, or clock, which is normally tested as part of the apparatus.
	[Alberta Reliability Standards (2014-10-01)]
"metered demand"	means the rate, in MW, at which electric energy is transferred to or from the transmission system, as measured by the relevant **metering equipment** and averaged over a 15-minute or other interval as deemed necessary by the **ISO**.
	[Rules (2021-03-18)]
"metered demand"	means the rate at which electric energy is delivered to a **point of delivery** or from a **point of supply**, in MW, measured by the relevant **metering equipment** and averaged over a 15-minute or other interval as deemed necessary by the **ISO**.
	[Tariff (2011-07-01)]
"metered energy"	means the quantity of electric energy, in MWh, measured by the relevant **metering equipment** during a particular period of time.
	[Rules (2021-03-18)]
"metered energy"	means the quantity of electric energy transferred to a **point of delivery** or from a **point of supply**, in MWh, measured by the relevant **metering equipment** during a particular period of time.
	[Tariff (2015-07-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"metering equipment"	means all measurement transformers, meters, recorders, remote communication equipment and associated wiring required for the measurement and, if applicable, remote storage of the active energy and reactive energy interval data for a single metering point.
	[Rules (2021-03-18)]
"metering equipment"	as defined in the *AESO Measurement System Standard* means all measurement transformers, meters, recorders, remote communication equipment and associated wiring required for the measurement and, if applicable, remote storage of the active energy and reactive energy interval data for a single metering point.
	[Tariff (2011-07-01)]
"metering point"	means, for the purpose of financial settlement with the **ISO**, either: (a) a real location where active energy or reactive energy are physically measured; or (b) a virtual location where active energy or reactive energy are deemed to have been measured from an algorithmical adjustment of the active energy or reactive energy interval data of a reallocation.
	[Rules (2021-03-18]
"minimum off time"	means the minimum amount of time after disconnecting from the **interconnected electric system** required by a **source asset** to be offline before the **source asset** can be re-synchronized to the **interconnected electric system**.
	[Rules (2024-06-21)]
"minimum on time"	means the minimum amount of time after synchronization to the **interconnected electric system** required by a **source asset** to be online before the **source asset** can be dispatched off.
	[Rules (2024-06-21)]
"minimum stable generation"	means: (i) the greater of the minimum generation level, in MW, that a **source asset** can be continuously operated at without: (a) becoming unstable; or (b) violating environmental permits; or (ii) in the case of a **source asset** that is integral to onsite industrial processes offering gross generation onto the **interconnected electric system**, the greater of: (a) the generation level set out in subsection (i); (b) the generation level the **operator** anticipates the **source asset** is required to operate at in order to avoid either: (A) a forced shut down of the onsite industrial processes; or (B) a reduction of onsite industrial processes where the reduction results in any increase in net-to-grid generation; or (c) the generation level the **operator** anticipates the **source asset** can operate at to produce net-to-grid generation of zero(0); or (iii) in the case of a **source asset** that is integral to onsite industrial processes offering net generation onto the **interconnected electric system**, the generation level the **operator** anticipates the **source asset** is required to operate at in order to avoid either: (a) a forced shut down of the onsite industrial processes; or (b) a reduction of onsite industrial processes where the reduction results in any increase in net-to-grid generation.
	[Rules (2012-03-28)]

Consolidated Authoritative Document Glossary

Term	Definition
"misoperation"	means any one of the following: • any failure of a **protection system** element to operate within the specified time when a fault or abnormal condition occurs within a zone of protection. • any operation for a fault not within a zone of protection, except an operation as backup protection for a fault in an adjacent zone that is not cleared within a specified time for the protection for that zone. • any unintentional **protection system** operation when no fault or other abnormal condition has occurred unrelated to on-site maintenance and testing activity.
	[Rules (2016-08-30), Alberta Reliability Standards (2010-01-22)]
"month"	means a calendar month.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01), Tariff (2015-07-01)]
"mothball outage"	means a deliberate reduction equal to or greater than 5 MW in the **available capability** of a **source asset** expected in anticipation of and to avoid market conditions that would render the **source asset** uneconomic to produce energy.
	[Rules (2024-04-01)]
"needs approval"	means an approval required for a need to expand or enhance the capability of the **transmission system** under section 34 of the **Act**.
	[Tariff (2023-07-20)]
"needs identification document"	means the document referred to in section (34)(1) of the **Act**.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
"needs identification document estimate"	means an *Association of the Advancement of Cost Engineering Practices* Class 4 **cost estimate**, which is a **cost estimate** in an **accuracy range** between -15 to -30% and +20 to +50%, as directed by the **ISO**.
	[Rules (2016-04-29)]
"NERC"	means the North American Electric Reliability Corporation.
	[Rules (2008-11-13), Alberta Reliability Standards (2014-10-01)]
"net actual interchange"	means the sum of all metered **interchange** over all **interconnections** between the **balancing authority areas** of two (2) **adjacent balancing authorities**.
	[Alberta Reliability Standards (2014-10-01)]
"net energy for load"	means net **balancing authority area** generation, plus energy received from other **balancing authority areas**, less energy delivered to **balancing authority areas** through **interchange**; it includes **balancing authority area** losses but excludes energy required for storage at energy storage facilities.
	[Alberta Reliability Standards (2010-01-22)]
"net interchange schedule"	means the sum of all **interchange schedules** with each **adjacent balancing authority**.
	[Alberta Reliability Standards (2014-10-01)]
"net scheduled interchange or **NSI"**	means the algebraic sum of all **interchange schedules** across a given path or between **balancing authorities** for a given period or instant in time.
	[Alberta Reliability Standards (2010-01-22)]
"net settlement instruction"	means an electronic instruction: (i) to the **ISO** from two (2) counterparty **pool participants**; and (ii) containing transactional information including volumes, start and end times, and applicable **pool assets**, which enables the **ISO** to perform netting of **metered energy** for purposes of calculating **power pool** settlements.
	[Rules (2011-07-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"non-controllable"	means a **pool asset** is not able to increase energy production or consumption to meet a **dispatch** quantity or **directive** quantity under normal operating conditions in all solar or wind conditions.
	[Rules (2024-04-01) [
"normal clearing"	means that a **protection system** operates as designed and the fault is cleared in the time normally expected with proper functioning of the installed **protection systems**.
	[Rules (2016-04-25), Alberta Reliability Standards (2010-01-22)]
"normal rating"	means, as determined by the **legal owner** of the equipment or facility, the **equipment rating** or the **facility rating** that the equipment or facility can sustain on a continuous basis.
	[Rules (2016-08-15)] [Alberta Reliability Standards (2019-01-01)]
"off peak"	means those periods of time which are not **on peak.**
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)]
"offer"	means, in respect of a **pool asset** in a **settlement interval**, a **pool participant** submission to sell: (i) electric energy or **dispatch down service** and includes all of the **operating blocks** the **pool participant** uses for that submission; or (ii) **operating reserves** to applicable Alberta markets.
	[Rules (2012-12-03), Alberta Reliability Standards (2014-10-01)]
"offer control information"	means the identity of any **market participant** who has ultimate control and determination of the price and quantity of **offers** or **bids** as applicable.
	[Rules (2012-12-03)]
"on peak"	means the periods: (i) from 07:00:00 to 22:59:59 inclusive, Alberta Time in Alberta; or (ii) when dealing with **inadvertent interchange**, that NERC defines, with Saskatchewan being treated the same as the **western interconnection**.
	[Rules (2026-11-01)]
"on peak"	means the time: (i) from 07:00 to 23:00 inclusive, Alberta Time in Alberta; or (ii) when dealing with **inadvertent interchange**, that NERC defines with Saskatchewan being treated the same as the **western interconnection**.
	[Alberta Reliability Standards (2026-11-01)]
"operating block"	means any one (1) of the seven (7) price and quantity pairs the **ISO** allocates to a **pool asset** within a **settlement interval** for the purposes of submitting **bids** and **offers**.
	[Rules (2013-01-08)]
"operating reserve"	means the **real power** capability above system **demand** required to provide for regulation, **forced outages** and **unplanned outages**.
	[Rules (2014-12-23)]
"operating reserve"	means the capability above system **demand** required to provide for **regulation**, load forecasting errors, equipment forced and scheduled outages and local area protection. It consists of **spinning reserve** and **non-spinning reserve**.
	[Tariff (2021-01-01)]
"operating reserves"	means the capability above system demand required to provide for **regulation**, load forecasting errors, equipment outages, and local area protection.
	[Alberta Reliability Standards (2019-07-01)]
"operating transfer capability (OTC)"	means the maximum amount of actual power that can be transferred over direct or parallel transmission elements comprising an **interconnection** from one **balancing authority** to another **balancing authority**, and as further defined by the **WECC**.

Consolidated Authoritative Document Glossary

Term	Definition
	[Rules (2009-05-28)]
"operating week"	means the period from 00:00 Saturday to 24:00 Friday.
	[Rules (2004-10-14)]
"operational deviation"	means a circumstance where: (i) a **source asset**, excluding an import asset, is unable to comply with the requirements set out in subsection 4 of Section 203.4 of the **ISO rules**, *Delivery Requirements for Energy*; or (ii) a **source asset**, excluding an import asset, operating in **generating asset steady state** varies outside its **allowable dispatch variance**, due to **force majeure** or any other circumstances related to the operation of the **source asset**, which could reasonably be expected to affect the **available capability** or safety of the ,**source asset**, third party facilities, contracts or arrangements, the environment, personnel working at the **source asset** or the public.
	[Rules (2024-04-01)]
"operations support personnel"	means individuals who perform current day or next day outage coordination or assessments, or who determine **system operating limits**, **interconnection reliability operating limits**, or operating nomograms, in direct support of **real time** operations of the **bulk electric system**.
	[Alberta Reliability Standards (2018-04-01)]
"operator"	means a person given express authority by a **legal owner** to operate on the **legal owner**'s behalf any one or more of its electric industry properties, including: (i) a **generating unit**; (ii) an **aggregated facility**; (iii) an **energy storage resource**; (iv) a **transmission facility**; (v) an **electric distribution system**; (vi) an industrial system that has been designated as such by the **Commission**; and (vii) a load facility with **system access service** under subsection 101(2) of the **Act**; and includes the **legal owner**, if no such other **person** has been so authorized.
	[Rules (2024-04-01)]
"operator"	means a **person** given expressed authority by a **legal owner** to operate on the **legal owner**'s behalf any one (1) or more of its electric industry properties, including: (i) a **generating unit**; (ii) an **aggregated generating facility**; (iii) a **transmission facility**; (iv) an **electric distribution system**; (v) an industrial system that has been designated as such by the **Commission**; and (vi) a load facility with **system access service** under subsection 101(2) of the **Act**; and includes the **legal owner**, if no such other **person** has been so authorized.
	[Alberta Reliability Standards (2014-10-01)]
"original budget"	means a document setting out the allocation of resources against which cost performance will be measured and assessed.
	[Rules (2016-04-29)]
"partially-controllable"	means a **pool asset** that contains one or more **controllable** resources and one or more **non-controllable** resources.

Consolidated Authoritative Document Glossary

Term	Definition
	[Rules (2024-04-01)]
"Path 1"	means the Alberta – British Columbia transfer path as identified by **WECC** in the document "Major WECC Transfer Paths in the Bulk Electric System".
	[Alberta Reliability Standards (2010-01-22)]
"person"	as defined in the **Act** includes an individual, unincorporated entity, partnership, association, corporation, trustee, executor, administrator or legal representative.
	[Rules (2010-09-07), Alberta Reliability Standards (2014-10-01), Tariff (2011-07-01)]
"physical access control systems"	means **cyber assets** that control, alert, or log access to the **physical security perimeter**(s), exclusive of locally mounted hardware or devices at the **physical security perimeter** such as motion sensors, electronic lock control mechanisms, and badge readers.
	[Alberta Reliability Standards (2017-10-01)]
"physical capacity"	means the maximum amount of electric power that a **transmission facility** is rated by its **legal owner** to be able to transmit without suffering damage.
	[Tariff (2021-01-01)]
"physical security perimeter"	means the physical border surrounding locations in which **BES cyber assets**, **BES cyber systems**, or **electronic access control or monitoring systems** reside, and for which access is controlled.
	[Alberta Reliability Standards (2017-10-01)]
"planned outage"	means the full or partial unavailability of a facility which is anticipated as part of a **legal owner**'s regular maintenance, including for the purposes of construction, **commissioning** or testing, and occurs as a result of a deliberate manual action.
	[Rules (2016-06-07)]
"planned outage"	means the unavailability of a facility which is anticipated as part of a **legal owner**'s regular maintenance and occurs as a result of a deliberate, manual action.
	[Alberta Reliability Standards (2014-10-01)]
"planned outage"	means the full or partial unavailability of a facility which is anticipated as part of a **legal owner**'s regular maintenance, including for the purposes of construction, **commissioning** or testing, and occurs as a result of a deliberate, manual action.
	[Tariff (2021-01-01)]
"planning authority"	means the entity that is registered with **NERC** and as defined under the **NERC** functional model.
	[Alberta Reliability Standards (2015-09-01)]
"point of common coupling"	means a point on the **transmission system** that is owned by a **legal owner** of a **transmission facility** and that is, or could be, connected to one or more facilities which may be any combination of load facilities, **generating units**, **aggregated generating facilities** or **energy storage facilities**.
	[Alberta reliability standards (2019-10-25)]
"point of connection"	means a point at which electric energy is transferred between a **transmission facility** that is not an industrial system, and (i) the high voltage side of any **aggregated facility**, **energy storage resource**, or **generating unit**; (ii) an **electric distribution system**; (iii) an industrial system that the **Commission** designates; or (iv) a load facility with **system access service** under subsection 101(2) of the **Act**.
	[Rules (2024-04-01]

Consolidated Authoritative Document Glossary

Term	Definition
"point of connection"	means a point at which electric energy is transferred between a **transmission facility** that is not an industrial system, and (i) the high voltage side of any **aggregated generating facilities** or **generating unit**; (ii) an **electric distribution system**; (iii) an industrial system that has been designated as such by the **Commission**; or (iv) a load facility with **system access service** under subsection 101(2) of the **Act**.
	[Alberta Reliability Standards (2014-10-01)]
"point of delivery"	means the point at which electricity is transferred from **transmission facilities** to facilities owned by a **market participant** receiving **system access service** under the **ISO tariff**, including an **electric distribution system**.
	[Tariff (2011-07-01), Rules (2010-04-30)]
"point of interconnection"	means the point at which electricity is transferred between the **interconnected electric system** and a neighbouring jurisdiction and where the electricity so transferred is measured.
	[Rules (2010-04-30), Tariff (2011-07-01)]
"point of supply"	means the point at which electric energy is transferred to a **transmission facility** from a facility owned by a **market participant** receiving **system access service** under the **ISO tariff** including a **generating unit**, **aggregated facility, energy storage resource,** or **electric distribution system**.
	[Rules (2024-04-01)]
"point of supply"	means the point at which electricity is transferred to **transmission facilities** from facilities owned by a **market participant** receiving **system access service** under the **ISO tariff**, including a **generating unit**, an **aggregated generating facility** or an **electric distribution system**.
	[Tariff (2015-07-01)]
"pool asset"	means either one or more of a **source asset** or a **sink asset** registered to a **pool participan**t and identified by a single **pool ID** the **ISO** assigns.
	[Rules (2024-04-01)]
"pool ID"	means a unique identifier the **ISO** assigns to a **pool asset** for the primary purpose of enabling a **pool participant** to enter into transactions in the **power pool**.
	[Rules (2011-07-01)]
"pool participant"	means a **market participant** who is registered to transact, listed in the **pool participant** list.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)]
"pool price"	as defined in the **Act** means the price for each hour, in $/**MWh**, established and reported by the **ISO**, in accordance with the **ISO rules**, for electric energy exchanged through the **power pool**.
	[Rules (2013-01-08), Alberta Reliability Standards (2010-12-01)]
"pool price"	as defined in the **Act** means the pool price established by the **ISO** under section 18(4) of the **Act**.
	[Tariff (2021-01-01)]
"post permit and license estimate"	means an *Association for the Advancement of Cost Engineering Practices* Class 2 **cost estimate**, which is a **cost estimate** in an **accuracy range** between -5 to -15% and +5 to +20%.
	[Rules (2016-04-29)]
"power factor"	means the ratio of **real power** to **apparent power**.
	[Rules (2010-07-23), Alberta Reliability Standards (2011-12-31), Tariff (2021-01-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"power pool"	as defined in the **Act** means the scheme operated by the **ISO** for (i) exchanges of electric energy, and (ii) financial settlement for the exchange of electric energy.
	[Rules (2009-12-16)]
"power pool"	as defined in the **Act** means the scheme operated by the **ISO** for: (i) exchange of electric energy; and (ii) financial settlement for the exchange of electric energy.
	[Tariff (2021-01-01)]
"power purchase arrangement"	as defined in the **Act** means a **power purchase arrangement** included in Alberta Regulation AR 175/2000, being the *Power Purchase Arrangements Determination Regulation*, but does not include: (i) the **power purchase arrangement** that applies to the H.R. Milner **generating unit**; (ii) the **power purchase arrangement** that applies to the Sturgeon **generating units**; (iii) a **power purchase arrangement** that expires in accordance with the unit effective term completion date specified in the **power purchase arrangement**; (iv) a **power purchase arrangement** that is terminated under section 15.2 of the **power purchase arrangement**; (v) a **power purchase arrangement** that is terminated by the balancing pool.
	[Tariff (2021-01-01)]
"primary inadvertent interchange"	means the component of **inadvertent interchange** caused by the regulating deficiencies of the **balancing authority area**.
	[Alberta Reliability Standards (2016-12-19)]
"Project"	means the project generally described as any one of the following: (i) the means or manner by which a constraint or condition affecting the operation or performance transmission system could be alleviated as identified in a **NID** approved by the **EUB** pursuant to s. 34(3) of the **Act**; (ii) the request for system access service pursuant to s. 5(5)(b) of the **TR**; (iii) all the transmission facility proposals referred to in s. 35(1)(a) of the **Act** with respect to a specific approved NID; or (iv) the “transmission line”, as defined in the **HEEA**, which has been approved by the **EUB** pursuant to the **HEEA.**
	[Rules (2008-08-11)]
"Project Change Proposal"	means a document to be completed substantially in the form of the **"Project Change Authorization Form"** posted by the **ISO** on its website.
	[Rules (2005-08-25)]
"Project Energization"	means the date on which a **project,** including a **project** that is energized in stages, is fully energized and operational, as specified in an **energization certificate** or **energization** checklist of the **ISO**.
	[Rules (2005-12-01)]
"Project Material"	means with respect to a **Project**, all equipment, material and construction, installation, testing and commissioning services required for the construction of the **Project** and provided by a third party, but excluding any engineering services;
	[Rules (2005-08-25)]
"Project Progress Report "	means a document to be completed substantially in the form of the "Monthly Project Progress Report" posted by the **ISO** on its website.
	[Rules (2005-08-25)]

Consolidated Authoritative Document Glossary

Term	Definition
"protected cyber assets"	means one or more **cyber assets** connected using a routable protocol within or on an **electronic security perimeter** that is not part of the highest impact **BES cyber system** within the same **electronic security perimeter**. The impact rating of **protected cyber assets** is equal to the highest rated **BES cyber system** in the same **electronic security perimeter**. A **cyber asset** is not a **protected cyber asset** if, for 30 consecutive **days** or less, it is connected either to a **cyber asset** within the **electronic security perimeter** or to the network within the **electronic security perimeter**, and it is used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.
	[Alberta Reliability Standards (2017-10-01)]
"protection system"	means an arrangement of equipment designed to do one or both of protect equipment and maintain the reliable operation of the **interconnected electric system** including: (i) protective relays which respond to electrical quantities; (ii) communications systems necessary for correct operation of protective functions; (iii) voltage-sensing and current-sensing devices providing inputs to protective relays; (iv) station direct current supply associated with protective functions including station batteries, battery chargers and non-battery-based direct current supply; and (v) control circuitry associated with protective functions through the trip coils of the circuit breakers or other interrupting devices.
	[Rules (2012-12-31), Alberta Reliability Standards (2014-10-01)]
"Quarterly Projects Report"	means a document to be prepared by the **ISO** substantially in the form of the "Quarterly Projects Report" posted by the **ISO** on its website.
	[Rules (2005-08-25)]
"radial circuit"	means an arrangement of contiguous **system elements** energized at 50 kV or higher that: (a) extend from a **system element** on the networked **transmission system** in a linear or branching configuration; (b) connect to one or more of a load facility, a **generating unit**, or an **aggregated generating facility**; and (c) comprise the only circuit by which power can flow between the networked **transmission system** and the facilities identified in item (b) under normal operating conditions, and includes an arrangement where the circuit energized at 50 kV or higher is connected to another circuit energized at 50 kV or higher, either through a switching device that is operated normally open or through facilities energized at less than 50 kV where the circuit would be a **radial circuit** if the connection did not exist.
	[Alberta Reliability Standards (2020-08-06), Tariff (2023-07-20)]
"ramp rate"	means the rate at which a **pool asset** is able to change its level of production, in MW per minute, in response to a **dispatch** or **directive**.
	[Rules (2013-01-08)]
"reactive power"	means the power, in MVAr, developed when there are inductive, capacitive or nonlinear elements in an alternating current power system and is calculated as the vector difference between **apparent power** and **real power**.
	[Rules (2010-07-23), Alberta Reliability Standards (2011-12-31)]

Consolidated Authoritative Document Glossary

Term	Definition
"real power"	means the power, in MW, which does useful work and is developed when there are resistive elements in an electric power system.
	[Rules (2010-07-23), Alberta Reliability Standards (2011-12-31), Tariff (2021-01-01)]
"reference generating unit"	means a hypothetical **generating unit** possessing the operating variables and values listed in the Schedule of the *Market Power Mitigation Regulation*, Alberta Regulation 43/2024 with a monthly cumulative settlement interval net revenue and annualized unavoidable costs, as defined in the *Market Power Mitigation Regulation*.
	[Rules (2024-07-01)]
"regulating reserve"	means the component of **operating reserve**: (i) responsive to **automatic generation control**; and (ii) **frequency responsive**; that is sufficient to provide normal regulating margin.
	[Rules (2014-12-23) Alberta Reliability Standards (2019-07-01)]
"regulating reserve resource"	means a single device or single system that is eligible to provide **regulating reserves** pursuant to subsection 3(1) of Section 205.4 of the ISO Rules, *Regulating Reserve Technical Requirements and Performance Standards*, and that can, in any combination, deliver or receive electric energy from the **interconnected electric system**.
	[Rules (2018-02-01)]
"reliability"	means the combination of **adequacy** and **system security**.
	[Rules (2004-08-04), Alberta Reliability Standards (2014-10-01), Tariff (2015-07-01)]
"reliability coordinator"	means the entity that is registered with **NERC** and as defined under the **NERC** functional model.
	[Alberta Reliability Standards (2015-07-08)]
"reliability coordinator area"	means the collection of generation, transmission, and loads within the boundaries of the a **reliability coordinator**. Its boundary coincides with one or more **balancing authority** areas.
	[Alberta Reliability Standards (2015-07-08)]
"reliability management system (RMS)"	means the contractual reliability management program implemented through the **WECC** Reliability Criteria Agreement, the **WECC** RMS Agreements and the Generator RMS Agreements.
	[Rules (2003-06-01)]
"reliability standards"	as defined in the *Transmission Regulation* means the reliability standards under section 19.
	[Rules (2008-08-11), Alberta Reliability Standards (2014-10-01)]
"REM ISO rules"	as defined in the **Act** means the rules established by the Minister under Section 20.01 of the **Act** for the operation of a **restructured energy market**.
	[REM ISO Rules (2026-03-12]
"remedial action scheme"	means a scheme designed to detect predetermined power system conditions and to automatically take corrective actions that may include, but are not limited to, adjusting or tripping generation (MW and MVar), tripping load, or reconfiguring a power system(s) in order to accomplish objectives such as: • maintaining stability of the **transmission system**; • maintaining acceptable **transmission system** voltages; • maintaining acceptable **transmission system** power flows; or • limiting the impact of **cascading** or extreme events. The following do not individually constitute a remedial action scheme: (a) a **protection system** installed for the purpose of detecting faults on **transmission facilities** and isolating the faulted facilities;

Term	Definition
	(b) a **protection system** for automatic **underfrequency load shedding** and automatic **undervoltage load shed** comprised of only distributed relays; (c) out-of-step tripping and power swing blocking schemes; (d) an automatic reclosing scheme; (e) a scheme applied on a facility for non-fault conditions, including, but not limited to: (i) generator loss-of-field; (ii) transformer top-oil temperature; (iii) overvoltage; or (iv) overload to protect the facility against damage by removing it from service; (f) a controller that switches or regulates one or more of the following: (i) series or shunt reactive devices, (ii) flexible alternating current transmission system devices, (iii) phase-shifting transformers, variable-frequency transformers, or (iv) tap-changing transformers and that is located at and monitors quantities solely at the same station as the facility being switched or regulated; (g) a flexible alternating current transmission controller that remotely switches static shunt reactive devices located at other stations to regulate the output of a single flexible alternating current transmission device; (h) a scheme or controller that remotely switches shunt reactors and shunt capacitors for voltage regulation that would otherwise be manually switched; (i) a scheme that automatically de-energizes a line for a non-fault operation when one end of the line is open; (j) a scheme that provides anti-islanding protection (e.g. protects load from the effects of being isolated with generation that may not be capable of maintaining acceptable frequency and voltage); (k) an automatic sequence that proceeds when manually initiated solely by a power system operator; (l) a temporary SCADA action scheme that may be implemented to facilitate construction of transmission projects to assist in system performance during temporary build stages; (m) modulation of high voltage direct current or flexible alternating current transmission via supplementary controls, such as angle damping or frequency damping applied to damp local or inter-area oscillations; (n) a sub-synchronous resonance protection scheme that directly detects subsynchronous quantities (e.g., currents or torsional oscillations); or (o) a generator control including, but not limited to: (i) automatic generation control; (ii) generation excitation (e.g. automatic voltage regulation and power system stabilizers); (iii) fast valving, and (iv) speed governing.
	[Rules (2016-09-09), Alberta Reliability Standards (2016-09-09), Tariff (2021-01-01)]
“removable media”	means storage media that (i) are not **cyber assets**, (ii) are capable of transferring executable code, (iii) can be used to store, copy, move, or access data, and (iv) are directly connected for 30 consecutive days or less to a **BES cyber asset**, a network within an **electronic security perimeter**, or a **protected cyber asset**.
	[Alberta Reliability Standards (2024-10-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"reportable cyber security incident"	means a **cyber security incident** that has compromised or disrupted one or more reliability tasks of a functional entity.
	[Alberta Reliability Standards (2017-10-01)]
"reportable disturbance"	means any loss of supply that causes an **area control error** change greater than or equal to eighty per cent (80%)of the **ISO**'s most severe single **contingency**
	[Alberta Reliability Standards (2012-10-01)]
"reporting area control error"	means the scan rate values of the **area control error** of a **balancing authority area** measured in MW and includes the difference between the **actual net interchange** of the **balancing authority area** and its **scheduled net interchange**, plus its **frequency bias setting** obligation, plus correction for any known meter error; and in the **western interconnection**, **reporting area control error** includes **automatic time error correction**.
	[Alberta Reliability Standards (2019-07-01)]
"reserve sharing group"	means a group whose members consist of two (2) or more **balancing authorities** that collectively maintain, allocate and supply **operating reserves** required for each **balancing authority**'s use in recovering from **contingencies** within the group.
	[Alberta Reliability Standards (2012-10-01)]
"restructured energy market"	as defined in the **Act** means the framework within which electricity markets operate, including the day-ahead market and the **real-time market**, as well as the procurement of **ancillary services** and the management of transmission constraints, whether through market-based or non-market mechanisms.
	[REM ISO Rules (2026-03-12]
"revenue meter"	means the interval meter and the associated apparatus that measures active energy or reactive energy at intervals defined by the **ISO** for the purpose of financial settlement with the **ISO**.
	[Rules (2021-03-18]
"revenue metering system"	means the **revenue meter** and the **metering equipment** for acquisition, processing, delivery and storage of the interval data that is used for financial settlement with the **ISO**.
	[Rules (2021-03-18]
"sabotage event"	means an occurrence or resulting circumstance that a responsible entity suspects or determines to have been deliberately caused, and results in, or could result in, adverse effects upon the function or operation of any of the following: (i) one (1) or more **generating units**; (ii) one (1) or more **transmission facilities**; (iii) one or more **electric distribution systems**; or (iv) the operational, telecommunication, or control devices associated with one (1) or more **generating units**, **transmission facilities**, or **electric distribution systems**.
	[Alberta Reliability Standards (2014-10-01)]
"scheduled net interchange"	means the algebraic sum of all scheduled MW transfers, including dynamic schedules, to and from all **adjacent balancing authorities** within the same **Interconnection**, including the effect of scheduled ramps.
	[Alberta Reliability Standards (2019-07-01)]
"scheduling path"	means the transmission service arrangements reserved by a **market participant** for an **interchange transaction**.
	[Alberta Reliability Standards (2010-01-22)]
"security-based misoperation"	means a **misoperation** caused by the incorrect operation of a **protection system** or **remedial action scheme**.

Consolidated Authoritative Document Glossary

Term	Definition
	[Alberta Reliability Standards (2014-10-01)]
"service area"	means any of the geographic areas determined by the **Commission** as the area of an electric distribution system pursuant to ss. 28 and 29 of the **HEEA**.
	[Rules (2008-11-13)]
"service proposal"	means a document that provides the scope of work, **cost estimates**, project schedule, assumptions and risks for a **transmission system** project or **system access service** project. The **service proposal** is to be completed in accordance with the "Service Proposal Guidelines" posted on the AESO website.
	[Rules (2016-04-29)]
"service proposal estimate"	means an *Association for the Advancement of Cost Engineering Practices* Class 3 **cost estimate**, which is a **cost estimate** in an **accuracy range** between -10 to -20% and +10 to +30%, as directed by the **ISO**.
	[Rules (2016-04-29)]
"settlement interval"	means a period beginning on the hour and ending sixty (60) minutes later and is the time increment for which: (i) the **ISO** financially settles energy amounts; and (ii) the load settlement system calculates distinct load estimates.
	[Rules (2011-07-01)]
"settlement period"	means the period starting on the first day of each calendar month at 00:00 hours and ending on the last day of the same calendar month at 24:00 hours.
	[Tariff (2011-07-01), Rules (2010-04-30)]
"sink asset"	is a **pool asset** that consumes or exports electricity from the **interconnected electric system**.
	[Rules (2024-04-01)]
"source asset"	is a **pool asset** that produces or delivers electric energy to the **interconnected electric system**.
	[Rules (2024-04-01)]
"spinning reserve"	means **contingency reserve** that is immediately and automatically responsive to frequency deviations through the action of a **governor** or other control system.
	[Rules (2014-12-23)], [Alberta Reliability Standards (2015-07-20)]
"spinning reserve resource"	means a single device or single system that is eligible to provide **spinning reserves** pursuant to subsection 3(1) of Section 205.5 of the ISO Rules, *Spinning Reserve Technical Requirements and Performance Standards*, and that can, in any combination, deliver or receive electric energy from the **interconnected electric system**.
	[Rules (2018-02-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"substation fraction"	means: (i) for a **market participant** that is not the **legal owner** of an **electric distribution system**, the share of a substation's capacity attributable to a **market participant** under Rate DTS or Rate STS, calculated by dividing the **contract capacity** of the individual **system access service** at a substation by the sum of all **contract capacities** of all **system access services** provided at the same substation under Rate DTS and Rate STS; and (ii) for a **market participant** that is the **legal owner** of an **electric distribution system**, (a) for **system access service** provided at a substation to the **market participant** under Rate DTS, (1) where the **market participant** is the only **market participant** receiving **system access service** at the substation, one (1); or (2) where more than one **market participant** receives **system access service** at the substation, the sum of the **market participant's contract capacities** of **system access services** provided under Rate DTS and Rate STS divided by the sum of all **contract capacities** of all **system access services** provided at the same substation under Rate DTS and Rate STS; and (b) for **system access service** provided at a substation to the **market participant** under Rate STS, zero (0).
	[Tariff (2021-07-01)]
"super-peak"	means the periods: (i) in the morning, from 05:00:00 to 07:59:59; (ii) in November, December and January, in the evening, from 16:00:00 to 23:59:59; and (iii) in all other months, in the evening, from 17:00:00 to 23:59:59.
	[Rules (2014-12-23)]
"supplemental reserve"	means **contingency reserve** that is (i) generation capable of being connected to the **interconnected electric system** and loaded within ten (10) minutes; or (ii) **load** connected to the **interconnected electric system** which can be reduced within ten (10) minutes.
	[Rules (2014-12-23)]
"supplemental reserve resource"	means a single device or single system that is eligible to provide **supplemental reserves** pursuant to subsection 3 of Section 205.6 of the ISO Rules, *Supplemental Reserve Technical Requirements and Performance Standards*, and that can, in any combination, deliver or receive electric energy from the **interconnected electric system**.
	[Rules (2018-02-01)]
"supply cushion threshold"	as defined in the *Supply Cushion Regulation, Alberta Regulation* 42/2024, means the target supply cushion of 932 MW.
	[Rules (2024-07-01)]
"supply transmission service"	means service under Rate STS of the **ISO tariff**, *Supply Transmission Service.*
	[Rules (2024-04-01)]
"system access service"	means the service obtained by a **market participant** through a connection to the **transmission system**, and includes access to exchange electric energy and **ancillary services**.
	[Rules (2020-09-16), Tariff (2021-01-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"system access service"	as defined in the Act means the service obtained by **market participants** through a connection to the **transmission system**, and includes access to exchange electric energy and **ancillary services**.
	[Alberta Reliability Standards (2020-08-06]
"System Contribution"	has the same meaning as in the **ISO tariff**.
	[Rules (2005-09-29)]
"system element"	means an assembly of electrical equipment, including associated switches: (i) that is generally treated as a single electrical device; (ii) that has terminals that are connected to other electrical devices; and (iii) through which electric power is provided to or flows to, through or from the **transmission system**, such as a generator, transformer, circuit breaker, bus section, transmission line, collector system feeder, continuously variable reactive compensation device, switched capacitor, switched reactor, series compensator, energy storage device, inverter, or rectifier or similar electrical device that is comprised of one or more components and has terminals connected to other similar devices, but does not include any components electrical device that is part of an **electric distribution system** or any generator connected to a collector system feeder.
	[Rules (2016-08-30), Alberta Reliability Standards (2016-08-30)]
"system load"	means the total, in an hour, of all **metered demands** under *Rate DTS, Rate FTS* and *Rate DOS* of the **ISO tariff** plus **transmission system** losses.
	[Rules (2011-10-13)]
"system operating limit"	means, as determined by the ISO, the value expressed in MW, MVar, MVA, A, Hz or kV, that satisfies the most limiting of the following: (i) **facility ratings** (applicable **equipment ratings** or **facility ratings** pre- and post-**contingency**); (ii) transient stability limits (applicable transient stability limits pre- and post-**contingency**); (iii) voltage stability limits (applicable voltage stability limits pre- and post-**contingency**); and (iv) system voltage limits (applicable system voltage limits pre- and post-**contingency**), for a specified system configuration.
	[Alberta Reliability Standards (2019-01-01)]
"system security"	means the safe scheduling, operation and control of the **AIES** on a day-to-day basis in accordance with the specified technical, security and operational standards to withstand events such as electric short circuits, unanticipated loss of **AIES** components and switching operations without experiencing cascading loss of **AIES** components or uncontrolled loss of **load**.
	[Rules (2003-06-01)]
"system transmission facilities"	means **transmission facilities** or the portion of a **transmission facility** that the **ISO** determines to be required for the benefit of many **market participants**.
	[Tariff (2023-07-20)]
"technical feasibility exception"	means a variance from a requirement in the CIP Cyber Security **reliability standards** that achieves a level of **reliability** of the **interconnected electric system** that is comparable to or higher than compliance with the requirement.
	[Alberta Reliability Standards (2017-03-21)]
"time error"	means, for a given period, the accumulation of **frequency error** as measured by the difference between: (i) the **Interconnection** time each **balancing authority** measures; and (ii) the time the National Institute of Standards and Technology specifies.
	[Alberta Reliability Standards (2012-10-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"time error correction"	means an offset to the **Interconnection**'s scheduled frequency to return the **time error** for the **Interconnection** to a predetermined value.
	[Alberta Reliability Standards (2012-10-01)]
"total transfer capability"	means the amount of **real power** the **ISO** determines can be reliably transferred over the interconnected transmission network under specified system conditions.
	[Rules (2012-01-31)]
"transient cyber asset"	means a **cyber asset** that is: 1. capable of transmitting or transferring executable code, 2. not included in a **BES cyber system**, 3. not a **protected cyber asset** associated with High or Medium Impact **BES cyber systems**, and 4. directly connected (e.g., using Ethernet, serial, Universal Serial Bus, or wireless including near field or Bluetooth communication) for 30 consecutive **days** or less to a: • **BES cyber asset**, • network within an **electronic security perimeter** containing high or medium impact **BES cyber systems**, or • **protected cyber asset** associated with High or Medium Impact **BES cyber systems**. Examples of **transient cyber assets** include, but are not limited to, **cyber assets** used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.
	[Alberta Reliability Standards (2024-10-01)]
"transmission constraint"	means a limitation imposed by one (1) or more transmission elements to normal economic merit operation of generation, load and **interchange transactions** or to the flow of electrical energy from one part of the **interconnected electric system** to the other.
	[Rules (2003-06-01)]
"**transmission constraint rebalancing**"	means the delivery of energy from a **pool asset** on the **downstream constraint side** of a **transmission constraint** in response to that portion of an energy market **dispatch** it receives to restore the energy balance on the **interconnected electric system** due to measures taken to mitigate a **transmission constraint**.
	[Rules (2015-11-26), Tariff (2015-11-26)]
"Transmission Customer"	means, with respect to a specific **Project**, the customer, as defined in the **ISO tariff**, who has made application for **system access service.**
	[Rules (2005-08-25)]
"transmission facility"	means an arrangement of conductors and transformation equipment that transmits electricity from the high voltage terminal of the generation transformer to the low voltage terminal of the step down transformer operating phase to phase at a nominal high voltage level of more than 25 000 volts to a nominal low voltage level of 25 000 volts or less, and includes (i) transmission lines energized in excess of 25 000 volts, (ii) insulating and supporting structures, (iii) substations, transformers and switchgear, (iv) operational, telecommunication and control devices, (v) all property of any kind used for the purpose of, or in connection with, the operation of the transmission facility, including all equipment in a substation used to transmit electric energy from (A) the low voltage terminal, to (B) **electric distribution system** lines that exit the substation and are energized at 25 000 volts or less, and

Consolidated Authoritative Document Glossary

Term	Definition
	(vi) connections with electric systems in jurisdictions bordering Alberta, and (vii) energy storage included in a **needs identification document** that has been approved by the **Commission**; but does not include: (viii) a **generating unit**; (ix) an electric distribution system; or (x) an energy storage resource.
	[Rules (2024-04-01)]
"transmission facility"	as defined in the **Act** means an arrangement of conductors and transformation equipment that transmits electricity from the high voltage terminal of the generation transformer to the low voltage terminal of the step down transformer operating phase to phase at a nominal high voltage level of more than 25,000 volts to a nominal low voltage level of 25,000 volts or less, and includes: (i) transmission lines energized in excess of 25,000 volts; (ii) insulating and supporting structures; (iii) substations, transformers and switchgear; (iv) operational, telecommunication and control devices; (v) all property of any kind used for the purpose of, or in connection with, the operation of the transmission facility, including all equipment in a substation used to transmit electric energy from (A) the low voltage terminal, to (B) **electric distribution system** lines that exit the substation and are energized at 25,000 volts or less, and (vi) connections with electric systems in jurisdictions bordering Alberta, but does not include a **generating unit** or an **electric distribution system**.
	[Tariff (2021-01-01)]
"transmission facility"	as defined in the **Act** means an arrangement of conductors and transformation equipment that transmits electricity from the high voltage terminal of the generation transformer to the low voltage terminal of the step down transformer operating phase to phase at a nominal high voltage level of more than 25 000 volts to a nominal low voltage level of 25000 volts or less, and includes (i) transmission lines energized in excess of 25000 volts, (ii) insulating and supporting structures, (iii) substations, transformers and switchgear, (iv) operational, telecommunication and control devices, (v) all property of any kind used for the purpose of, or in connection with, the operation of the transmission facility, including all equipment in a substation used to transmit electric energy from (A) the low voltage terminal, to (B) **electric distribution system** lines that exit the substation and are energized at 25 000 volts or less, and (vi) connections with electric systems in jurisdictions bordering Alberta, but does not include a **generating unit** or an **electric distribution system**.
	[Alberta Reliability Standards (2014-10-01)]
"Transmission Facility Proposal"	means a transmission facility proposal as referred to in s. 35(1)(a) of the **Act** for a **Project** that, following the **ISO's** issuance of a **Direction**, is submitted by a **Designated TFO** to the **Commission** in accordance with the **ISO's Direction** for approval pursuant to the **HEEA.**
	[Rules (2008-08-11)]
"transmission must-run"	means a service whereby a **source asset** that is not **in merit** may receive a **directive** to operate at a minimum specified MW output level in order to maintain **system security**.
	[Rules (2024-04-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"transmission operator"	means the entity responsible for the **reliability** of its "local" **transmission system**, and that operates or directs the operations of the **transmission facilities**.
	[Alberta Reliability Standards (2010-01-22)]
"transmission planner"	means the entity that is registered with **NERC** and as defined under the **NERC** functional model.
	[Alberta Reliability Standards (2015-09-01)]
"transmission reliability margin"	means that amount of transfer capability the **ISO** determines is necessary to ensure the reliable operation of the **interconnected electric system** taking into account uncertainties in system conditions and the need for operating flexibility.
	[Rules (2012-01-31)]
"transmission system"	as defined in the **Act** means all **transmission facilities** in Alberta that are a part of the **interconnected electric system.**
	[Rules (2010-09-07), Alberta Reliability Standards (2011-12-31)]
"transmission system"	as defined in the **Act** means all **transmission facilities** in Alberta that are part of the **interconnected electric system**.
	[Tariff (2015-07-01)]
"transmission system losses"	means, for each year, the total of the **transmission system losses** on **the interconnected electric system**.
	[Rules (2005-05-25)]
"under voltage load shed"	means a protection scheme that enables pre-configured devices to automatically shed load to stabilize voltage when voltage falls below predetermined limits.
	[Alberta Reliability Standards (2014-10-01)]
"under voltage load shed (UVLS)"	means a protection scheme that enables pre-configured devices to automatically shed load to stabilize voltage when voltage falls below predetermined limits.
	[Rules (2003-06-01)]
"underfrequency load shedding"	means the automatic or manual actions required to shed system load when the system frequency falls below the normal system operating frequency of 60 Hz in order to allow for the return to a secure state.
	[Tariff (2021-01-01)]
"underfrequency load shedding"	means the automatic or manual actions required to shed system load when the system frequency falls below the normal system operating frequency of sixty (60) Hz in order to allow for the return to a secure state.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)]
"unit commitment directive"	as defined in the *Supply Cushion Regulation*, Alberta Regulation 42/2024, means a **directive** issued by the **ISO** in accordance with the *Supply Cushion Regulation* for an **eligible long lead time asset**.
	[Rules (2024-06-21)]
"unplanned outage"	means the unavailability of a facility which is not anticipated as part of a **legal owner**'s regular maintenance and occurs as a result of a deliberate, manual action.
	[Tariff (2015-07-01)]
"upstream constraint side"	means, in relation to the transmission elements that comprise the **transmission constraint**, those elements of the **interconnected electric system** more proximate to the supply side of the **transmission constraint** than to the load or consumption side of the **transmission constraint**.
	[Rules (2011-05-05)]
"variable energy resource quantity "	means the portion of the **maximum capability** of a **source asset**, starting from 0 MW, that is deemed to be dependent on solar or wind conditions.
	[Rules(2024-04-01)]

Consolidated Authoritative Document Glossary

Term	Definition
"voltage regulating system"	means the equipment that automatically controls the **reactive power** resources to regulate the voltage level at any **collector bus**.
	[Alberta Reliability Standards (2016-04-01)]
"voltage regulating system"	means the equipment that automatically controls the **reactive power** resources to regulate the voltage level: (i) at any **collector bus** for an **aggregated generating facility**; or (ii) at a control point for an **energy storage facility**, as specified by a **market participant** in accordance with the applicable section of the **ISO rules**.
	[Rules (2016-04-25)]
"WECC"	means the Western Electricity Coordinating Council.
	[Rules (2003-06-01), Alberta Reliability Standards (2014-10-01)]
"western interconnection"	means the area comprised of those portions of western Canada, northern Mexico and the western United States in which members of the **WECC** operate synchronously connected transmission systems.
	[Rules (2010-12-01)]
"western interconnection"	means the area comprised of those portions of western Canada, northern Mexico and the western United States in which members of the **WECC** operate synchronously connected **transmission systems**.
	[Alberta Reliability Standards (2014-10-01)]
"wheel through transaction"	means an **interchange transaction** that: (i) is represented by a single **e-tag**; (ii) is comprised of an import **offer** over one transfer path and an export **bid** over a different transfer path that specify quantities equal to one another; and (iii) originates and terminates outside of the Alberta **balancing authority area**.
	[Rules (2012-01-31)]
"wide-area"	means the entire **ISO** area as well as the critical flow and status information from adjacent **reliability coordinator areas** as determined by detailed system studies to allow the calculation of **interconnection reliability operating limits**.
	[Alberta Reliability Standards (2015-07-08)]
"wind turbine generator"	means a single **generating unit**, turbine and associated power electronics which converts mechanical energy from wind to electric energy.
	[Rules (2010-09-07)]