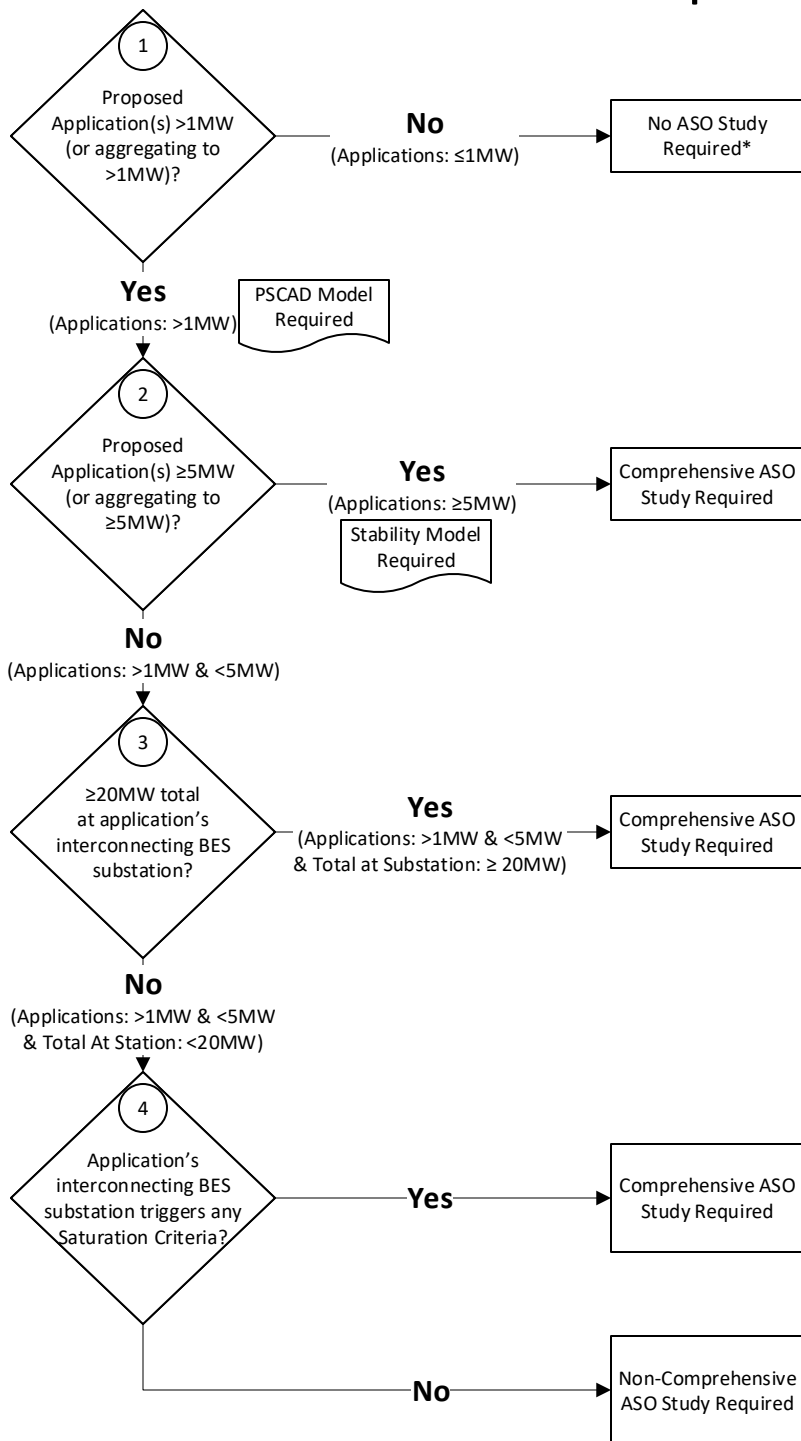


ASO Impact Screen



* An ASO Study will not be triggered for an application <1MW, but the application may be impacted if there is an on-going ASO Study for another application earlier in the queue.

Developer Model Requirements:

All required models identified below must be submitted by the applicant prior to the commencement of the ASO Study.

PSCAD Model Requirements: Any applicant >1MW that participates in an ASO Study (comprehensive or non-comprehensive) must provide a PSCAD model specific to their inverter manufacturer/model to enable an electro magnetic transients study to be performed (refer to ISO-NE PP5-6, Appendix C, found at: <https://www.iso-ne.com/participate/rules-procedures/planning-procedures/>).

PSSE Stability Model Requirements: DER Projects >=5MW need to provide PSSE Stability Models in the current version that ISO-NE is using for planning studies, including the RAW and DYR files.

Definitiveness of Diagram Results:

Final Determination: ISO-NE makes the final determination on all study requirements regardless of screen results. ISO-NE has the discretion to revise criteria regardless of the screen in the EDC interconnection tariff. The results of each decision point (indicating which type of ASO Study are or might be required) are based on the best available information the EDCs have been able to confirm with ISO-NE at the time that this diagram was drafted. The EDCs will continue to consult with the ISO-NE about further refinement to the criteria and results of this diagram.

Further Process Required: Diagram depicts the process for Standard Process Initial Review "ASO Impact Screen" and ASO Study requirements may change based on application queue changes or based on engineering analysis during the Impact Study process. A similar evaluation of ASO Study requirements will also be performed during the course of an Impact Study or Group Study once sufficient distribution engineering analysis has been performed to confirm the optimal transmission injection point and/or applicant project maturity.

Terminology (for the purpose of this diagram):

Comprehensive ASO Study: Level 3 study as per ISO-NE Planning Procedure 5-3, it includes steady state power flow, stability and short circuit analysis

Non-Comprehensive ASO Study: A degree of analysis less than Level 3 study requirements, which could be Level 0,1,2 or other appropriate types of analysis

BES: Bulk Electric System (generally operating at 100kV or greater, but may also include 69kV in some areas)

Neighboring: Any BES substation (up to 4 substations away) on a transmission line that is also connected to the interconnecting BES substation, which applies to every transmission line connected to the interconnecting BES substation

Notes Related to Specific Decision Points:

Decision Points 1 & 2: The reference to 1MW and 5MW thresholds (i.e. what constitutes an "application" or an aggregation of applications) are based on ISO-NE Planning Procedure 5-1, found at: https://www.iso-ne.com/static-assets/documents/rules_proceeds/isone_plan/pp05_1/pp5_1.pdf. An "aggregation" for the purposes of this diagram is the sum of capacity at individual sites (submitted together or separately over time) from the same developer with no significant load between the points of interconnection.

Decision Point 3: The assumed interconnecting BES substation for the purposes of performing the "ASO Impact Screen" would be to the substation that normally serves the proposed site location (either directly or via the EDC's sub-transmission system), until/unless distribution study determines otherwise later in the process. The 20MW threshold includes any DG applications >1MW that are: (a) in the application queue, (b) have received an approval from ISO-NE, or (c) were connected since January 2019, and this threshold is based on a performance requirement of a stability study in ISO-NE Planning Procedure 3, found at: https://www.iso-ne.com/static-assets/documents/rules_proceeds/isone_plan/pp05_3/pp5_3_final.pdf.

Decision Point 4: Saturation Criteria:

- 1) A Comprehensive (Level 3) ASO Study was completed since January 2019 at the interconnecting and/or neighboring BES substation(s)
- 2) Interconnecting BES substation is in an area of the EDC's DG hosting capacity map that is showing red and/or indicated a capacity limit on the distribution feeders
- 3) Following the addition of this application, the cumulative DG (including ESS) at the interconnecting and/or neighboring BES substation(s) exceeds 20MW of DG capacity that consist of (a) applications in the application queue (ahead of this application) and/or (b) that never went through an ASO Study since January 2019.

The determination that a Comprehensive or Non-Comprehensive ASO Study will be required as a result of the Saturation Criteria will be revisited at a later point in the study process when the project is more mature and all relevant local factors are able to be validated or revised as appropriate.