

Affected Systems Coordination in the new Process

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References for PJM Affected System Study

- Tariff: Part VII Subpart G, section 336
Part VIII Subpart G, section 434
- Manual: Manual 14H, section 13
- JOAs or Joint Operating Agreements between PJM and other neighboring ISOs

- **“Affected System”** is an electric system other than the Transmission Provider’s Transmission System that may be affected by a proposed interconnection or on which a proposed interconnection or addition of facilities or upgrades may require modifications or upgrades to the Transmission System.
- **“Affected System Customer”** is the developer responsible for an Affected System Facility that requires Network Upgrades to Transmission Provider’s Transmission System.
- **“Affected System Operator”** is the entity that operates an Affected System or, if the Affected System is under the operational control of an independent system operator or a regional transmission organization, such independent entity.
- **“Affected System Customer Facility Study Agreement”** shall mean the agreement set forth in Tariff, Part IX, Subpart N.

MISO

NYISO

DEP

DEC

TVA

LGE-KU



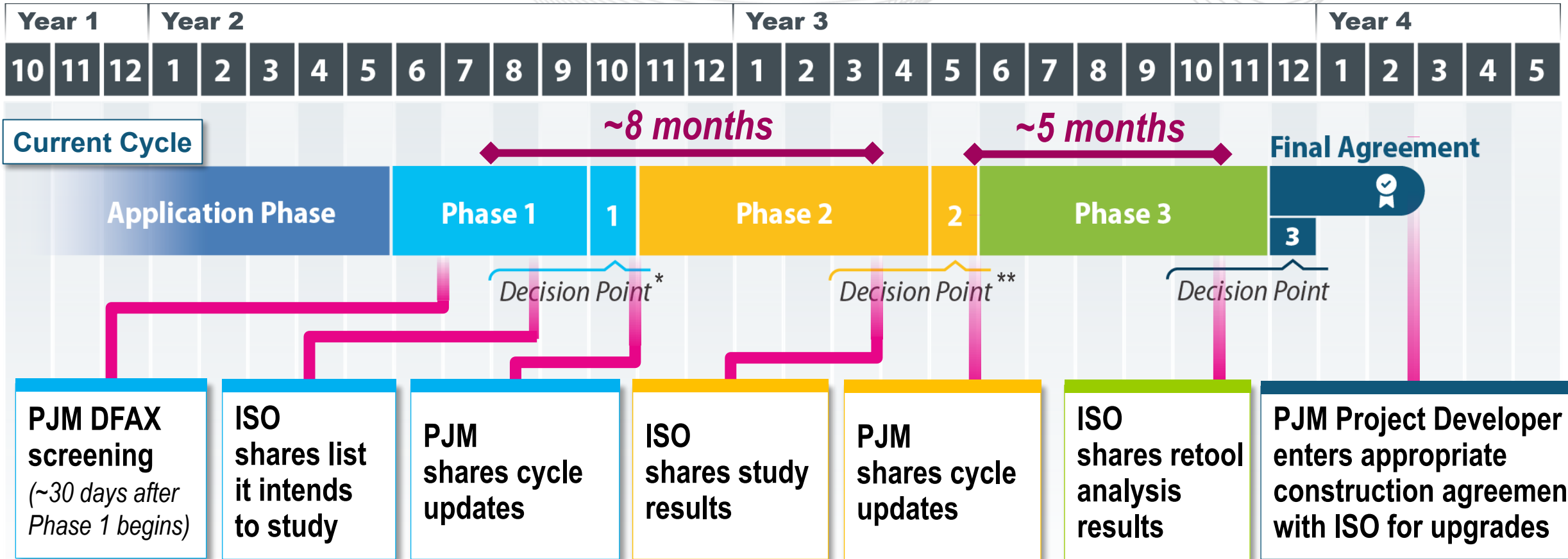
If Affected System is an Electric System Other than PJM

- **Affected System Screen:** If a PJM New Service Request impacts an Affected System, PJM will notify the impacted Affected System Operator.
- **Project Developer Support:** Project Developer shall cooperate with PJM and the Affected System Operator to conduct necessary studies.
- **Agreement with Affected System Operator:** The Project Developer is responsible for entering into necessary agreement with Affected System Operator arranging any necessary engineering, permitting, and/or construction on the Affected System or for obtaining any regulatory approval for the facilities.

- **Cost Responsibility:** The Project Developer will be responsible for the costs of any upgrades to address the impacts to the Affected System.
 - The cost allocation for these upgrades will be in accordance with the Affected System Operator's Tariff, only if their project request was initiated in the Affected System Operator's tariff
- **Limited Operation Study:** If any required Affected System upgrades have not been completed, prior to the commencement of the operations of the Generating Facility or Merchant Transmission Facility (Initial Operation), PJM at its discretion may limit service of the project's facilities, in accordance with Good Utility Practice, until any interim deliverability analysis by the Affected System Operator are completed.



Affected System Study Coordination – PJM Customers



PJM Project Developers that:

* Are screened for Duke, LG&E or TVA Affected System Study should enter into a Affected System Study Agreement.

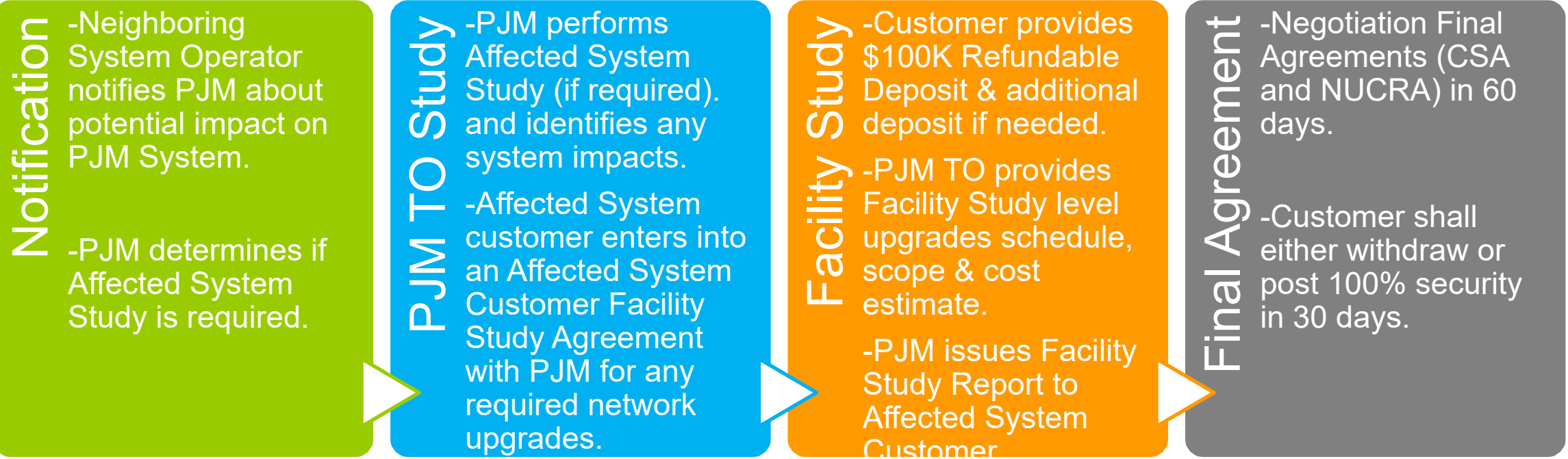
** The Project Developer must enter into an affected system study agreement with the Affected System Operator by the later of end of DP2 or 60 days after PJM notification or they will be withdrawn from the cycle

**If available, PJM will provide Affected System Study results to Project Developers in Phase II

THIS PROCESS WILL APPLY TO EACH CYCLE.

If Affected System is PJM Transmission System

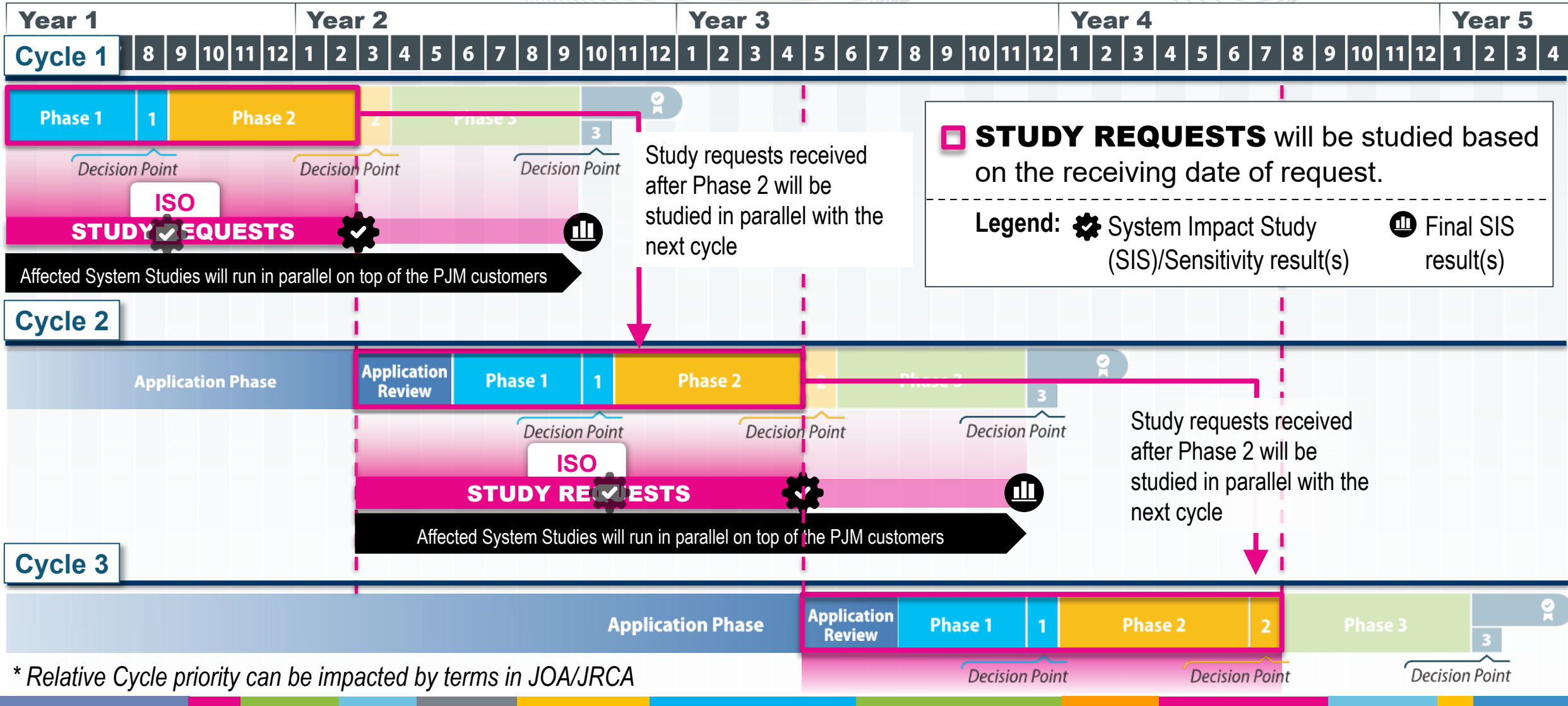
- Different System Operators have different set of screening criteria for determination of impact on Affected System Operator
- Necessary Steps if Affected System is PJM Transmission System:





If Affected System is PJM Transmission System

- **Affected System Customer Facility Study Agreement:** Affected System Customer must enter into *Affected System Customer Facility Study* agreement with PJM. The request for the agreement can be made via the Customer Service email on the PJM website.
- **Network Upgrades:** In the event that Network Upgrades are required on the PJM system, then service will commence on a schedule mutually agreed upon among the parties. This schedule will include milestones with respect to the Network Upgrade construction and the amount of service that can commence after each milestone.
- **Limited Operations Study:** PJM will determine any necessary limits associated with the Interconnection Request or long-term firm transmission service request that should be implemented in Real Time until the necessary PJM system upgrades identified through PJM's affected system analysis are placed in-service.



- There will be no shared upgrade cost allocation between PJM customer and an Affected System Customer.
- PJM Cycle and Affected System Studies will be performed parallel to each other.

- MISO JOA and TVA JRCA
 - <https://www.pjm.com/library/governing-documents>
- NYISO:
 - https://www.nyiso.com/documents/20142/2924447/tei_mnl.pdf/b2f926e9-2faa-2c42-5a09-2402cdb8bacc?t=1672852997127
- Duke Energy Progress (DEP)
 - <https://www.oasis.oati.com/cpl/>
- Duke Energy Carolinas (DEC)
 - <https://www.oasis.oati.com/duk/>

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