

# Affected System Study Update for Transition Cycle Projects

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Analysis

**Affected System Study** is set of studies performed by Affected System Operator(s) that may be affected by a PJM New Service Request project.

- Not all projects are marked for affected system study, rather the projects that [meet affected system screening criteria](#) would require affected system study by one or multiple Affected System Operator(s).

MISO

NYISO

DEP

DEC

TVA

LGE-KU



# PJM Cycle Project Impacts on Neighboring System

## PJM Manual 14H, Section 13

- **Affected System Screen:**

- PJM will work with Affected System Operator to determine if Affected System Study needed for a PJM Cycle project.
- PJM Cycle project will be made aware of the need for Affected System Study in Phase I SIS report.

- **Project Developer Support for Affected Systems Study:**

- The Project Developer is responsible for entering into necessary Affected Systems Study agreement (if required) with Affected System Operator (for review of system impacts through analysis).

- **Other Agreements with Affected System Operator:**

- If any reinforcements are required as a result of the studies, the PJM Project Developer will be responsible for entering into necessary Facilities Study and Construction Agreements with the Affected System.

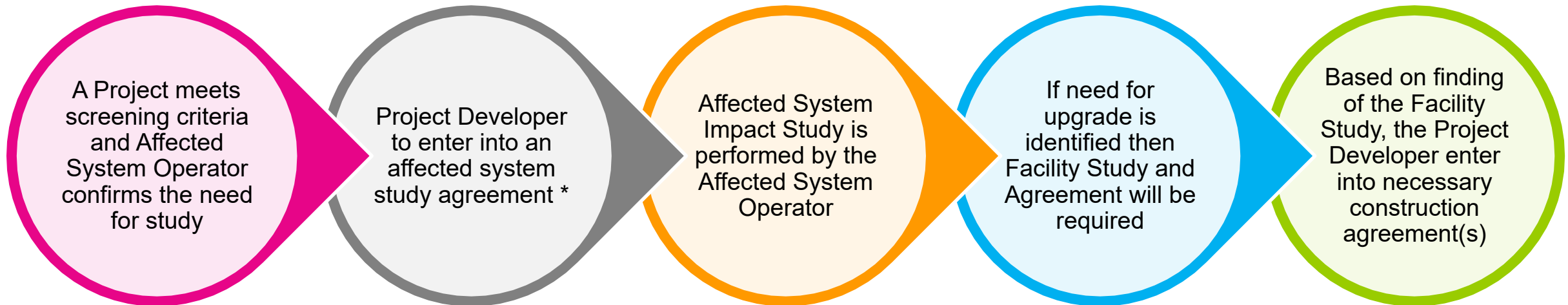
- **Cost Responsibility:**

- PJM Project Developer will be responsible for the costs on any upgrades required to address the impacts to the Affected System (according to 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.

- TC1 Project Developers are required to reach out to the Affected System Operator (ASO) and follow their tariff language for Affected System Study requirements

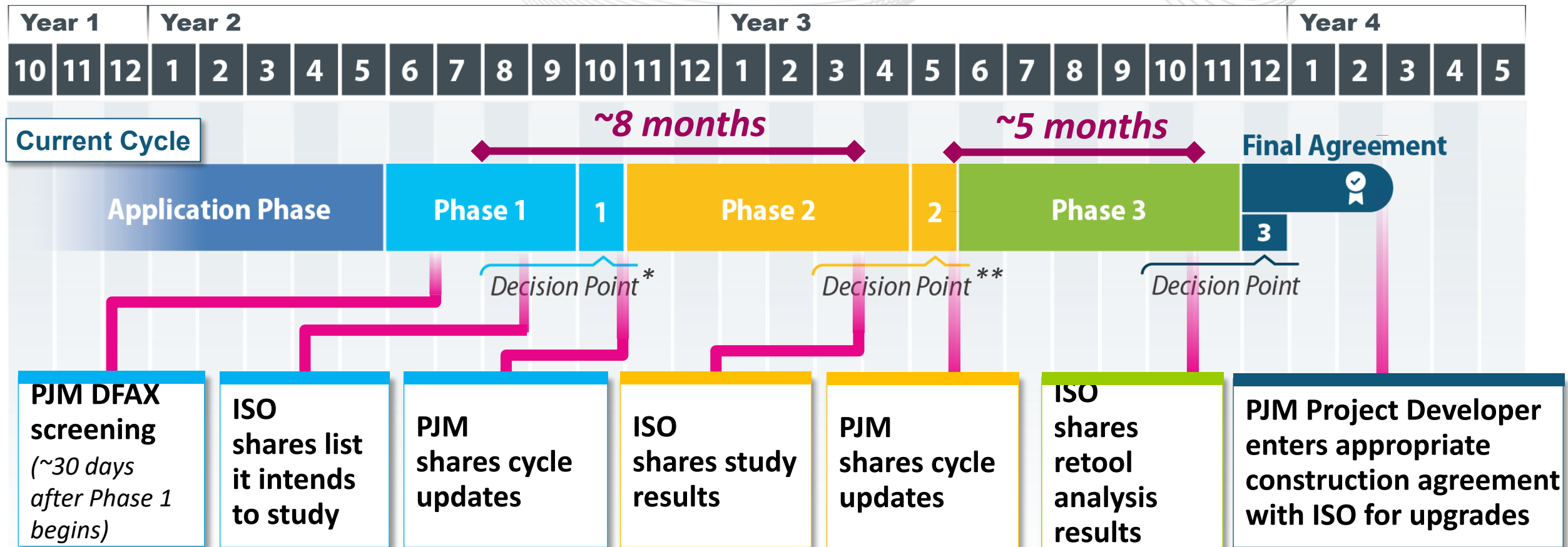


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\* MISO does not require affected system study agreement

\*\* TC1 Project Developers that need affected system study must enter into an affected system study agreement with the Affected Systems Operator (if required by the affected system) no later than the conclusion of the DP2 of TC1. Failure to comply will result in **withdrawal** from the Cycle. It is highly recommended to reach out to the ISOs as soon as possible as each ISO has its own internal processes and timeline.

# 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

**THIS PROCESS WILL APPLY TO EACH CYCLE.**

- **AFS Agreements Signed:** All TC1 Project Developers that were required to execute an affected system study agreement based on TC1 Phase 1 System Impact Study report, did enter into those agreements. (MISO does not require AFS Agreement)
- **Affected System Studies in progress:** PJM is coordinating with all Affected Systems Operators to ensure the Affected System Study results are included in the PJM TC1 Phase III SIS reports.
- **Affected System Results to be in Phase III SIS:** AFS results will be included in the TC1 Phase III SIS reports to be posted on PJM.com [Cycle Service Request](#) page.

- **First Notification:**

- **Email:** PJM will send an email to TC2 projects before the end of Phase I if they need an Affected System Study. We will include a contact person for the agreement needed with the Affected System Operator. (*excluding MISO who does not need an agreement*)
- **Phase I SIS:** TC2 projects will also will be notified in their Phase I SIS report if an Affected Systems Study is required based on the screens.

- **AFS Agreements:** If a TC2 project is required to have an Affected Systems Study, they will need to enter into the necessary Affected Systems Study Agreement with the Affected System Operator (*excluding MISO*).
- **Timing:** It is preferred that this be done within 60 days of DP1 to accelerate the process with the neighboring entities and ensure results can be communicated as early as possible and no later than the Phase III SIS.

- Readiness Deposit
- Transmission Owner Scope of Work
- Transmission Owner Analysis
- Developer Requirements
- Revenue Metering and SCADA Requirements
- Summer Peak Analysis
- Summer Potential Congestion due to Local Energy Deliverability
- Winter Peak Analysis
- Winter Potential Congestion due to Local Energy Deliverability
- Light Load Analysis
- Light Load Potential Congestion due to Local Energy Deliverability
- Short Circuit Analysis
- Stability Analysis
- Reactive Power Analysis
- Steady-State Voltage Analysis
- New Service Request Dependencies
- Affected Systems**
- System Reinforcements
- Attachments

## Affected Systems

In Phase II of the Cycle, PJM provides the Affected System Operator any updates on the PJM projects that require an Affected Systems Study based on their response at DP1. New Service Requests that require an Affected Systems Study are required to enter into an Affected Systems Study Agreement with the Affected System Operator, as applicable, prior to the close of DP2 or they will be withdrawn from the Cycle.

If the Project Developer already entered into the necessary agreement and the results are available, PJM will supply them in the Phase II SIS report. See below for the status of any required Affected Systems Study. A status of "Pending" means that the study is not yet completed by the Affected System Operator. If your project requires an Affected Systems Study and your results are not provided for Phase II SIS, PJM anticipates providing them in the Phase III SIS per Tariff Part VII.D.312.

Midcontinent Independent System Operator (MISO)	Study Pending
New York Independent System Operator (NYISO)	Not required
Tennessee Valley Authority (TVA)	Not required
Louisville Gas & Electric (LG&E)	Not required
Duke Energy Carolinas (DUKE)	Not required
Duke Energy Progress - East (CPLE)	Not required
Duke Energy Progress - West (CPLW)	Not required

- 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](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/>

## Presenter:

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