

# Storage As a Transmission Asset (SATA) Operations Education

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Systems Modeling

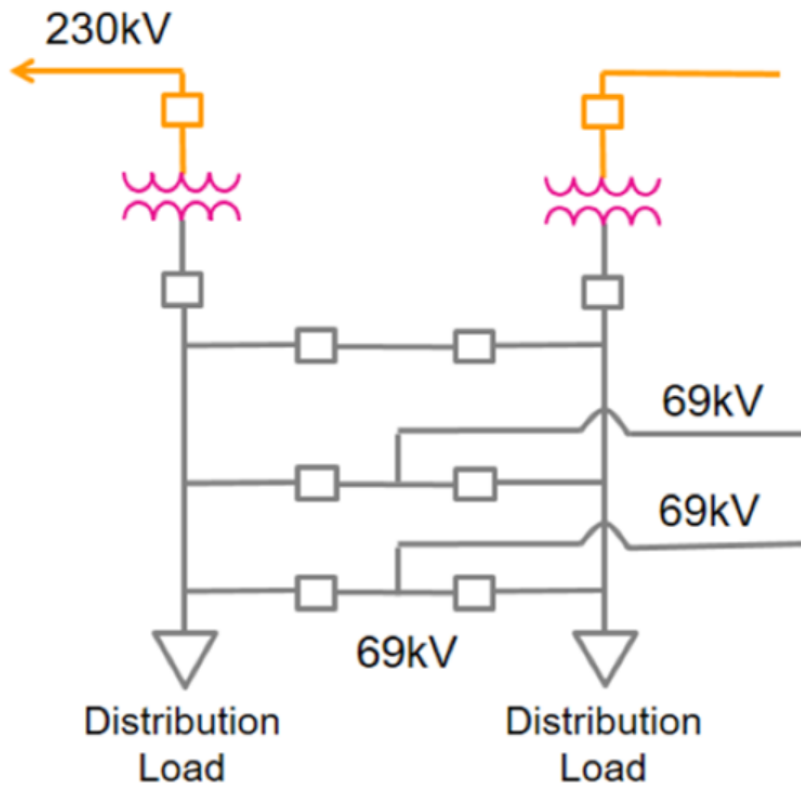
Operating Committee

April 03, 2025

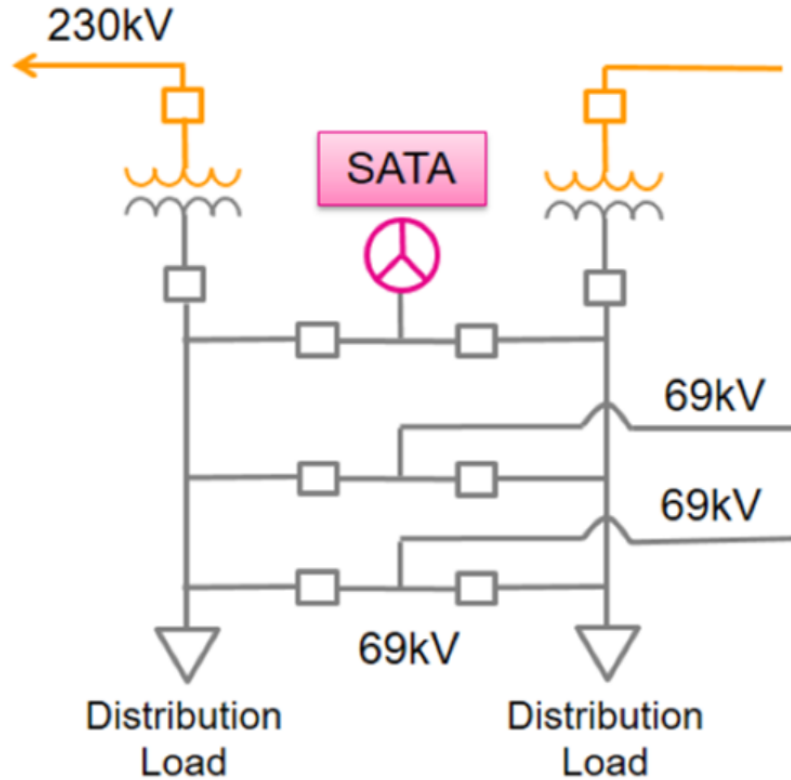
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<ul style="list-style-type: none"><li>• Develop SATA operational details, including considering use cases</li></ul>	<ul style="list-style-type: none"><li>• Continue education where applicable</li></ul>	<ul style="list-style-type: none"><li>• Refresh industry analysis on operating a SATA</li></ul>

- SATA not allowed to participate in PJM Markets (at least not during this phase of work)
- SATA operated as a typical wires solution
- SATA automatically responds to post contingency local system needs

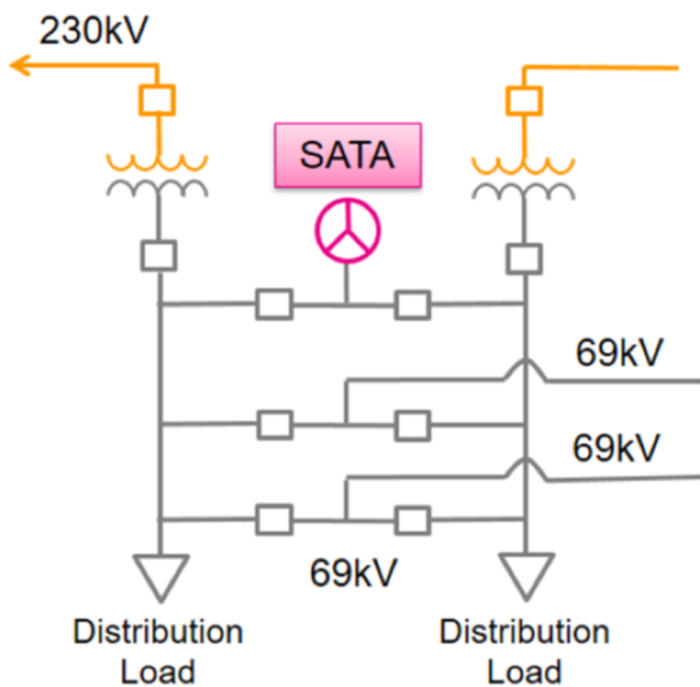
Traditional Solution



SATA Solution



1. Traditional Solution replaces two 230/69kV transformers that may not be at end of life (EOL) with larger transformers
2. SATA Solution installs (interconnects) the storage asset at the 69kV bus for instantaneous post-contingency mitigation



## Energy Storage Resource – modeled as a generator

### Details:

- MW's can go negative (charging)
- MW's can go positive (discharging)
- State of charge telemetered

- RAS are seen and used as “temporary” transmission system solutions and could be a way to employ SATA
- [m03.pdf](#) Section 1.7 Procedure to Review Remedial Action Schemes

- Continue internal discussions once Issue Charge approved
- Refresh industry analysis on operating a SATA
- Recommend proceeding with this effort to address the operational mechanics of integrating SATA
  - Doing so at this time would allow storage to be planned and integrated as a transmission asset to assist with resolving reliability issues

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## Operating Committee



## Member Hotline

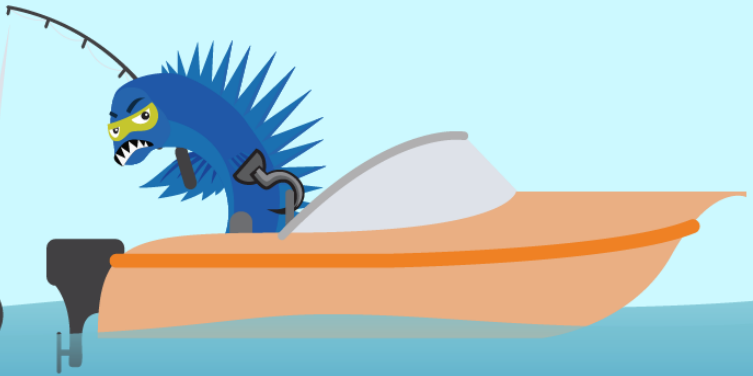
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