

# VSPC Generation Constraints Subcommittee – Storage Work Group

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8/10/20



## Introductions

## Generation Constraints Purpose

## Storage Work Group

- Identification of issues to consider
- Definitions
- Prioritization
- Workplan

# Generation Constraints Subcommittee (Draft definitions 9/2019)

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A generation constraint is a condition under which dispatchable generators are subject to curtailments, or new generators and other devices that export power to the grid cannot be connected without violating system operational criteria and adversely impacting safety, power, quality, or reliability.

A near generation constraint is a condition under which a generation resource or other devices that export power to the grid, and that have a nameplate capacity of less than 5 MW [1 MW, 500 kW ??], cannot be connected without violating system operational criteria and adversely impacting safety, power quality, or reliability.

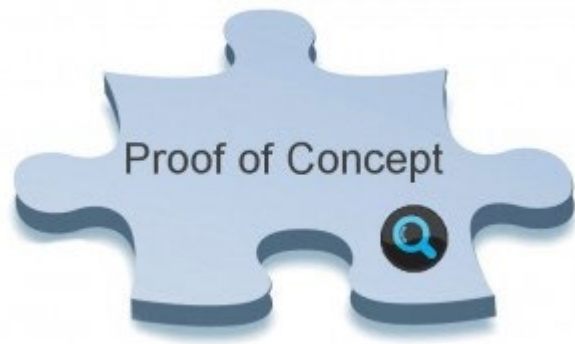
Grid Constraint: A distribution or sub-transmission condition where and when operations of distributed energy resources impact reliability criteria.

# Storage Work Group

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## Goals:

- Understand the theoretical performance characteristics of each strategy, and also understand the costs and benefits of the strategy.
- Understand what it means to implement the strategy in a targeted manner and to understand the potential for the strategy to minimize generation constraints.



→ → Vergennes Generation Constraint

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Cost and value

Regulation

Practical experience