



GE VERNOVA

CONSULTING SERVICES

OPTIMAL POWER FLOW POSITIVE SEQUENCE LOAD FLOW (PSLF*)

Optimizing Your Network

PSLF's OPF (optimal power flow) add-on is used to determine the "best" way to operate a power system. Typical objective functions include:

- Minimize generation costs or economic dispatch
- Optimal SVD placement to address voltage problems
- Sizing of switched shunt
- Minimum control shifts to alleviate violations. This function can be integrated with SSTOOLS to automatically relieve violations in steady state contingencies.

Available controls for use during the optimization include the list below. Control settings are reported before and after the optimization has taken place.

- Generation MW dispatch
- Phase shift angle
- Load shedding
- Transformer tap adjustment
- SVD

A number of constraint limitations may be specified so that recommended optimizations are feasible:

- Generator limits, transformer tap limits, etc.
- Power balance equations
- Branch flow thermal limits
- Interface flow limits
- Bus voltage limits



For more information, contact:

www.gevernova.com/consulting/contact

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