

Repeated gradient-based
single objective optimization
(SQP + epsilon constraint)

Derivative-free
multi-objective
pattern search

Design
freedom
analysis

**Design space
exploration**
(OAT sweep)

**Single objective
optimization**
(min LCOE)

**Multi-objective
optimization**
(min cost, max
average power)

Gradient-based
optimization
(SQP)

Multi-start

Local parameter
sensitivity analysis

Evaluation-based OAT
global sensitivity analysis

Optimization-based OAT
global sensitivity analysis