



NETPLAN

Data management, computational models and result analysis

The following data were incorporated to the data manipulation, computational models and result analysis module:

- Added to AC/DC circuit display window, the reserve area field
- Added to the File menu a new data/result export option, for Origenon file format

Corrections and improvements made are listed next:

- In OptNet investment sheet, text “load deviation” changed to “Unpenalized Percentage”
- In PSRFlow execution options sheet, the “check” text “circuit flows” changed to “circuit overloads”
- When editing CSC data, creation of new CSC, parallel to another one, is forbidden
- The visualization of SDDP demand data was corrected; the error occurred for data base having more than one production scenario
- A check is done when the user manually inputs a candidate circuit build, case the current year is not within its min/max allowed date (an error message is displayed)
- When adding additional stages to the study horizon data of NetPlan data base, error correction in the contents of binary files
- When editing OptGen project data file datprjc.csv within NetPlan interface, error correction occurring when updating file
- In the network diagram, the representation of a battery is now distinguished from a generator
- New window for data and result visualization of batteries
- For weekly data base, error correction occurring when retrieving scenarios from the first stage of the second year
- When importing AC bus data from csv file, error correction during update of bus area
- When a Candidate Project is built, substituting an existing circuit, starting from this date the circuit is automatically discarded from the network configuration

- Correction in lack of update in circuit change data occurring when updating the expansion plan
- CSC data window correction: error occurring when changing its connection bus and updating

Transmission expansion planning module (OptNet)

New feature incorporated to the transmission expansion planning module:

- Flow controller, existing or candidate project, connected to a transmission line, also existing or candidate project

List of corrections and/or improvements:

- The list of user defined constraints relating candidate projects now allows the representation of three winding transformers
- Correction in the redundancy check process, occurring when checking for three winding transformers, being part of user defined constraints relating candidate projects
- Correction in automatic logical constraints relating candidate projects, when allowing for small generation deviations or unsupplied loads
- Correction in convergence summary report related to redundancy check process, occurring when the three winding transformer has 1 kV dummy bus representation
- Detailed yearly convergence log report now displays warning for scenarios having load-generation unbalance, for which OptNet discards when performing scenario severity analysis
- Correction in the representation of the sum of circuit constraint. It was being defined with limits equal to zero before its entry date

Reactive power expansion planning module (OptFlow)

Corrections and improvements implemented in the module:

- The numeric ID of shunt elements now have five digits
- Case OPF solution is not convergent for a given scenario, the discretization of shunt elements is skipped
- Automatic 0.01MW threshold for injection in AC-DC converter is adopted when solving OPF
- For network with DLinks, case OPF solution is not convergent for a given scenario, automatic change of representation, adopting fixed injection DLink model. A new column in Summary Result file shows the DLink model used when solving the OPF
- Case representing sum-of-circuit-flow constraints, error correction occurring due to wrong identification of circuits in the constraint