



OPTGEN VERSION 6.0

Compatibility with model SDDP version 10.0

The version 10.0 of the SDDP model presents the restructure of some data files in comparison to the SDDP previous versions and, for this reason, the OptGen model has passed through a compatibilization process in order to be integrated with the version 10.0 of the SDDP model.

The version 6.0 of the OptGen model, when executed with the SDDP, requires the use of version 10.0 (or greater) of the model and identifies incompatibilities concerning the use of previous version data files.

The data conversion to the version 10.0 is automatically accomplished when the user opens the SDDP interface using the button located in the OptGen's toolbar. For further information about the modifications in the SDDP model version 10.0, see file SddpReadme.

Identification of the SDDP version

It has been implemented in the OptGen model the identification of the SDDP version that is used during the integrated execution with the OptGen. If any incompatibility is found between the versions of the two models then the execution is interrupted.

New output graphical reports

New output graphical reports were added to the stand-alone version of the OptGen model:

- Fuel consumption (kUnit) by thermal plant
- Total consumption (kUnit) by fuel
- Marginal cost (\$/MWh) by interconnection

These outputs were already available for the OptGen/SDDP version.

Model updates

- Criteria modification has been made in the reference marginal cost evaluation, which is printed for each project in the execution report, OptGen.log file. The fuel cost used in the evaluation is no longer the average of the costs read from the chronological file, but the cost which corresponds to January of the first year of the study. This way, the reference marginal cost has become comparable

to the annualized investment cost whose evaluation is also referred to January of the first year of the study.

- The firm energy and firm capacity constraint modeling has been modified in order to take into account the outage of the existent plants that are substituted by candidate projects.
- The default value for hydro plants firm capacity has been modified from 0.6 p.u. to 1.0 p.u.

Graphic interface

- An error in the payment schedule screen has been fixed which occurred when a payment schedule that was associated to at least one project was eliminated by the user.
- It has been added in the payment schedule screen the verification if each schedule defined by the user is constituted by disbursements whose total sum is 100%. When saving the data, the interface verifies if this condition is met and shows an error message otherwise.
- Errors associated to some controls of the firm energy/capacity screen have been fixed, which were causing the printing of incorrect values in the data files.
- An error has been fixed for data elimination in the existent plants modification data screen.