Running AMES V5.X Using Test Case Input Data

Step 1: Running AMES V5.X in basic default form

After the installation instructions 1-6 in the 'INSTALLATION.rst' file have been carried out, AMES

V5.X can be run using either of the following two options:

Option 1 (Without FNCS): Users who intend to run AMES V5.X without using FNCS can execute

the command below from the command line prompt:

java-jar-Djava.library.path=%YourLocationForAmesV5.X%/fncsDependencies"

%YourLocationForAmesV5.X%/dist/AMES-V5.X.jar"

Option 2 (With FNCS): Users who intend to run AMES V5.X using FNCS need to follow the below instructions. The necessary sample files are provided in the 'TESAgents' subdirectory to run

AMES V5.X with FNCS. Advanced users can modify these sample files to run AMES V5.X with

FNCS in a manner that suits their purposes.

To run AMES V5.X with FNCS, execute the following command from the command line prompt:

1. Change the directory to TESAgents using in user's system

Example usage: Cd %YourLocationForAmesV5.X%/TESAgents/

2. Run AMES V5.X by executing the command below

Command: runAMES.bat

Note: If the user wants to run AMES operating within an Integrated Transmission and

Distribution (ITD) system, the user needs to execute the following command

Command: runAMES.bat ITD TxBus

The above command depends on the following user-specified parameters:

ITD is to be assigned 1 if the model is to be run with ITD else 0 (the default value is 0)

TxBus – The bus to which the distribution system is considered to be connected to

(Note: This input is only needed if this model is used within an ITD system)

Example usage: runAMES.bat 1 2

If the user wants to end the simulation run in the middle of the run, the user needs to

execute the following command

'kill5570.bat'.

Note:

i. Users interested in creating their own input '.dat' files, please note that the required input '.json' files for forecasted load must be created following the guidelines below.

If the user creates a test case data input file named 'FileName.dat', then the user needs to create two additional files in '.json' format – one for day-ahead forecast and another for real-time forecast, in the following format.

FileNameDAM.json

FileNameRTM.json

(Default '.json' files are located in %YourLocationForAmesV5.X%/TESAgents/forecast/data)

- ii. Developers who have made modifications in the AMES V5.X code will need to compile AMES V5.X prior to running AMES V5.X. To compile AMES V5.X, execute the following command from the command line prompt:
 - a. Change the directory to TESAgents using

Example usage: Cd %YourLocationForAmesV5.X%/TESAgents/

b. Compile by double-clicking on the below batch file compileAMES.bat

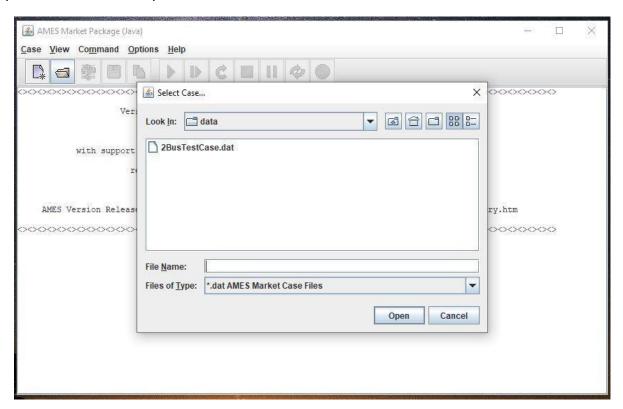
Step 2: Screen display check

After running AMES V5.X using Option 1 or Option 2, the following screen for the AMES Graphical User Interface (GUI) should be displayed.



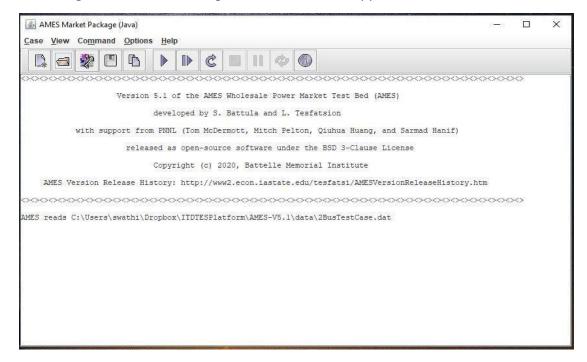
Step 3: Select a test case data input file

To select a test case data input file (e.g. `2BusTestCase.dat') located in the 'data' subdirectory, first select the "Case->Open Case" command from the main AMES GUI menu and then select the required test case data input file.



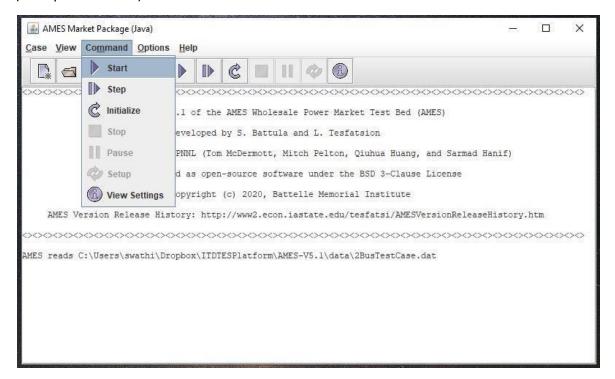
Step 4: Open the selected test case data input file

After selecting the desired test case data input file, click the 'Open' button along the bottom right of the dialogue box. The following screen should then appear.

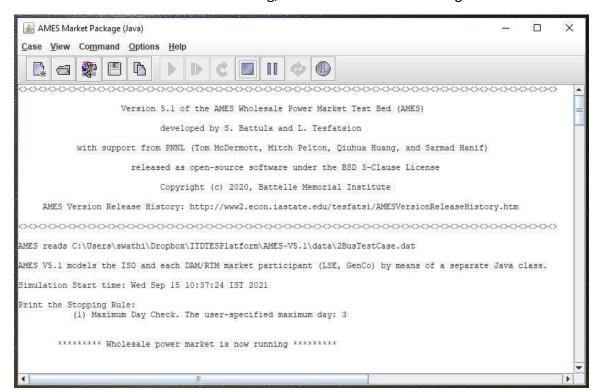


Step 5: Running the selected test case data input file

To run the selected test case data input file, either click the "Start" icon on the AMES GUI toolbar or (as depicted below) select "Command->Start" from the main AMES GUI menu.



AMES V5.X should then commence running, as indicated in the following screen shot.



Unless errors are found, AMES V5.X will continue to run for `MaxDay' simulated days. At the end of this simulation run, a test case data output file will be created in the `data/outputFiles directory; see the illustrative screen shot below.

