**MI\_IntradayData\_OracleSQLExcel**

MI is the Intraday Market (i.e. Secondary Market) Exchange of the Power Market in Italy. The Day-Ahead market is called MGP. MI is divided into seven sessions (MI1...MI7) where one can bid (buy) or offer (sell) into the market to adjust or improve his/her position. Some of the MI sessions for the Delivery Day D+1 (D is the today date) take place also the day before (D). The MI1 as the first intraday session which comprises all hours of the day to bid or offer is one of them that take place the day before.

Instructions:

Step 1a: Bid Offers\_20170823.xlsx is an MI fictitious file that one downloads from the Italian exchange platform (IPEX) and shows all the accepted and non-accepted bids and offers for all units you have made a bid/offer. 20170823 is the Delivery Day D+1. Therefore, when one wants to test the MI\_IntradayData\_OracleSQLExcel.xlsm file, he should modify the Filename date to D+1 following the format of YYYYMMDD. For ex. assume today’s date is the 3rd of February 2018 (i.e. 20180203). The Delivery Day D+1 would be the 4th of February 2018 (i.e. 20180204). Thus for testing purposes, Bid Offers\_20170823.xlsx filename should be modified to Bid Offers\_20180204.xlsx. Bid Offers\_YYYYMMDD.xlsx should be placed on the folder indicated on Sheet Settings. Default is C:\.

Step 1b: Fill in the rest of the values (Cells with light blue interior) needed (i.e. Oracle admin is mandatory) on Sheet Settings.

Step 1c: Via the Ribbon Tab, select the delivery date and MI market you would be retrieving from and wish to upload them on your Oracle and Excel Database. No need to use the Ribbon tab for the test file (Step 1a).

Step 2: Double click at Cell O1 (Q.tà acc.) on Sheet MIQty.

Step 2 button does the following procedures:

a) Retrieves the header and body values from the Bid Offers xlsx file to the ExcRes worksheet

b) Copy and pastes data columns needed from ExcRes to the MIQty worksheet

c) From MIQty worksheet, values are checked, inserted and elaborated on worksheet Database, Oracle and Sheet to upload your values at the Oracle SQL table IPEXUNITS and create your archived MI excel file (i.e. MI\_20180823) on the folder indicated on Sheet Settings.

Notes: MI purchased value is denoted with a negative sign (ex. -4) and MI sold value is denoted with a positive sign (ex. 4).

On modSQL.txt you can find all the SQL codes needed to create the SQL table, procedure and view to enable you upload your values at the SQL database. I did not create a VBA macro to create at least the table and procedure automatically. However, it could be done also manually if a software sql developer has been installed at your PC. All codes again are on the text file. Username (UTENTE), table name and columns can be modified. If columns get modified, the same columns should be modified at the module mod\_2a\_Oracle on MI\_IntradayData\_OracleSQLExcel.xlsm file.