

EFFECT Model - Quick Start Guide

Important | This model is designed for Microsoft Excel 2007.

The model uses up to 350 Mb of memory for Excel. If your computer does not have sufficient RAM or you have other memory intensive programs running, the model may seem to “hang.” Symptoms include a “white” screen, an “hourglass” cursor, and no apparent activity for prolonged periods of time. This is because Windows is using hard-disc based virtual memory that can be exceedingly slow. Please allow the model time to handle this (and then shut down other memory consuming applications).

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How to Install

1. Copy the enclosed "EFFECT" folder to anywhere on your hard drive
2. This folder should contain an Excel file "START_EFFECT_Model " and a folder "Templates"
3. The "Templates" folder will contain 9 Excel files and the EFFECT_Help folder:
 - a. Agriculture.xlsm
 - b. Emissions factors.xlsm
 - c. General.xlsm
 - d. Households.xlsm
 - e. Industry.xlsm
 - f. Nonresidential.xlsm
 - g. Power.xlsm
 - h. Summary.xlsm
 - i. Transport
4. The EFFECT_Help folder will contain one file (EFFECT_HelpStructure.xml) and a “files” folder containing auxiliary files.
5. You will also have this file “ReadMeFirst - Model Quick Start Guide.docx” which you are currently reading
6. You will need to have Microsoft Excel 2007 or more recent installed on your computer. This cannot be a trial version.

If any of the aforementioned files are missing or damaged do not continue.

How to Configure

This model uses Visual Basic extensively and Excel must be setup to allow the macros to run. To do this:

1. Open Excel
2. Open Excel home menu (round button on top left corner of screen)
3. Select "Excel Options" at bottom of drop-down
4. Select "Trust Center" in left-hand list
5. Select "Trust Center Settings" at bottom right of options
6. In Trusted Locations Select "Add a New Location"
7. In the Browse window, select the folder that contains the whole program, including the START_EFFECT_Model.xlsm file and all the scenario folders (e.g., C:\Documents\Model)
8. Check box for "Subfolders of this location are also trusted"
9. Make sure uncheck box for "Disable all Trusted Locations. Only files signed by Trusted Publishers will be trusted"
10. Click three "OK" buttons to return to Excel

This only has to be done once.

How to Start the Model

To Run

1. To start the model open the "START_EFFECT_Model.xlsm" file. A startup screen will appear. Click anywhere in the colored box to continue (**Figure 1**).

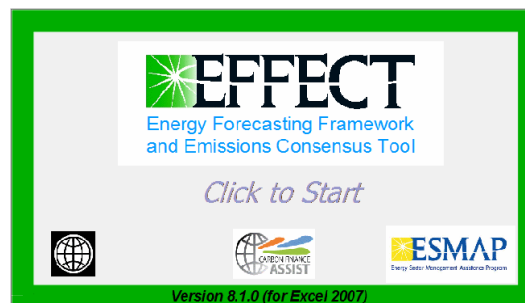


Figure 1 - Startup Screen

2. If no scenarios have been previously created, the model asks you to type in the name of the new scenario (**Figure 2**). Type the name for the new scenario in the box (for example "Run1"). Whatever appears in the box will be the name of the new scenario.

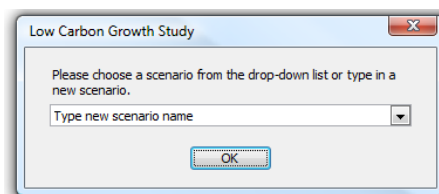


Figure 2 – New Scenario

3. If scenarios have been previously created, the model asks you to select one of the scenarios that already exist or create a new one (Figure 3). If you choose an existing scenario in the drop-down box the model will open that one for use. Otherwise, type a name for the new scenario in the box (for example "Run2").

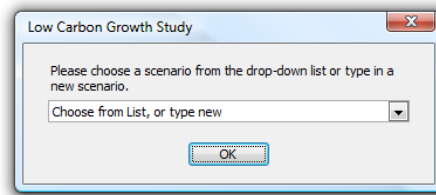


Figure 3 - Choose Scenario

4. The model will then ask if you want to create this new scenario (Figure 4). If you select the "No" button the model will end. On selecting "Yes", the model will add "EM_" to the name you choose (ie: EM_Run1) and create a new folder that will contain the new scenario.

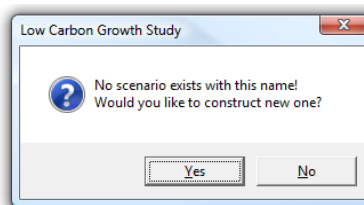


Figure 4 - Create New Scenario

5. The model will ask which existing scenario you want to use as a template for the new scenario (Figure 5). This allows you to build on previous work by creating an independent copy of another scenario for later modification. If you leave "Basic Template" in the drop-down box and select "OK" the model will copy the files in the "Template" folder into your new scenario.

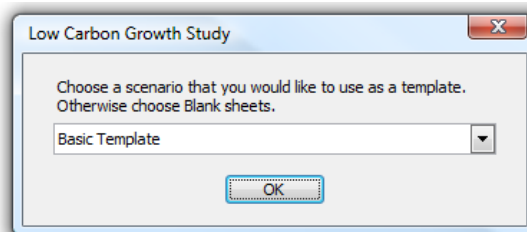


Figure 5 - Build on previous work

6. The model will ask if you are a programmer (Figure 6). If you answer "Yes" the model will keep all modules open and not save automatically. This requires more memory and thus may be slower unless the computer has sufficient capacity in RAM. The final version may password-protect this developer environment. If you answer "No" the model will save automatically and close each module when you open the next. This uses less memory but is not recommended if you are making structural changes to the model.

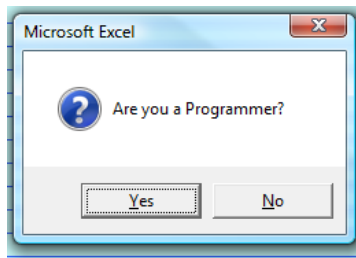


Figure 6 – Selecting Running Environment

- The model is menu driven. Access to the Menu is via the “EFFECT Model” tag on the Excel 2007 ribbon (Figure 7).

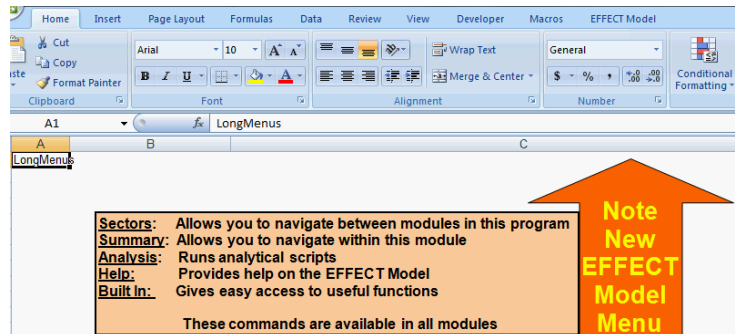


Figure 7 - Menu Driven

- This gives access to a ribbon with four sections that change in each module (Figure 8).

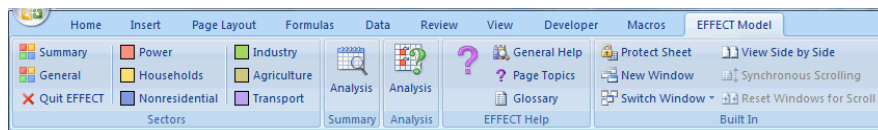


Figure 8 - Main Ribbon

- The left-hand part of the ribbon is the Sector Menu (Figure 9) that gives access to each of the modules in the model. It also contains the Quit button.

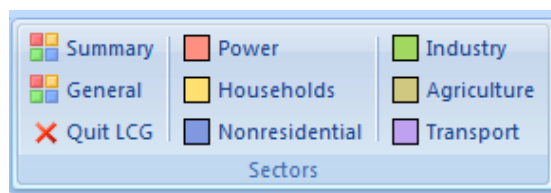


Figure 9 - Sector Menu

10. The next section of the ribbon helps you navigate within the module. The title and menu contents change according to the module that is currently active (see

11.
12.
13.). Clicking any option creates a drop-down list from which you can choose the desired option (

14.
15.

16. **Figure 11).**

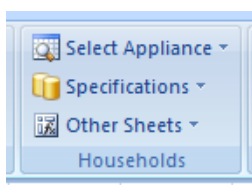


Figure 10 - Navigation within the Module

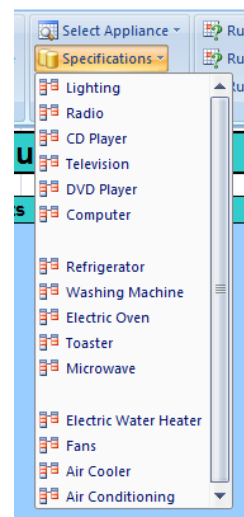


Figure 11 - Navigating within the module

17. The third section of the ribbon gives access to the analytical routines in that module.

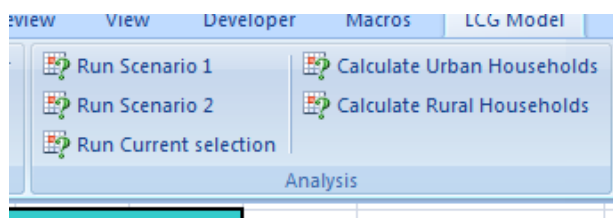


Figure 12 - Analytical Options

18. The next section lets you access the EFFECT model's specific help functions. (**Figure 13**)

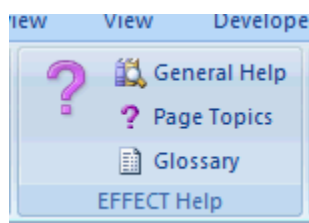


Figure 13 - Help functions

19. Lastly there is a section that provides access to some of Excel's built-in routines that are particularly useful in analyzing the results of a series of scenario runs (**Figure 14**)

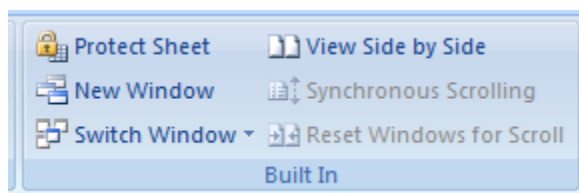


Figure 14 - Access to Built-in Functions

How to Stop the Model

The left-hand part of the ribbon is the Sector Menu (**Figure 15**) that gives access to each of the modules in the model. It also contains the Quit button.

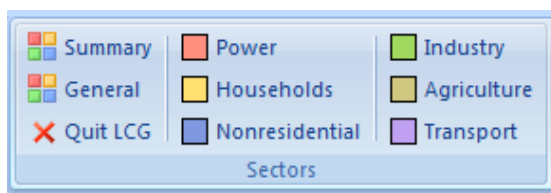


Figure 15 - Sector Menu

Clicking on the Quit LCG button will close the model. All sheets are automatically saved.