

## Data and code used for paper “Simulator testing of evacuated flat plate solar collectors for industrial heat and building integration”. (Solar Energy).

### General note about code and data:

- (1) Collector test results have been saved as a structure in a Matlab file (effectively a small database) FMtests.mat (FM=February-March, originally), also summarised in an Excel sheet. Each test typically lasted most of a day and is split into sub-sections (“parts”) for each condition, e.g. illumination level. Each part was curve-fitted to remove noise and obtain mean or end-point values for temperature, heat flux etc, e.g. part(2).ifit(3)....

The structure in FMtests.mat is written and read using the function `savepoint`.

- (2) Raw data files are included in ./Data for completeness but are unlikely to be useful: the initial generation of the values in FMtests.mat was a painstaking and time-consuming task. Each data file such as RWM160609c.mat (third data file on 9/6/2016) is analysed by a script file e.g. test 160609c2.m (“2” is just latest version). These script files are designed to be run in sections (highlight & evaluate).

For odd little files, the “Find files” option in the Matlab editor may be helpful to show what calls them.

### Figure 1.

- fig\_se\_1 EFP cross section 2.pptx

### Figure 2.

- (a) P1010138.jpg
- (b) P1010274.jpg

### Figure 3.

- (a) P1010010.jpg
- (b) Fig 3 EFP test schematic.pptx

### Figure 4.

- (a) P1010007.jpg
- (b) P101097.jpg

### Figure 5.

- Fig\_se\_5.m
- Fig\_se\_5.fig

### Figure 6.

- Fig\_se\_6.m
- Fig\_se\_6.fig

**Figure 7.**

- Fig\_se\_7.m
- Fig\_se\_7.fig

**Figure 8.**

- Fig\_se\_8.m
- Fig\_se\_8.fig

**Figure 9.**

- fig\_se\_9.m
- fig\_se\_9.fig

**Figure 10.**

- fig\_se\_10.m
- fig\_se\_10.fig

**Figure 11.**

- fig\_se\_11.m
- fig\_se\_11.fig