In this example synPRO residential electrical, room heating and domestic hot water load profiles were generated.

For the electrical part 4 different socioeconomic factors are present.

1. A family with 4 Persons
2. 2 Fulltime employees
3. 2 People over 65
4. 1 Person under 30

For the thermal part, two building types with each two different insulation standards were simulated.

1. Single Family House – passive house standard
2. Single Family House – build between 1979 and 2001
3. Multi Family House – passive house standard
4. Multi Family House – build between 1979 and 2001

For each of the thermal settings a domestic hot water and room heating profile was simulated.

Those profiles can either be used individually or combined so that 2 full data triples can be created:

1. Electric profile for the family with 4 persons combined with a DHW and a heating profile for a single-family house.
2. All 4 electric profiles together with the DHW a heating profile for a multi-family house

For information on the specific files please read the headers.

If questions occur contact synpro@ise.fraunhofer.de