**High Consumption Desired Efficiency scenario description:**

This scenario combines the HighConsumption and DesiredEfficiencyTrend scenarios to explore the impacts of higher ownership and usage combined with better efficiencies. Its inputs are as described below.

* Appliance ownership, number of appliance instances, appliance usage are taken from High Consumption scenario.
* Appliance stock and flow are similar to High Consumption, but the shift to higher efficiency appliances (for refrigerators and ACs) is on the lines of DesiredEfficiencyTrend. Thus, they are slightly different from the HC scenario.
* SEC related inputs are based on DesiredEfficiencyTrend scenario but using the stock-flow numbers from this scenario.
* The exogenous input for OtherResElec demand is modelled to reflect the impact of both High Consumption and Desired Efficiency Trend. Since these two effects counteract each other, the growth rate of RES\_OTHER demand is assumed to be 5% higher than in the default case (corresponding to 15% higher in HighConsumption and 10% lower in DesiredEfficiency).

**Scenario specific source data files:**

* D\_RES UsagePenetration.xlsx [same as High Consumption]
* NumInstances.xlsx [same as High Consumption]
* ReferenceTemperatures.xlsx [same as High Consumption]
* Res-non-cooling-service-demand.xlsx [same as High Consumption]
* Res-cooling-service-demand (1-Load-shifting).xlsx [same as High Consumption]
* Res-cooling-service-demand (2-Parameter prep).xlsx [same as High Consumption]
* Res-ST-stock-flow-TSR-ELS.xlsx [similar to High Consumption but with faster shift to more efficient appliances as in DesiredEfficiencyTrend]
* Res-ST-SEC.xlsx [based on DesiredEfficiencyTrend but with stock-flow from the above file]
* OtherResElecDemand.xlsx [as described above]