Exercise 1 - STREAM Light

The STREAM Light sheet in the Flow Model gives you a quick overview of the combined energy system. The tasks below will take you through the basics of the sheet.

For each task below start with an original sheet and **save with a different name**.

In the "*2050 Scenario*" check the effect on changes within:

- Fuel consumption vs. potentials
- CO2 emissions
- Costs

1. Increase economic growth in the industrial sector to 2.5%. What are the effects?
2. Increase the price on coal to 7 €/GJ in the 2050 Scenario. What are the effects?
3. Implement yearly savings of 2% in the residential sector in the 2050 Scenario. What are the effects?
4. Increase the production of electricity from onshore wind to 23% in the 2050 Scenario at the expense of electricity from coal. What are the effects?
5. Decrease the DH boiler production to 50% in the 2050 Scenario and increase the production from geothermal energy similarly. What are the effects?
6. In the transport sector increase the share of passenger transportation by car to 50% in the 2050 Scenario at the expense of bus transportation. What are the effects?
7. Increase the share of electricity used for trains to 100% in the 2050 Scenario. What are the effects?