**Seminar 2**

1. **Information**

Date & Format:

- Presentation 12.04.2024 09:00-12:00 (Friday during the lecture hours)

**Seminar:**

Here you will present what you found to all your classmates and the teaching staff, including guest lecturer Carine Lausselet. You will be presenting for about 10 min. The presentation is not graded, however, it is an important moment for your project as you will have the opportunity to ask questions too and get feedback from everyone present. It will also be helpful for you to have a look at the issues faced by other groups and how they solved them.

**Content of Seminar 2:**

Each group will have 10 minutes for the presentation, followed by about 5 minutes of discussion/feedback. The following topics should be covered during the presentation.

• Background (1 slide) – remind us of your work Possible topics:

• Country context/Research questions

• Challenges/unique features uncovered in Seminar 1

• Methods (1-2 slides): Model development (focus on energy use)

• Calibration and validation (1-2 slides)

• Scenarios (2-3 slides): Storylines and modeling, Energy results and interpretation

• Conclusions and outlook (1 slide): Robustness, conclusions, limitations, policy implications

Note: make clear and professional-looking graphs!

**Deliverables:**

- Thursday 11th 10pm: upload your presentation (12 slides maximum). Name it as

groupXX\_seminar2.pd

**2. Methods**

**3. Calibration and validation**

**4. Scenarios**

**1st scenario:** Business as usual.

**2nd scenario:** By 2030, the emissions from UK homes need to fall by at least 24% from 1990 levels to meet the UK’s ambitious goal, which is reaching net-zero emissions.

The predicted total energy demand for the UK residential building stock for the year 2022 is 37.7 MTOE, and the carbon emissions estimation is 65.33 MtCO2e. The energy-saving potential is 87%, and carbon reductions are about 76%, considering all the steps of renovation applied. It has been demonstrated that the step that provides the biggest savings across the housing stock is the one that involves replacing windows, draught-proofing, and installing mechanical ventilation with heat recovery.