

# D.T3.2.6 OPEN LESSONS FOR BEHAVIOURAL CHANGE - COUNTRY REPORT

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Poland

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Republic of Poland





## 1. Introduction

Behavioural change is an important aspect of a building renovation, as it allows to not only save energy in areas not covered by the restoration, but also enable to sustain results achieved by improving the building construction. Behavioural changes aimed at energy savings have also many advantages. Their results can be seen very fast, contrary to the infrastructure upgrades which usually take months. Furthermore, they usually require small or even no investments. It is very likely that spill over effects will occur, triggering savings in other than targeted fields. A campaign focused on energy savings can provoke changes in areas such as water consumption or waste production and segregation. Spill over effect might have also a spatial dimension, leading to energy savings at home.

As a part of the FEEDSCHOOLS project, RIC PRO-AKADEMIA and City of Warsaw organised open lessons for behavioural change in all schools involved in the Pilots in Poland. The aim of the lessons was to increase awareness of the participants and show how they can save energy by implementing small and low- or no-cost measures. Lessons were targeted at both students and schools' employees (teachers, technicians, managers). This report summarises all events organised in Poland



## 2. Lesson 1

### 2.1. Date and place

05.11.2019, SP 340, ul. Lokajskiego 3, Warsaw

### 2.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
- 2) Workshop (tasks to be performed in groups):
  - a. Brainstorming about energy-consuming devices and energy losses at school.
  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 2.3. Photos







## 3. Lesson 2

### 3.1. Date and place

06.11.2019, SP 61, ul. Białobrzaska 27, Warsaw

### 3.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

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  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 3.3. Photos







## 4. Lesson 3

### 4.1. Date and place

07.11.2019, SP 341, ul. Oławska 3, Warsaw

### 4.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
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  - a. Brainstorming about energy-consuming devices and energy losses at school.
  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 4.3. Photos









## 5. Lesson 4

### 5.1. Date and place

13.11.2019, SP 378, ul. Bartnicza 8, Warsaw

### 5.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
- 2) Workshop (tasks to be performed in groups):
  - a. Brainstorming about energy-consuming devices and energy losses at school.
  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 5.3. Photos







## 6. Lesson 5

### 6.1. Date and place

18.11.2019, SP 77, ul. Samogłowska 9, Warsaw

### 6.2. Summary of the lesson

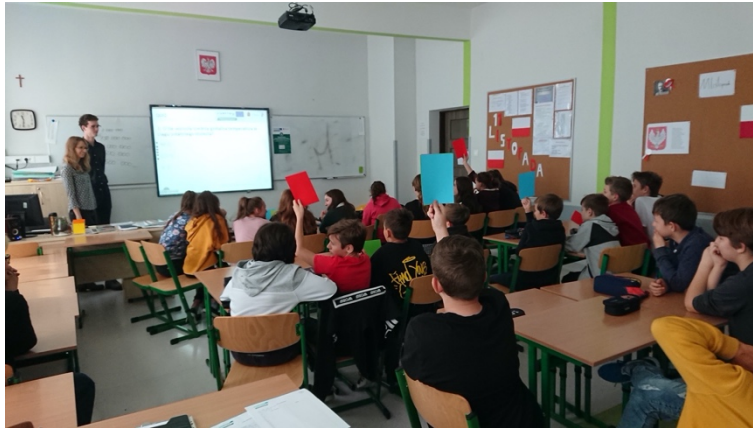
The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
- 2) Workshop (tasks to be performed in groups):
  - a. Brainstorming about energy-consuming devices and energy losses at school.
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  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 6.3. Photos







## 7. Lesson 6

### 7.1. Date and place

20.11.2019, SP 277, ul. Suwalska 29, Warsaw

### 7.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
- 2) Workshop (tasks to be performed in groups):
  - a. Brainstorming about energy-consuming devices and energy losses at school.
  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary



### 7.3. Photos





## 8. Lesson 7

### 8.1. Date and place

21.11.2019, SP 26, ul. Miedziana 8, Warsaw

### 8.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
- 2) Workshop (tasks to be performed in groups):
  - a. Brainstorming about energy-consuming devices and energy losses at school.
  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 8.3. Photos









## 9. Lesson 8

### 9.1. Date and place

29.11.2019, SP 28, ul. Gościeradowska 18/20, Warsaw

### 9.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. The main goal of the lesson was to shape pro-ecological attitudes by building awareness in the field of energy saving among primary school pupils. The students learned about different forms of energy, how it is used both at home and at school, why it is important to save energy, and how it can be conserved.

Agenda of the lesson:

- 1) Introduction to the topic of the lesson: what energy is, how we use it, why it should be saved.
- 2) Workshop (tasks to be performed in groups):
  - a. Brainstorming about energy-consuming devices and energy losses at school.
  - b. Discussion on environmental pollution and ecology.
  - c. Group competition: students divided into teams develop their own energy saving plans for their school, distinguishing between different carriers: electricity, heat and hot water.
  - d. Joint estimation of the amount of energy consumed in buildings and its cost.
- 3) Summary

### 9.3. Photos







## 10. Lesson 9

### 10.1. Date and place

03.12.2019, Warsaw

### 10.2. Summary of the lesson

The lesson was conducted by the Olaff Energy company. It was targeted to teachers and technical and administrative staff of schools. The main goal of the lesson was to raise awareness in the field of energy consumption in school buildings and importance of energy conservation.

Agenda of the lesson:

- 1) Structure of energy consumption and costs in public buildings, in particular in schools.
- 2) Energy efficiency and thermal comfort in buildings.
- 3) How to manage energy in public buildings.
- 4) Energy saving measures in schools that can be implemented by different groups (students, teachers, technical staff).

### 10.3. Photos



