

# PROGRESS REPORT

## About

2IMPRESZS will stimulate change in the current situation by fostering both behavioural and technical efficient energy saving measures in existing schools, reducing energy consumption and thus reducing CO<sub>2</sub> emissions. For the first time, this project will tackle the whole spectrum of energy efficiency measures—the behavioural, the technical and the financial approaches—rather than focusing on one specific field.

The implementation of the project's comprehensive transnational strategy will aim to reach 30% energy savings in 141 schools in the North Sea Region, representing an emission reduction of 7320 tonnes of CO<sub>2</sub> and will examine how to transform four schools into nearly zero-energy buildings.

By reaching schools and experts throughout the North Sea Region, 2IMPRESZS will be able to collect and share experiences but also develop an energy saving programme, compiling measures that are proven to be efficient in various settings. So far, 2IMPRESZS is reaching 57 schools in five countries.





## Project progress

### WP1 Project management

Since the start of 2IMPREZS, the partnership has organised three meetings. The first one took place in Geel (November 2017), the second in Berlin (March 2018) and the third in Southend-On-Sea (October 2018). Partners are cooperating and exchanging information through monthly Skype-meetings. These video conferences prevent long distance travelling and thus also prevent greenhouse gas emissions. Furthermore, a monitoring plan was created to ensure the smooth running of the project.

The responsible beneficiary of this Work Package (WP) is IOK.

### WP2 Communication activities

WP2 is divided into two axes. One is supporting partners in their local/regional communication activities. Therefore, all partners use the record of channels created by Elfi to communicate efficiently to their target groups. A bi-annual project newsletter composed by Elfi is also used to disseminate project activities and results. The other is using the project activities to disseminate results in the NSR and beyond. This dual approach (target groups/activities) is described in the joint communication plan. A mix of various communication channels (webpace, Facebook, Twitter, Instagram, LinkedIn) has been developed and is updated regularly. Partners provide input for these channels through event and news templates. Furthermore, four regional stakeholder events have already been held. Two events are planned.

The responsible beneficiary of this WP is Elfi.

### WP3 Energizing School Agents with the capacity 2IMPREZS

2IMPREZS has implemented and is testing the Dutch behavioural programme Energy Challenges. Each partner has adjusted this programme slightly to fit their needs and the regional context. Based on the findings, a joint energy saving method will be developed and disseminated in other schools.

- All partners have planned regular contact moments with schools to develop a tailor-made approach to save energy.
- 2IMPREZS partners have created a Key Performance Indicator spread sheet: energy usage data of all the schools involved will be collected. In this way, a baseline measurement can be established to keep an eye on the goal of the project.
- The partnership is comparing different systems to monitor the energy usage data.
- Preparations for implementing structural behavioural change among primarily students are underway. The first international 'Energy Challenges kick-off' on 25th January 2019 is being prepared in all partner countries.
- The partnership agreed on the same calendar dates for the kick off- and final-event. In this way, international exchange between students is possible. The ultimate dream of 2IMPREZS is to organise a physical meeting with all schools involved at the end of the project. In the meantime, all partners already encourage the schools to make use of the international aspect of the project, with the aid of E-Twinning. Through this cross-borders communication, a digital 2IMPREZS community will be built.

The responsible beneficiary of this WP is Energy Challenges Foundation.



## WP4 Energizing financial capacity and supporting 2IMPRES business models

WP4 has two main subjects: The Interactive Energy Optimization and Decision Model (IEODM) and the Nearly Zero Energy Buildings (NZEB).

All partners have delivered input regarding the barriers schools face preventing them from implementing energy-saving measures (lack of budget, lack of technical knowledge, etc.). Partners are also gathering info on both financing opportunities for schools wanting to implement energy saving measures and on energy audits in schools.

The first online prototype of the IEODM (E.Wattson - The Energy Detective™) is ready and was presented to all partners at the partner meeting in October 2018 in Southend. This is an online platform that will help stakeholders of the schools visualise the energy savings that are being delivered by participating schools and their pupils. It will contain important information regarding how pupils can reduce their schools' energy usage. The next step is to test and upgrade the IEODM (E.Wattson - The Energy Detective™). The IEODM (E.Wattson - The Energy Detective™) will be made kids-friendly through an attractive, user-friendly interface and via a mascot called E.Wattson - The Energy Detective™.

The responsible beneficiary of this WP is Southend-Borough Council and Mads Clausen Institute.

### Progress per country



### Flemish partners

Together with Flemish partners (Province of Antwerp, IGEMO, MOS, Djapo, Thomas More) IOK made agreements on how to organise the Energy Challenges in Flanders. Furthermore, there were lots of contacts with interested schools: 38 schools will participate. 21 of these schools will start in school year 2018-2019, 17 schools will start next school year.

The Flemish partners offer a one- or two-year project support to the participating schools. This support involves a technical and educational trajectory.

Eight stepping stones were developed. These describe the process the school will go through. These eight stepping stones contain topics like identity, knowledge and skills, plan, compare, measure, exchange, show and take action. Thanks to the stepping stones each school gets its own dynamic impression of the process they are taking.



### Danish partners

The Mads Clausen Institute is running a pilot of a workshop package in the local high school Sonderborg Statsskole. This workshop package exists of 4 workshops. As technology partner, the Mads Clausen Institute presented the first version of the IEODM at the partner meeting in October 2018. The IEODM is developed by the MCI in cooperation with Southend-on-Sea Borough Council.



House of Science had a successful approach in 11 schools so far. The success is reached by several meetings with headmasters, teachers and students. At first there was some scepticism, but now 2IMPRESZ activities are anchored in the student board or in a student energy crew which schools can create. Energy usage data is collected and became a part of regular teaching material.

The Danish partners had a lot of contacts with interested schools, which already results in the participating of 13 schools so far.



### German partner

Elfi has reached a lot of interested schools by a bottoms up approach: 5 schools confirmed their participation in Energy Challenges. Their goal is to reach 15 schools by next year. The next step is to contact the confirmed schools for collecting their energy data.



### Dutch partner

Energy Challenges is a Dutch concept and is an established campaign! In the past 6 years over 150 schools participated in the Netherlands. Energy Challenges adds new assignments for the International Energy Challenges Competition to challenge the pupils to make an extra special campaign. Their goal is to have 12 schools in the running for next year!



### UK partner

Southend-on-Sea completed the design of the Energy Challenges project with the Young People's Trust for the Environment to test with 10 schools during the 2018/2019 academic year. They also completed the pilot year with Chalkwell Hall Junior School and received excellent feedback. Furthermore has Southend-On-Sea Borough Council presented the first version of the IEODM at the partner meeting in October 2018 together with Mads Clausen Institute.