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| <b>INNOSTORAGE</b><br><b>IRSES-610692</b> |  | Deliverable number: | D7.2                     |
|   |  | Title:              | Report on Staff Exchange |

**INNOSTORAGE – USE OF INNOVATIVE THERMAL ENERGY STORAGE FOR MARKED ENERGY SAVINGS AND SIGNIFICANT LOWERING CO<sub>2</sub> EMISSIONS**

Beneficiaries:




Partners:




**D7.2 - Report on Staff Exchanges**

|              | Name and Institution                                | Date       |
|--------------|---|------------|
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## 1 Objectives

## 2 Introduction

This is the last visit I am making according to INNOSTORAGE program. The main objective is to follow up our collaboration program and insure continuing collaboration beyond the end of the program in October, 2017

## 3 Description of work

I have discussed with Prof. Luisa Cabeza and Dr. Álvaro De Gracia Cuesta and other member of the research team the following issues related to past work and future work:


1. Through the discussion, we have managed to select a suitable project for Gohar Gholamibozanjani, PhD student from University of Auckland, to be conducted during her visit to University of Lleida in September and October, 2017. The project will be about smart control of energy system with active and passive thermal storage using black box analysis. It is highly linked to Gohar project but looking at peak load in different way.
2. Discuss the progress of INNOSTORAGE project and insure maximum commitment. The revised table of committed visit indicates that only one visit from Israel to New Zealand has not been made.
3. Edit the paper we have written on efficient cooling in microchannel using supercritical/subcritical CO<sub>2</sub>.
4. Met Dr. Pau Gallart-Sirvent, who has recently finished his PhD and wanted to do research in the area of PCM production from non-edible fat. Prof Luisa Cabeza attended the meeting and she applied for Marie Curie Fellowship to support his postdoc while he is in New Zealand.
5. Met Dr. Marc Medrano and discuss the details of the paper about energy (electrical and gas) usage and analysis in the different campuses of University of Lleida. This is related to his last visit to University of Auckland. He has promised to pass the manuscript to me in couple of weeks for revision.

## 4 Materials and Methodology

Will keep communicating by email and Skype to insure all above activities are finalised before the end of INNOSTORAGE program on 30 October, 2017.

## 5 Results

Please see section 3

|   |  |                     |                          |
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## 6 Outcomes or future work

1. Set a visit for one PhD student from University of Auckland (Gohar Gholamibozanjani) to work during the months of September and October at University of Lleida.
2. Ensure the continuation of our collaboration by arranging some time to spend at University of Lleida during my research leave early next year.
3. Finalise a paper we have written jointly about cooling in microchannel.
4. Invite Dr. Pau Gallart-Sirvent to come to University of Auckland to work on production of PCM from non-edible materials.

## 7 References

## 8 Assessment

My this and previous visits to University of Lleida always show great positive outcomes since the research leader and team are strong and well-organised and we are both working very closely on energy storage.