


<b>INNOSTORAGE</b> <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:




**D7.1 - Report on Staff Exchanges**

	Name and Institution	Date
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**Contents**

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

1	Objectives.....	3
2	Introduction .....	3
3	Materials and Methodology.....	3
4	Results .....	3
5	Outcomes or future work.....	3
6	References.....	4
7	Assessment.....	4

INNOSTORAGE IRSES-610692		Deliverable number:	D7.2
		Title:	Report on Staff Exchange

## 1 Objectives

## 2 Introduction

This is the first and last visit I am making according to INNOSTORAGE program. The main objective is to consolidate the existing ties of collaboration between UDL and UniSA within program and insure continuing collaboration beyond the end of the program in October, 2017

## 3 Description of work

I presented my work to date on the optimal control of energy storage systems. We have discussed the potential for collaborating with Dr. Álvaro De Gracia Cuesta other members of the research team on the optimal control of thermal storage to minimise cost of electrical energy for residential properties in winter. The plan is to have the data collection occur over the coming winter months and then we will use our methods to co-author some papers comparing different optimisation strategies and forecasting tools in order to make a selection for implementation.

## 4 Materials and Methodology


I will keep communicating by email and Skype to insure all above activities continue past the end of INNOSTORAGE program on 30 October, 2017.

## 5 Results

Please see section 3

## 6 Outcomes or future work

At this stage we are planning to conduct work to complement the local knowledge regarding the optimal control of a heat pump system when coupled with Thermal Energy Storage for winter heating, as the problem has parallels to our own cooling and refrigeration problems in Australia. Data sharing and joint publications are planned in the coming 3-6 months.

INNOSTORAGE IRSES-610692		Deliverable number:	D7.2
		Title:	Report on Staff Exchange

## 7 References

## 8 Assessment

This is my first visit to University of Lleida and has resulted in positive outcomes for ongoing collaboration with the strong and diverse team here with many opportunities for ongoing work regarding energy storage system operation.