

# **AU-Herning : EPRO 4 Renewable Energy System**

Project - Energy Hub

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**Executive summary**

**Preface**

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**Part I**

**Analysis**

# Chapter 1

## Introduction

## Chapter 2

### Problem statement

# Part II

## Realisation



## Chapter 3

# Material and methods

# Chapter 4

## Hardware design

### 1 Introduction

*By: NAME*

### 2 Power line and switch mode

*By: Dennis Madsen*

### 3 Power switch

*By: Paulo Fontes*

### 4 Interface

*By: Dennis Madsen*

# Chapter 5

## Digital design

### 1 Introduction

*By: Theis Christensen*

### 2 LPC2478 to spartan 6 interface

*By: Theis Christensen*

#### 2.1 External memory controller

#### 2.2 Bus functional module

#### 2.3 Wishbone

### 3 Module design

*By: Theis Christensen*

#### 3.1 Design

#### 3.2 Indicator

#### 3.3 Interrupt register

#### 3.4 Interface

# Chapter 6

## Software design

### 1 Introduction

*By: Dennis Madsen*

### 2 Device drivers

*By: Dennis Madsen*

### 3 Kernel setup

*By: Dennis Madsen*

### 4 Das U-Boot

*By: Dennis Madsen*

# Chapter 7

## Web design

### **1 Introduction**

*By: Paulo Fontes*

### **2 Server setup**

*By: Paulo Fontes*

### **3 Database**

*By: Paulo Fontes*

### **4 File structure**

*By: Paulo Fontes*

# **Part III**

## **Recapitulation**

## Chapter 8

## Conclusion

## Chapter 9

# Discussion



## Chapter 10

# Process evaluation

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# Part IV

## Appendix

Appendix A

Project 4

# Appendix B

## two