

## **DOMINOES – DELIVERABLE**

# **D7.2 Detailed Project Management Plan Release 1**

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Work Package: WP7

Lead Beneficiary: Empower

Contributing Beneficiaries: All

Reviewer(s): -

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<sup>1</sup> **Nature:** R = Report, P = Prototype, D = Demonstrator, O = Other  
**Dissemination level** PU = Public  
PP = Restricted to other programme participants (including the Commission Services)  
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## EXECUTIVE SUMMARY

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Version	Date	Description
0.1	22.11.2017	Initial version by Empower
0.2	27.11.2017	Changes after review
1.0	27.11.2017	Final version

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## **Executive Summary**

This report will be a key part of DOMINOES project coordination activities ensuring efficient and timely execution of the project. Project has started 10/2017 and the duration will be 42 months. Project is planned to be ready 03/2021.

In the first chapter we introduce project structure with respect to the work packages and project schedule overview in the form of Gantt chart. In the second chapter task dependencies are presented. In the third chapter detailed schedule, responsibilities and Work Breakdown Structure (WBS) is presented per Work Package (WP). Last chapter presents project milestones.

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## List of Acronyms

CNET	Centre for New Energy Technologies, S.A. – Portugal
D	Deliverable
DR	Demand Response
DSO	Distribution System Operator
EC	European Commission
EDPD	EDP Distribuicao Energia SA – Portugal
Empower	Empower IM Oy – Finland
EU	European Union
ICT	Information and Communications Technology
ISEP	Instituto Superior de Engenharia do Porto – Portugal
KPI	Key Performance Indicator
LUT	Lappeenrannan Teknillinen Yliopisto – Finland
M	Month
P2P	Point to Point
PV	Photovoltaics
R&D	Research & Development
RES	Renewable Energy Source
T	Task
TSO	Transmission System Operator
USE	Universidad de Sevilla – Spain
VPP	Virtual Power Plant
VPS	Virtual Power Solutions Limited – United Kingdom
QUB	The Queen's University of Belfast – United Kingdom
WBS	Work Breakdown Structure
WP	Work Package

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# 1 Project structure and schedule overview

In this chapter the project structure and schedule overview is presented.

## 1.1 Project structure

The DOMINOES project is divided into seven work packages (WP):

- WP1 will define the requirements (both business and technical) and reference system architecture for the local energy market concept. The reference architecture will ensure that all the relevant stakeholders, business domain features and technical boundaries will be met.
- WP2 will design the actual local marketplace and develop a first implementation of the actual local market based on the WP1 requirements.
- WP3 will develop new demand response and aggregator services enabled by the local energy markets.
- WP4 will carry out validation of both the developed market structures and the demand response services.
- WP5 will analyse and develop local market enabled business models and market integration, which will run in parallel with WPs 1-4. Special attention will be given to Distribution System Operators (DSO's) operations and what kind of new business models can local community markets provide to DSO's.
- WP6 will plan, conduct and monitor the dissemination, standardization, regulation and exploitation activities. WP6 will have a continuous interaction with the other WPs in order to identify the needs for WP6 work.
- WP7 will provide the project the management and coordination activities required to execute the work efficiently and with high quality results.

Figure 1 Project structure (WP's) presents the overall project structure with respect to the work packages.

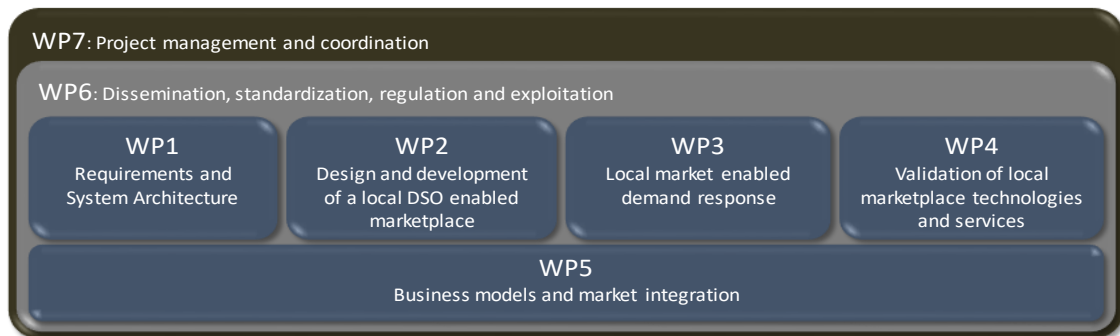


Figure 1 Project structure (WP's)

# PROJECT STRUCTURE AND SCHEDULE OVERVIEW

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## 1.2 Project schedule overview

Project has started 10/2017 and the duration will be 42 months, which provides an adequate time window to deliver feasible results. Project is planned to be ready 03/2021.

Figure 2 Project schedule overview – Gantt displays the Gantt chart illustrating the overview of scheduling of the WP's, scheduling of tasks within the work packages, deliverable deadlines related to tasks and project milestones. Detailed excel version will be up to date and it can be found from project sharepoint site: `\Documents\02 Project management\ DOMINOES_GANTT chart_<version>.xlsx`

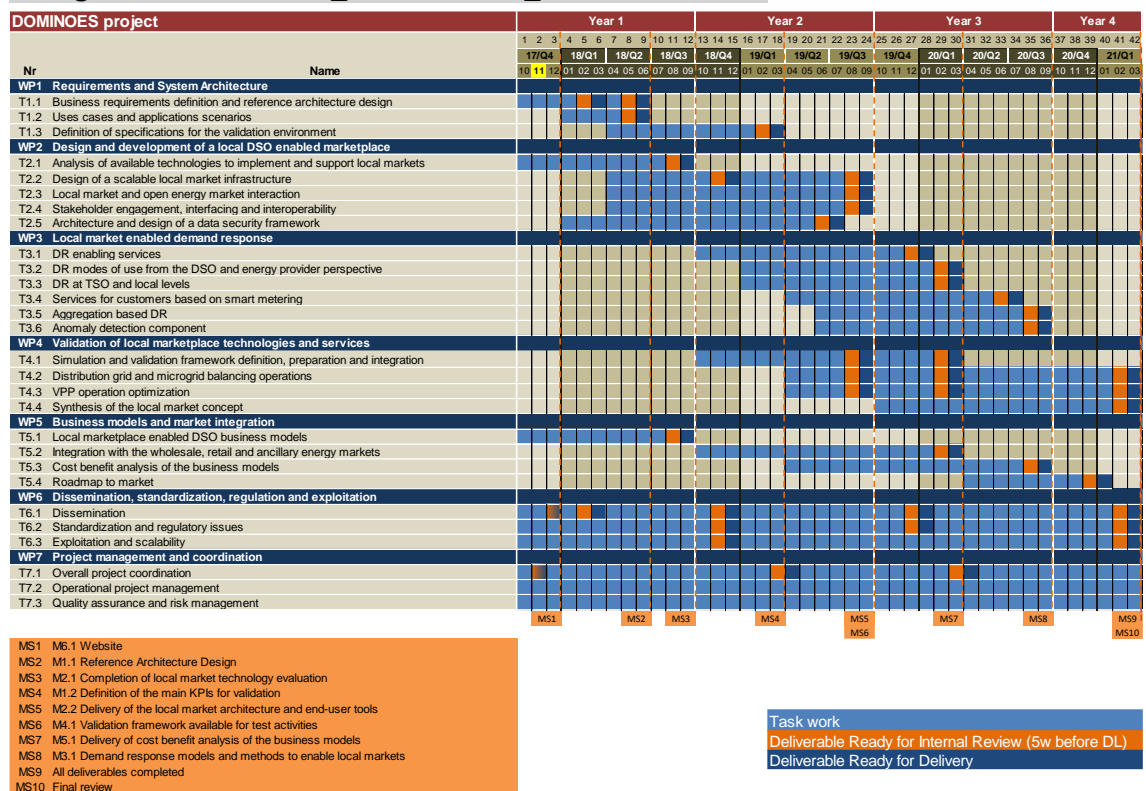


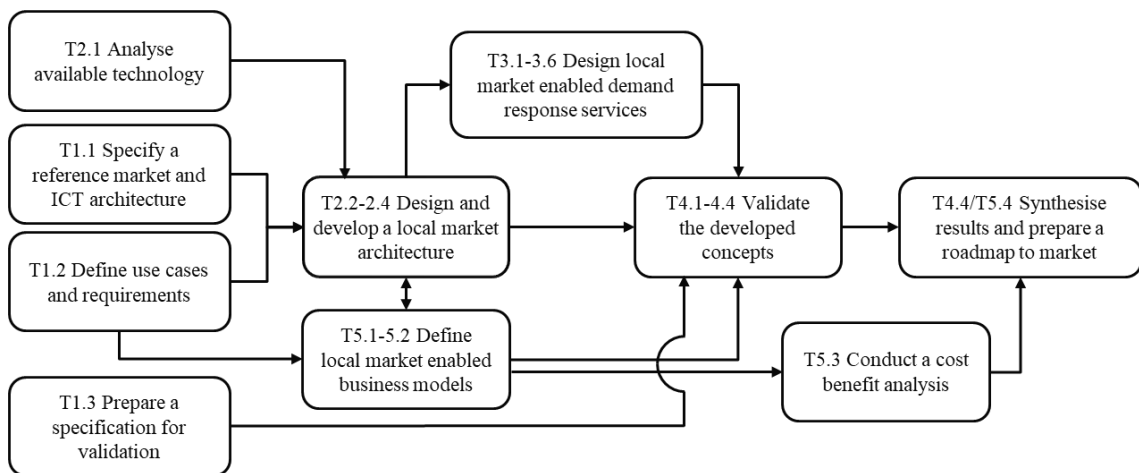
Figure 2 Project schedule overview – Gantt

## 2 Task dependencies

In this chapter task (T) dependencies are presented.

Figure 3 Task dependencies provides a graphical presentation of the key components of the project showing how they interrelate. The figure highlights task interaction and it does not take into account time schedules, which are elaborated later. Likewise, the figure is missing dissemination, standardization, exploitation and management activities, which support the other components throughout the project delivering inputs and collecting outputs.

First tasks in the project are related to analysing, defining and specifying the technologies, use cases, requirements and architecture for the local market (T1.1, T1.2, T1.3, T2.1 and T5.1). Then project will continue with local market design and development parallel with business models (T2.2-2.4, T5.1-5.2 and T3.1-3.6). Then project will validate the developed concepts in three validation sites (T4.1-4.4), conduct a cost benefit analysis (T5.3) and after that results are documented (T4.4/T5.4).



**Figure 3 Task dependencies**



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### 3 Detailed schedule, responsibilities and WBS

In this chapter schedule, responsibilities and Work Breakdown Structure (WBS) is presented per Work Package (WP).

Overview of schedule is presented in chapter 1.2 and in this chapter schedule and WBS per WP is presented. Detailed excel version will be up to date and it can be found from project sharepoint site: `\Documents\02 Project management\ DOMINOES_GANTT chart_<version>.xlsx`

#### 3.1 WP1 Requirements and System Architecture

*Start month:* M01 (10/2017)

*End month:* M18 (03/2019)

*Leader:* VPS

The key objectives for the WP1 are:

- Review main business barriers and needs to the implementation of local energy markets
- Definition of main business uses cases and corresponding requirements
- Outline the reference system architecture based on the identified requirements and data flows
- Establish a methodological framework for the validation process and KPIs update

Figure 4 WP1 schedule presents the overview of the WP1 schedule. Detailed excel version will be up to date and it can be found from project sharepoint site: `\Documents\02 Project management\DOMINOES_GANTT chart_<version>.xlsx`

DOMINOES project			Year 1												Year 2											
Nr	Name	Leader	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			17/Q4	18/Q1	18/Q2	18/Q3	18/Q4	19/Q1	19/Q2	19/Q3																
			10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09
<b>WP1</b>	<b>Requirements and System Architecture</b>	<b>VPS</b>																								
T1.1	Business requirements definition and reference architecture design	Empower																								
D1.1	Local market reference architecture and business requirements	Empower																								
D1.2	ICT platform and connected energy network reference architecture design	VPS																								
T1.2	Uses cases and applications scenarios	USE																								
D1.3	Use cases and application scenarios requirements	USE																								
T1.3	Definition of specifications for the validation environment	CNET																								
D1.4	Implementation plan for the validation environment	CNET																								

**Figure 4 WP1 schedule**

In following chapters start month, end month, task leader, task participants, deliverable(s) and description are presented per task.

#### 3.1.1 T1.1 Business requirements definition and Reference Architecture Design

*Start month:* M01 (10/2017)

*End month:* M09 (06/2018)

*Leader:* Empower

*Task participants:* ISEP, LUT, QUB, VPS

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*Deliverables:* D1.1 Local market reference architecture and business requirements (M06)  
D1.2 ICT platform and connected energy network reference architecture design (M09)

This task will analyse the stakeholders, roles, responsibilities, dependencies and possible facilitators of the local market concept.

**3.1.2 T1.2 Use cases and requirements**

*Start month:* M04 (01/2018)  
*End month:* M09 (06/2018)  
*Leader:* USE  
*Task participants:* Empower, CNET, EDPD, ISEP, LUT, VPS  
*Deliverable:* D1.3 Use cases and application scenarios requirements (M09)

This task will define the use cases and requirements of the different solutions and scenarios to be tested, based on the business environment and architectures defined in task 1.1. The resulting requirements will be derived into technical and product specifications for the task 1.3.

**3.1.3 T1.3 Definition of specifications for the validation environment**

*Start month:* M07 (04/2018)  
*End month:* M18 (03/2019)  
*Leader:* CNET  
*Task participants:* EDPD, ISEP, LUT, USE, VPS  
*Deliverable:* D1.4 Implementation plan for the validation environment (M18)

This task aims to define the validation environment taking into account the business requirements and the reference architecture (T1.1) and the use cases defined for the project (T1.2). This task will provide the necessary inputs for the validation activities taking place in WP4.

**3.2 WP2 Design and development of a local DSO enabled marketplace**

*Start month:* M01 (10/2017)  
*End month:* M24 (09/2019)  
*Leader:* Empower

The key objectives for the WP2 are:

- Analyse available technologies in order to design an implementable and open market compatible local market architecture.

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- To design and develop a local marketplace infrastructure that enables innovative distribution management activities. The infrastructure will include market structures and operation models.
- Create information exchange structures and models to enable seamless interaction of local, wholesale and retail markets.
- Design an open interface for stakeholders to take part in the local market transactions, setup services and contribute to market development.
- To develop the architecture and design of a data security framework for handling data acquisition, storage and transferring between operators in the local DSO marketplace platform.

Figure 5 WP2 schedule presents the overview of the WP2 schedule. Detailed excel version will be up to date and it can be found from project sharepoint site:

`\Documents\02 Project management\DOMINOES_GANTT chart_<version>.xlsx`

DOMINOES project			Year 1												Year 2											
Nr	Name	Leader	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			17/Q4	18/Q1	18/Q2	18/Q3	18/Q4	19/Q1	19/Q2	19/Q3																
WP2	Design and development of a local DSO enabled marketplace	EMPOWER	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09
T2.1	Analysis of available technologies to implement and support local markets	USE																								
D2.1	Enabling technology for transparent local p2p energy markets	USE																								
T2.2	Design of a scalable local market infrastructure	Empower																								
D2.2	Scalable local energy market architecture (first release)	Empower																								
D2.3	Scalable local energy market architecture (second release)	Empower																								
T2.3	Local market and open energy market interaction	LUT																								
D2.4	Information exchange processes and solutions between local and centralized energy market	LUT																								
T2.4	Stakeholder engagement, interfacing and interoperability	VPS																								
D2.5	Tools for local energy market and end-user interaction	VPS																								
T2.5	Architecture and design of a data security framework	QUB																								
D2.6	Design and implementation of a data security framework	QUB																								

**Figure 5 WP2 schedule**

In following chapters start month, end month, task leader, task participants, deliverable(s) and description are presented per task.

**3.2.1 T2.1 Analysis of available technologies to implement and support local markets**

*Start month:* M01 (10/2017)

*End month:* M12 (09/2018)

*Leader:* USE

*Task participants:* ISEP, VPS

*Deliverable:* D2.1 Enabling technology for transparent local p2p energy markets (M12)

This task’s objective is to identify the available technologies in the market, which meet local market requirements and specifications, as well as the needs to develop new components to achieve the marketplace concept.

**3.2.2 T2.2 Design of a scalable local market infrastructure**

*Start month:* M07 (04/2018)

*End month:* M24 (09/2019)

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*Leader:* Empower  
*Task participants:* CNET, ISEP, VPS  
*Deliverables:* D2.2 Scalable local energy market architecture (first release) (M15)  
D2.3 Scalable local energy market architecture (second release) (M24)

The objective of this task is to design and develop the required components and processes in order to establish a local marketplace.

**3.2.3 T2.3 Local market and open energy market interaction**

*Start month:* M07 (04/2018)  
*End month:* M24 (09/2019)  
*Leader:* LUT  
*Task participants:* Empower, CNET, EDPD, ISEP, USE  
*Deliverable:* D2.4 Information exchange processes and solutions to integrate local and centralized energy markets (M24)

The objective of this task is to conceptualize and examine the elements and processes of interaction between the local market and open energy market.

**3.2.4 T2.4 Stakeholder engagement, interfacing and interoperability**

*Start month:* M07 (04/2018)  
*End month:* M24 (09/2019)  
*Leader:* VPS  
*Task participants:* CNET, LUT  
*Deliverable:* D2.5 Tools for local energy market and end-user interaction (M24)

In this task, the interaction between the local markets and its end users will be studied. This complements tasks T2.2 and T2.3 where the local market structures and centralized market interaction will be developed.

**3.2.5 T2.5 Architecture and design of a data security framework**

*Start month:* M04 (01/2018)  
*End month:* M22 (07/2019)  
*Leader:* QUB  
*Task participants:* EDPD, VPS  
*Deliverable:* D2.6 Design and implementation of a data security framework (M22)

This task will define the global data security architecture.



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### **3.3.2 T3.2 DR modes of use from the DSO and energy provider perspective**

*Start month: M16 (01/2019)*

*End month: M30 (03/2020)*

*Leader: CNET*

*Task participants: Empower, EDPD, ISEP, LUT, USE*

*Deliverable: D3.2 Report on DR modes of use from the DSO and energy provider perspective (M30)*

This task will define the DR modes to be tested in DOMINOES.

### **3.3.3 T3.3 DR at TSO and local levels**

*Start month: M16 (01/2019)*

*End month: M30 (03/2020)*

*Leader: ISEP*

*Task participants: CNET, VPS*

*Deliverable: D3.3 Report on DR at TSO and local levels (M30)*

This task will have a close relation with T3.2 in order to specify the DR opportunities at different levels, also including the further players as aggregators, virtual power players, etc.

### **3.3.4 T3.4 Services for customers based on smart metering**

*Start month: M19 (04/2019)*

*End month: M34 (07/2020)*

*Leader: VPS*

*Task participants: EDPD, ISEP, LUT, USE*

*Deliverable: D3.4 Services for customers based on smart metering (M34)*

The main objectives of this task are: (a) Design easy to use consumption (load) management models that enable cost reductions for end consumers with flexible hourly tariffs and/or RES; (b) Offer a simulation tool for this service to promote the adoption of real-time tariff schemes and RES, PV in particular; (c) Develop a mechanism to enable consumers to advertise load management and excess generation capacity enabling their effective participation in energy sharing communities.

### **3.3.5 T3.5 Aggregation based DR**

*Start month: M21 (06/2019)*

*End month: M36 (09/2020)*

*Leader: Empower*

*Task participants: CNET, ISEP, USE, VPS*

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*Deliverable:* D3.5 Report on aggregation based DR (M36)

In this task the partners will study, design and develop services for aggregators utilizing the local market infrastructure.

**3.3.6 T3.6 Anomaly detection component**

*Start month:* M21 (06/2019)

*End month:* M36 (09/2020)

*Leader:* QUB

*Task participants:* EDPD, VPS

*Deliverable:* D3.6 Anomaly detection and implementation (M36)

In this task the testing tool for cyber-attacks detection will be developed.

**3.4 WP4 Validation of local marketplace technologies and services**

*Start month:* M13 (10/2018)

*End month:* M42 (03/2021)

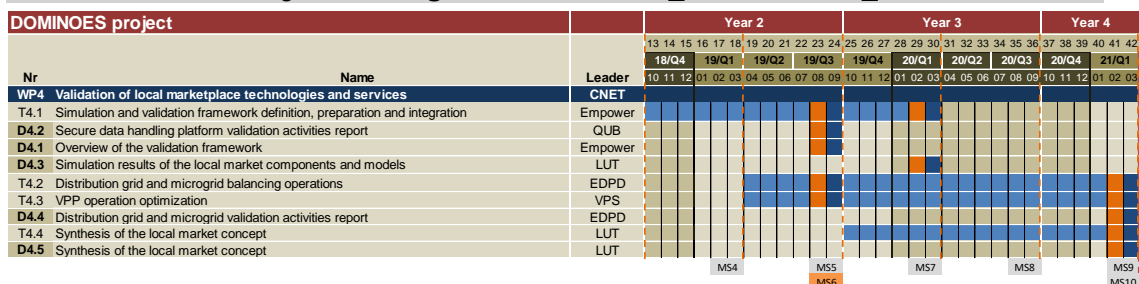
*Leader:* CNET

The key objectives for the WP4 are:

- Preparation and integration of the validation framework
- Validation of the technologies or processes designed and developed in the project
- Demonstration of the technologies developed in the project in a pilot site
- Define and collect the necessary data for the optimization and validation of the technologies
- Evaluate the results and make a synthesis of the key achievements of the project
- To validate the technical and economic feasibility of the proposed secure data handling infrastructure installed in the relevant environment.

Figure 7 WP4 schedule presents the overview of the WP4 schedule. Detailed excel version will be up to date and it can be found from project sharepoint site:

[\Documents\02 Project management\DOMINOES\\_GANTT chart\\_<version>.xlsx](#)



**Figure 7 WP4 schedule**

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In following chapters start month, end month, task leader, task participants, deliverable(s) and description are presented per task.

**3.4.1 T4.1 Simulation and validation framework definition, preparation and integration**

*Start month: M13 (10/2018)*

*End month: M30 (03/2020)*

*Leader: Empower*

*Task participants: CNET, EDPD, ISEP, LUT, USE, QUB*

*Deliverables: D4.1 Overview of the validation framework (M24)  
D4.2 Secure data handling platform validation activities report (M24)  
D4.3 Simulation results of the local market components and models (M30)*

This task includes a simulation of selected components/models of the local market concept. In parallel with the simulation, the partners will integrate all the required components in order to validate the desired project concepts.

Likewise, a complete framework will be prepared so that the validation of services and business models can be carried out in a relevant environment. Three separate framework environments have been identified and they include a distribution network, a microgrid and a virtual power plant constituting of distributed energy resources.

The partners will design methods how to validate the local marketplace developed in WP2 and the demand response/balancing services developed in WP3.

**3.4.2 T4.2 Distribution grid and microgrid balancing operations**

*Start month: M19 (04/2019)*

*End month: M42 (03/2021)*

*Leader: EDPD*

*Task participants: Empower, CNET, ISEP, LUT, USE, VPS*

*Deliverables: D4.1 Overview of the validation framework (M24)  
D4.4 Distribution grid and microgrid validation activities report (M42)*

In this task the partners will validate and demonstrate the processes and models developed in WP3 using the framework developed in WP2. These activities will be developed in validation sites (distribution grid, microgrid and Virtual Power Plant) which will have the needed characteristics for the validation of the Demand Response and balancing services, such as distributed generation, storage systems, existing prosumers with available flexibility and smart-metering infrastructure.



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### **3.4.3 T4.3 VPP operation optimization**

*Start month:* M19 (04/2019)

*End month:* M42 (03/2021)

*Leader:* VPS

*Task participants:* Empower, CNET, ISEP, USE

*Deliverables:* D4.1 Overview of the validation framework (M24)

D4.4 Distribution grid and microgrid validation activities report (M42)

The main focus of this task is the validation of Virtual Power Plant (VPP) operation built over heterogeneous environments that are composed of different control and communication technologies. This heterogeneity poses problems of common functionality, availability, synchronicity and optimization opportunities. Additionally, the work will include the validation of VPP operation of large scale distributed resources with mixed clients in opt-in and opt-out mechanisms and test the feasibility of implementing short-cycle demand response events with short time notice.

### **3.4.4 T4.4 Synthesis of the local market concept**

*Start month:* M25 (10/2019)

*End month:* M42 (03/2021)

*Leader:* LUT

*Task participants:* Empower, CNET, EDPD

*Deliverable:* D4.5 Synthesis of the local market concept (M42)

This task will define the relationship between the boundaries set to ensure the development of information exchange structures and models that will help enabling the interaction between local, retail and wholesale markets and propose how local markets should be taken into account in regulatory rules.

## **3.5 WP5 Business models and market integration**

*Start month:* M01 (10/2017)

*End month:* M40 (01/2021)

*Leader:* LUT

The key objectives for the WP5 are:

- To analyse opportunities for enhanced demand response schemes in the different electricity (local) market segments (generation, distribution, retailing and flexibility provision).
- To design innovative demand response business schemes that will empower service providers and prosumers to interact with the different local and wholesale electricity market segments and provide services for DSOs

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- To validate the business models by showing their value in providing proven and quantified benefits for the grid and the consumers / prosumers.

Figure 8 WP5 schedule presents the overview of the WP5 schedule. Detailed excel version will be up to date and it can be found from project sharepoint site: [\Documents\02 Project management\DOMINOES\\_GANTT chart\\_<version>.xlsx](#)

DOMINOES project			Year 1				Year 2				Year 3				Year 4																																												
Nr	Name	Leader	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42															
			17/04	18/01	18/02	18/03	18/04	19/01	19/02	19/03	19/04	20/01	20/02	20/03	20/04	21/01	21/02	21/03	21/04	22/01	22/02	22/03	22/04	23/01	23/02	23/03	23/04	24/01	24/02	24/03	24/04	25/01	25/02	25/03	25/04	26/01	26/02	26/03	26/04	27/01	27/02	27/03	27/04	28/01	28/02	28/03	28/04	29/01	29/02	29/03	29/04	30/01	30/02	30/03	30/04	31/01	31/02	31/03	31/04
<b>WP5</b>	<b>Business models and market integration</b>	<b>LUT</b>	[Gantt bars for WP5 tasks]																																																								
T5.1	Local marketplace enabled DSO business models	ISEP	[Gantt bar for T5.1]																																																								
D5.1	Formulation of alternative local market place enabled business models	ISEP	[Gantt bar for D5.1]																																																								
T5.2	Integration with the wholesale, retail and ancillary energy markets	LUT	[Gantt bar for T5.2]																																																								
D5.2	Integration scenario on wholesale, retail and ancillary energy markets	LUT	[Gantt bar for D5.2]																																																								
T5.3	Cost benefit analysis of the business models	CNET	[Gantt bar for T5.3]																																																								
D5.3	Cost benefit analysis of the business models	CNET	[Gantt bar for D5.3]																																																								
T5.4	Roadmap to market	Empower	[Gantt bar for T5.4]																																																								
D5.4	Roadmap to integrated energy market operation and management	Empower	[Gantt bar for D5.4]																																																								

**Figure 8 WP5 schedule**

In following chapters start month, end month, task leader, task participants, deliverable(s) and description are presented per task.

**3.5.1 T5.1 Local marketplace enabled DSO business models**

*Start month:* M01 (10/2017)

*End month:* M12 (09/2018)

*Leader:* ISEP

*Task participants:* Empower, CNET, EDPD, LUT, VPS

*Deliverable:* D5.1 Formulation of alternative local market place enabled business models (M12)

This task explores alternative business models for the efficient use of distributed energy resources in local energy communities. The task will include the definition of processes and stakeholders in transactive energy exchanges to address local constraints, as identified and specified in WP1 and WP2.

This task also addresses the definition of contracts (static and dynamic, whose conditions depend on the actual context) required to potentiate market based local energy communities, considering the strategic vision from WP1. The strategic use of contracts for third party resources in line with the models defined in WP2 will also be targeted.

This task is also in close connection with WP3 to provide the guidelines for the innovative means for enhancing consumer participation and incentivizing flexibility services. The developed business models will take into account the current regulatory and market framework at the EU level.

**3.5.2 T5.2 Integration with the wholesale, retail and ancillary energy markets**

*Start month:* M13 (10/2018)

*End month:* M30 (03/2020)

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*Leader:* LUT

*Task participants:* Empower, CNET, EDPD, ISEP, USE

*Deliverable:* D5.2 Integration scenario on wholesale, retail and ancillary energy markets (M30)

This task explores the potential of the local marketplace concept and the corresponding demand response interface solutions in creating alternative business models and schemes to achieve high levels of integration of the wholesale, retail and ancillary energy markets.

**3.5.3 T5.3 Cost benefit analysis of the business models**

*Start month:* M19 (04/2019)

*End month:* M36 (09/2020)

*Leader:* CNET

*Task participants:* Empower, EDPD, LUT

*Deliverable:* D5.3 Cost benefit analysis of the business models (M36)

This task aims at estimating the economic benefits of the business models enabling the implementation of the local energy market concept at an EU level.

**3.5.4 T5.4 Roadmap to market**

*Start month:* M31 (04/2020)

*End month:* M40 (01/2021)

*Leader:* Empower

*Task participants:* EDPD, LUT, VPS

*Deliverable:* D5.4 Roadmap to integrated energy market operation and management (M40)

The objective of this task is to analyze the actions required to introduce the local market concepts in real market environments.

**3.6 WP6 Dissemination, standardization, regulation and exploitation**

*Start month:* M01 (10/2017)

*End month:* M42 (03/2021)

*Leader:* USE

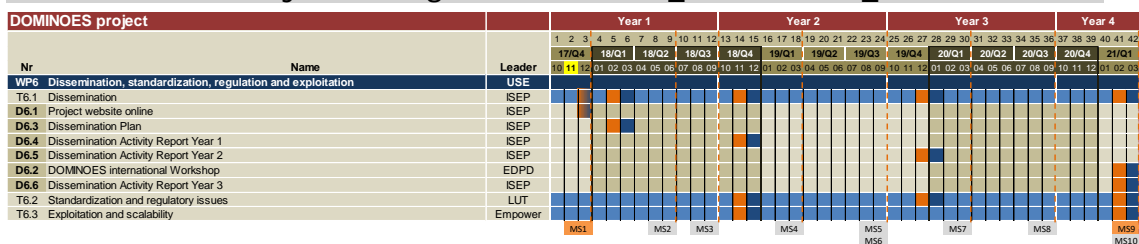
The goal of WP6 is to maximise the impact of the results of DOMINOES project by providing efficient strategy for dissemination, exploitation and standardisation.

The key objectives for the WP6 are:

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- The dissemination activities will be aligned to the exploitation strategy defined for the project and a dissemination plan will be included. The activities of dissemination will be addressed with the aim of:
  - Maximizing the impact of the results obtained in the project.
  - Promoting new R&D projects that will address those challenges that will arise directly or indirectly from DOMINOES project.
  - Creating a community of interest on the results of the project and the activities of the partners involved.
- Developing and implementing an exploitation plan to create and exploit routes to maximise usage of the expected results and applications concepts and take-up by business customers and the supplier ecosystem. These are essentials activities to maximize the strategic socio-economic impact and technology transfer to the market. The project will develop long-term value and exploit results on two levels:
  1. It will strive for a sustainable result on a project level,
  2. It will facilitate each partner to recognize individual project results that can be of use to them and help them to develop plans for their commercialization or incorporation into the organization.
- Defining and agreeing the set of standards that will be used in this project, to maximise the possible exploitation by providing interoperable solutions and interfaces across the different expected solutions.

Figure 9 WP6 schedule presents the overview of the WP6 schedule. Detailed excel version will be up to date and it can be found from project sharepoint site: `\Documents\02 Project management\DOMINOES_GANTT chart_<version>.xlsx`



**Figure 9 WP6 schedule**

In following chapters start month, end month, task leader, task participants, deliverable(s) and description are presented per task.

**3.6.1 T6.1 Dissemination**

*Start month:* M01 (10/2017)

*End month:* M42 (03/2021)

*Leader:* ISEP

*Task participants:* All

*Deliverables:* D6.1 Project website online (M03)

D6.3 Dissemination Plan (M06)

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*D6.4 Dissemination Activity Report Year 1 (M15)*

*D6.5 Dissemination Activity Report Year 2 (M28)*

*D6.2 DOMINOES international Workshop (M42)*

*D6.6 Dissemination Activity Report Year 3 (M42)*

The main goal of T6.1 is to promote a widespread dissemination of scientific and industrial results all along project life. The dissemination will follow the activities outlined in the draft dissemination plan, which is presented in the Impact section, and will be constantly updated throughout the project duration. A detailed dissemination plan, based on the draft plan already defined in this proposal, will be developed in the scope of this task and delivered as D6.3.

**3.6.2 T6.2 Standardization and regulatory issues**

*Start month: M01 (10/2017)*

*End month: M42 (03/2021)*

*Leader: LUT*

*Task participants: All*

*Deliverables: D6.9 Standardization proposals Year 1 (M15)*

*D6.10 Standardization proposals Year 2 (M28)*

*D6.11 Standardization proposals Year 3 (M42)*

This task will provide the knowledge and perspectives needed to be able to produce a set of practical and scalable recommendations for changes in existing local energy market related standards and regulatory rules, as identified in section 1.2 – Relation to the work programme.

The results of this task will support the development of local market standards that will facilitate widespread adoption of the new concepts and business models, by complementing the current standardization and regulatory framework at the European level.

**3.6.3 T6.3 Exploitation and scalability**

*Start month: M01 (10/2017)*

*End month: M42 (03/2021)*

*Leader: Empower*

*Task participants: All*

*Deliverables: D6.7 Exploitation Plan (Preliminary) (M15)*

*D6.8 Exploitation Plan (Complete) (M42)*

The aim of this task is to clearly identify the project results and classify them according to their commercial potential. Participants will build the methodology to be used in the identification and documentation of results and knowledge derived from project activities.

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In addition, the exploitation strategy will be outlined both at a consortium level and at individual partners´ level.

The task will assist in the marketing activities within "end-user" organisations to ensure adequate buy-in to the introduction of new demand-response reference architecture and development of the platform for managing that demand response resources.

The activities in the task will assure the maintenance of a common strategic perspective on exploitation and sustainability to ensure that the methodology, the network architecture, the development platform, the demand-response tools reference designs and knowledge generated are applicable to various applications in different domains in the new distributed energy source paradigm and can be sustained after the conclusion of the project.

**3.7 WP7 Project management and coordination**

*Start month:* M01 (10/2017)

*End month:* M42 (03/2021)

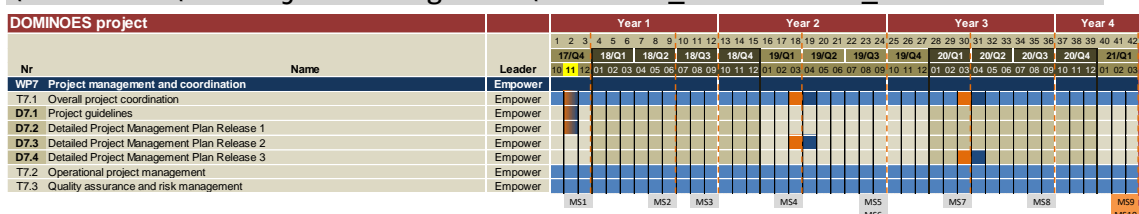
*Leader:* Empower

The key objectives for the WP7 are:

- Ensure that the project stays on schedule, budget and that the scope related objectives are achieved
- Manage the day-to-day activities in WPs and tasks in order to establish an efficient use of resources
- Coordinate the communication activities both inside and outside the project. Deliver adequate periodic and final reports in order for the EC to be able to follow the progress of the project
- Prepare all the administrative documents including Grant Agreement and Consortium Agreement
- Ensure that the project follows appropriate rules and regulations

Figure 10 WP7 schedule presents the overview of the WP7 schedule. Detailed excel version will be up to date and it can be found from project sharepoint site:

`\Documents\02 Project management\DOMINOES_GANTT chart_<version>.xlsx`



**Figure 10 WP7 schedule**

In following chapters start month, end month, task leader, task participants, deliverable(s) and description are presented per task.

**CONFIDENTIAL****3.7.1 T7.1 Overall project coordination**

*Start month:* M01 (10/2017)

*End month:* M42 (03/2021)

*Leader:* Empower

*Task participants:* -

*Deliverable:* D7.1 Project guidelines (M02)

D7.2 Detailed Project Management Plan Release 1 (M02)

D7.3 Detailed Project Management Plan Release 2 (M19)

D7.4 Detailed Project Management Plan Release 3 (M31)

Empower leads this task and is responsible for the overall management and coordination of the DOMINOES project. The goal of the task is to ensure collaboration between the WPs and to ensure that the project achieves its targets.

Empower as the project coordinator monitors the technical progress of the project and coordinates the scope and possible conflicts between the WPs.

The project will have a Steering Committee that will be led by the coordinator. The Steering Committee coordinates the communication towards the EC and manages also the project internal communication.

As the project overall coordinator, Empower will also manage the project related contracts and financial statements including distribution of ECs funding to partners.

**3.7.2 T7.2 Operational project management**

*Start month:* M01 (10/2017)

*End month:* M42 (03/2021)

*Leader:* Empower

*Task participants:* All

*Deliverable:* -

The purpose of this task is to manage the day-to-day activities of the project. This includes the management and update of the project plan continuously. The task participants will monitor the progress of the tasks and especially the related deliverables and milestones. To ensure an efficient operation of the project, the task delivers project guidelines including templates for deliverables and other technical documents.

Periodic reports will be prepared for each 12-month period including a final report for the whole project.

Finally, the task will arrange a document management system that will be used to manage all the project related documents.

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### **3.7.3 T7.3 Quality assurance and risk management**

*Start month:* M01 (10/2017)

*End month:* M42 (03/2021)

*Leader:* Empower

*Task participants:* All

*Deliverable:* -

The goal is to identify, evaluate and manage the risks related to the WPs. The task will define methods and a process to follow and proactively mitigate the risks related to the outputs of the project.

Likewise, the task will define a process to check and manage the quality of project outputs including deliverables. The project will have an internal review process with assigned reviewers for all the project official outputs. In the quality management guidelines, the project will specify what areas will be reviewed and what the approved levels for different items are.





## MILESTONES

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MS5	24	M2.2 Delivery of the local market architecture and end-user tools	Empower	Publication of D2.3 and D2.5.
MS6	24	M4.1 Validation framework available for test activities	Empower	Publication of D4.1.
MS7	30	M5.1 Delivery of cost benefit analysis of the business models	CNET	Cost Benefit Analysis (D5.3) complete and data validated.
MS8	36	M3.1 Demand response models and methods to enable local markets	ISEP	All WP3 deliverables provided successfully.
MS9	42	All deliverables completed	Empower	Final report delivered. Validation phase successfully completed and reported. All deliverables completed.
MS10	42	Final review	Empower	Final review organized. Key results showcased and validated.

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## References

[Dominoes Project Sharepoint](#)