## Annex 1 – Action plan template

Produced by each region, the **action plan** is a document providing details on **how** the lessons learnt from the cooperation will be exploited in order to improve the policy instrument tackled within that region. It specifies the nature of the actions to be implemented, their timeframe, the players involved, the costs (if any) and funding sources (if any). If the same policy instrument is addressed by several partners, only one action plan is required.

**Part I – General information**

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| Project:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Partner organisation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Other partner organisations involved (if relevant):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Country:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_NUTS2 region:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Contact person:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_email address:phone number: |

**Part II – Policy context**

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| The Action Plan aims to impact: € Investment for Growth and Jobs programme € European Territorial Cooperation programme € Other regional development policy instrumentName of the policy instrument addressed:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Part III – Details of the actions envisaged**

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| **ACTION 1 open monitoring system**1. **The background** (please describe the lessons learnt from the project that constitute the basis for the development of the present Action Plan)

During the EMPOWER project and in particular during the technical workshop in October 2018 in ALMADA, the city of Lorient was able to observe that there is a very wide variety of closed systems (i. e. proprietary) concerning monitoring. The city of Lorient considers that this type of solution does not meet its needs because evolutivity and scalability are not guaranteed in the long term. The work undertaken within the framework of EMPOWER has therefore been able to reinforce the city of Lorient on the need to set up free and open monitoring solutions. Thus, after a test phase relating to the electrical consumption of a building (Kermelo school) and the photovoltaic production of several sites in the city (results visible on http://zabbix.empower-lorient.fr connect as a guest) it was decided to extend the open monitoring system developed on this occasion to a larger number of buildings in the city of Lorient.Translated with www.DeepL.com/Translator1. **Action** (please list and describe the actions to be implemented)

The action will consist in extending the open monitoring system to several buildings (objective: between 10 and 20 main consumer buildings in the city of Lorient), and increasing the quantity of parameters monitored:- Already operational: monitoring of electricity consumption- Already operational: monitoring of photovoltaic productions- Temperature monitoring- Monitoring of solar thermal production- Possibly, monitoring of gas consumption, in connection with new developments of communicating meters currently being implemented in France.- Possibly, water consumption of buildings in connection with Lorient Agglomeration1. **Players involved** (please indicate the organisations in the region who are involved in the development and implementation of the action and explain their role)

- City of Lorient- Local stakeholder group "Consometers" for the validation of the open character of solutions- Providers- Local energy agency for the follow-up of results and work on the modalities of dissemination to private actors in the territory (SMEs).- Lorient Agglomération for portability to the municipalities of the agglomeration- Brittany Region for portability to Breton municipalities.1. **Timeframe**

Prototype, r&d: 2014-2017Implementation and development of the POC: 2017-2019Wider deployment (city of Lorient): 2019-2020Wider deployment (agglomeration - region): 2020-20211. **Costs** (if relevant)

60 000€ for City of Lorient1. **Funding sources** (if relevant):

Lorient’s own budgetBrittany Region for the POC |
| **ACTION 2 open monitoring federation**1. **The background** (please describe the lessons learnt from the project that constitute the basis for the development of the present Action Plan)

During the EMPOWER project, we were able to see that there is a very wide variety of monitoring systems (TW in Almada). We have identified globally 3 ways to produce a monitoring system: 1/buy an existing, proprietary solution ("ready to wear") 2/developing locally in conjunction with companies a proprietary solution more specifically adapted to the needs of the community ("haute couture") and 3/develop open, scalable solutions that can be adapted to any type of user. ("Do It Yourself") This is the third solution that has been adopted in Lorient. However, in order to create a truly open environment, the principle is not only to develop a monitoring solution, but to propose ways of discussing monitoring solutions with each other. 1. **Action** (please list and describe the actions to be implemented)

The aim is to create the principles of a federation allowing the sharing of data from various monitoring systems. An integration of the national electricity consumption data collected by ENEDIS is also intended in the long term, even if the integration of these data is not one of the criteria for the success of the project.1. **Players involved** (please indicate the organisations in the region who are involved in the development and implementation of the action and explain their role)

 \* ALOEN, \* ALEC Rennes, \* Brittany Region, \* City of Lorient, \* Each service provider involved in the work to be done 1. **Timeframe**

POC: end of 1st semester 2019Continuation of the federation's deployment: 2020-20211. **Costs** (if relevant)

POC specifications: 4000€POC: 50 000€Subsequent deployment: to be defined after POC results1. **Funding sources** (if relevant):

Specifications of the POC: City of LorientPOC: Brittany Region (Managing Authority)Subsequent deployment: to be defined as part of the project |
| **ACTION 3 financing of monitoring “pay as you save” ?, location?** **Working with the stakeholder group: how could the local public company implement a fleet of sensors to monitor shareholder consumption and be remunerated on the basis of the logic of participating in the savings generated?****ACTION 4: monitoring representations****Work within the framework of the results of the SOLENN project to implement relevant indicators allowing a real control of consumption in buildings according to the different types of consumers.…….** |
| **Date**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Stamp of the organisation (if available):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |