

LC Districts

Interreg Europe



REGIONAL ACTION PLAN

Summary

Marche Region



Index

0	Introduction.....	3
1	Part I – Background.....	4
1.1	General information	4
1.2	Policy context	4
1.2.1	Policy Instrument	4
2	Part II – Methodology	4
2.1	Interregional approach and conclusions	5
2.2	Regional approach. Stakeholders	5
2.3	Regional strategic thinking process	6
3	Part III- Actions	7
3.1	Action 1: CERTIDISTRICTS	7
3.1.1	Relevance to the project	7
3.1.1.2	Interregional learning	7
3.1.2	Nature of the action	8
3.1.2.1	Policy improvement	8
3.1.2.2	Activities	8
3.1.3	Stakeholders involved	9
3.1.4	Time frame	9
3.1.5	Costs	9
3.1.6	Funding sources	10
3.1.7	Success indicators for the action	10

o Introduction

The Marche Region - P.F. Reclamation, Energy Sources, Waste and Quarries and Mines participates as project partner in the project "LC Districts" (Towards low carbon city districts through the improvement of regional policies) funded under the Interregional Cooperation Program 2014 - 2020 INTERREG EUROPE, pertaining to Priority Axis 3 "Low-carbon economy"

1 Part I – Background

1.1 General information

Project Name	Towards low carbon city districts through the improvement of regional policies
Project Acronym	LC Districts
Partner organisation concerned	Marche Region
Country	Italy
NUTS2 region	Marche Region
Contact person	Lorenzo Federiconi
Email address	lorenzo.federiconi@regione.marche.it
Phone Number	+39 071 8063530

1.2 Policy context

1.2.1 Policy Instrument

The Action Plan aims to impact::

- Investment for Growth and Jobs programme
- European Territorial Cooperation programme
- Other regional development policy instrument

Name of the policy instrument(s) addressed:

*Marche Region Growth & Jobs ERDF Regional Operational Programme
2014/2020 2014/IT16RFOP013*

MARCHE REGIONAL ENVIRONMENTAL ENERGY MANAGEMENT PROGRAMME (PEAR 2020, approved in 2016)

MARCHE REGION ESIF REGIONAL OPERATIONAL PROGRAMME 2021/2027 will be influenced by the new PEAR.

2 Part II – Methodology

2.1 Interregional approach and conclusions

The interregional learning process took place through the exchange of good practices. Partners contributed to this learning phase together with their local stakeholders by identifying and explaining their experiences and initiatives related to the pursuit of decarbonisation of their cities, to inspire other partners.

The good practices presented during the project were all subject to a more in-depth analysis by the other partners involved through a Peer review process.

The present action plan of the Marche Region is therefore positively affected by all the actions seen along the way.

2.2 Regional approach. Stakeholders

The project approach required a continuous involvement of public and private stakeholders relevant for energy efficiency policies challenges tackled by the project, in order to collect inputs for a shared urban policies drafting and implementation through a participative approach, strengthening the capacities of technical and political public officers to deliver efficient and sustainable city district and low carbon policies and plans through their involvement and benefiting from interregional learning activities.

The Local Stakeholders Group (LSG) for the Marche Region is:

1. Marche Region- Environmental Remediation, Energy resources, Waste Management and quarries and mines Unit
2. Marche Region- European Policies and European Territorial Cooperation Department, Managing Authority of ERDF and ESF
3. ENEA- Italian National Agency for New Technologies, Energy and Sustainable Economic Development
4. Marche Region ITACA Protocol partners
5. Polytechnic University of Marche
6. Marche Municipalities
7. Urbino University
8. Camerino University

LSG met a total of 6 times for the moment:

- 15.07.2020 - workshop 1: SWOT analyses Part I
- 22.07.2020 - workshop 2: SWOT analyses Part II
- 27.01.2021 - workshop 3: Sharing of the results of the Regional Diagnosis
- 09.06.2021 - workshop 4: Action Plan Part I - Involvement of the municipalities
- 04.10.2021 - workshop 5: Action Plan Part II – Sharing the draft of the Action Plan

2.3 Regional strategic thinking process

The drafting of the Regional Action Plan has been developed through a strategic thinking process at regional level, aiming to identify the relevant measures (from the interregional learning process) to integrate into the RAP, the activities needed for this integration, timeframe and responsible actors.

The internal analysis to identify the relevant measures shared by all PPs during the interregional learning process has been done following a common methodology based on a matrix with:

- significant challenges facing by Marche Region as rows of the table (i.e. difficulties encountered to reach desirable results, needs of a change, room for improvement)
- good practices shared by project partners as columns of the table, representing possible solutions for tackling the aforementioned challenges (tool, project, information/awareness, training/capacitation, strategy, finance, legal measures)

The matching exercise between challenges and solutions was done scoring each option from 0 (poor) to 5 (very good).

3 Part III- Actions

Action	Objective
CERTIDISTRICTS	Design and test a LOW CARBON DISTRICT applying an environmental certification tool on buildings and on an urban scale.

3.1 Action 1: CERTIDISTRICTS

3.1.1 Relevance to the project

The Low Carbon District is a sustainable urbanization approach that focuses on reducing the anthropogenic carbon footprint through the minimization or abolition of the use of energy obtained from fossil fuels. The need is to promote an environmental assessment of the districts to complete the energy one, thus deepening the environmental impact and the quality of the urban fabric, without neglecting, through the LCA analysis, the considerable energy expenditure related to the production chains of the materials to be construction and facilities. Currently, the evaluation of the buildings (cities, districts, blocks, buildings) is carried out by applying different protocols. ITACA Protocol is a device for assessing the level of energy and environmental sustainability of buildings; verify the performance of buildings not only in terms of consumption and energy efficiency, but also of impact on the environment and human health; certification and accreditation tool; useful for the designer, for the control and guidance activities of the public administration, for the consumer's choices.

3.1.1.2 Interregional learning

As regards the transfer of the methodology on our territory, the following good practices are interesting:

- **"Lourdes Renove"**: during the first study visit of the project, held in Pamplona in 2019, in viewing the proposed intervention, the idea was born of trying to apply both ITACA environmental certification protocols in projects aimed at guaranteeing and verifying in a more specific and articulated way, the environmental and energy performance of a settlement characterized by virtuous technical solutions. The action presented by the Navarre Region is in fact an energy redevelopment project of several buildings in the peripheral area; the interventions are not limited to the single building, but are configured as a wide-ranging redevelopment of the entire urban district, thus giving the inhabitants a new feeling of living in a much neater and cleaner place. This specific feature of the good practice was the main source of inspiration for the action proposed in this Action Plan. In fact, the planning of this action plan started from here, which saw in the logic applied to the "Lourdes Renove" project the main source of inspiration for CERTIDISTRICTS: applying certification not only energy but also environmental and social criteria to an entire district and not just to individual buildings.

- **“Plan of the green space of the city of Karlovac”**: this good practice presented by Croatia was also of great inspiration for the Marche Region. In fact, the opportunity to create an urban plan by looking at a design area in a holistic way is very important in order to design an innovative urban area. The municipalities involved can be inspired by the process identified by this good practice to find the right measures to also include in their SECAP. The application of the reverse procedure could also be very interesting: not starting from the SECAP and then integrating the measures into existing design solutions, but rather starting from these and finding other actions to be included in any updates to the SECAPs. The action of this plan will find interventions.

3.1.2 Nature of the action

Design a low-carbon district by applying the ITACA Protocols, modulating interventions to obtain a high score and thus certify high energy and environmental performance. URBAN scale protocol certifies a territorial area that has various elements such as infrastructures, services, green spaces, etc., as well as buildings. Building scale protocol therefore allows to obtain an environmental energy certification of each single building and its immediate surroundings.

3.1.2.1 Policy improvement

The PEAR, Regional Environmental Energy Plan, is the regional environmental energy management program of the Marche region and represents the sectoral operational program in which the Marche Region has identified the strategies, actions and tools to pursue climate and energy objectives and support the regional energy transition. The results of this action will make it possible to include specific actions within the new PEAR aimed at activating low-carbon districts throughout the region.

The new PEAR will affect the next Regional Operational Program POR-FESR 2021/2027 of the Marche Region and the resulting results will be incorporated in this additional political instrument to launch more targeted calls aimed at promoting sustainable buildings and the development of low-carbon districts.

3.1.2.2 Activities

The **first phase** of the action requires the municipality involved to develop the following sub-activities:

- sign a memorandum of understanding, in line with the aims and objectives of the Public Administration involved, which regulates the implementation and determines the rules of the bodies involved: Marche Region, Marche Polytechnic University, ITACA, Municipality and possibly the Province of reference;
- select one or more significant buildings and a district in which to apply the parameters of the energy
- environmental certification;

- define the area subject to analysis;
- perform a first modeling of the identified area that can already be an example for the improvement of the reference policy tool, namely the PEAR.

In the **second phase** of the action, the Public Administration will develop the following activities:

- 1st round of certification on a building and urban scale with which to share the intermediate results and find any alternative solutions through the feedback of the stakeholders involved and a possible intermediate Peer review carried out by the Public Administration itself with the aim of identifying new technical solutions to obtain the best environmental energy performance;
- 2nd round of certification on a building and urban scale with which to share the final results with the stakeholders and to be able to compare the results of the entire process in order to be formally adopted by the Marche Region and modify the political instrument affected by the action itself .

3.1.3 Stakeholders involved

Municipality of the Marche Region

Provinces of the Marche Region

Universities and Research Centers

Public and private sector professionals

ITACA Marche

E.R.A.P. Marche

3.1.4 Time frame

Maximum one year

3.1.5 Costs

Costs of normal administrative performance because the action will be implemented in house

In particular, in the year of implementation of the action described in this plan, each specific municipality that will participate in the trial will have two people engaged in 15% of their normal working time.

At the same time, the Marche Region, in the role of coordinating the actions tested in the municipalities, and the other external collaborations will employ two people for 20% of their usual working time. Specifically, the external collaborations concern Itaca Marche and the Polytechnic University of Marche which collaborate with the Region through a framework agreement. The Polytechnic University of Marche makes part of a research doctorate available to the proposed action.

3.1.6 Funding sources

The present action will be financed through the ordinary funds of the Marche Region and through the ordinary funds of the municipalities involved.

3.1.7 Success indicators for the action

The application of an energy-environmental certification is a guarantee of the high quality of the proposed intervention. Therefore, by applying the right monitoring indicator proposed within the LC Districts project - Energy saving: Target 2023 (GWh) CO₃₄ reduction of GHG emissions (Tons eq CO₂) - it is possible to concretely measure the energy-environmental benefits of the proposed action .

This document has been drafted by the Marche Region Working Group belonging to the Department of Infrastructures, Territory and Civil Protection, Environment and Water Resources Department, Energy Sources, Waste, Quarries and Mines Sector:

*Massimo Sbriscia
Lorenzo Federiconi
Cinzia Colangelo
Katuscia Grassi
Simonetta Taddei
Maria Pia Cavallone*



In Collaboration with:

Sviluppo Marche srl Agenzia di Sviluppo Regionale della Regione Marche

Technical assistance to the LC DISTRICTS Project

Actuator of the "Covenant of Mayors of Marche Region".

Working Group:

*Lucia Catalani
Giovanni Ciriachi
Roberta Montalbini*



With the contribution of Rossano Basili of ENEA - Energy Efficiency Department Integrated Services Division for Territorial Development c/o Marche Region for the section on energy certification of buildings.

With the contribution of Prof. Costanzo Di Perna and Eng. Samantha Di Loreto of the Department of Industrial Engineering and Mathematical Sciences - Polytechnic University of Marche within the activities of the outline of the framework agreement between the Marche Region, UNIVPM (Polytechnic University of Marche) and ITACA (Institute for Innovation and Transparency of Contracts and Environmental Compatibility) aimed at the promotion of environmental sustainability in accordance with DGR 560 of 10/05/2021 and the related Implementation Agreement in accordance with DGR 899 of 19/07/2021.