



# Preparatory Report Capacity-building program

Focus: Murcia region & Focus Country Spain

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# Preface

The aim of this preparatory report is to enable the organisation and implementation of a communication campaign coordinated by INFO Murcia in the framework of the CITYNVEST project

The aim of the different actions displayed here below is to bring together the entire value chain of decision makers and stakeholders to seize the energy efficiency market in Spain: from interested individuals, to SMEs such as local ESCOs, to financiers and project developers. In order to implement innovative financing models for energy efficiency, local authorities play a decisive role. Following the interaction with the other project partners, in particular the other two Pilot regions (Liège and Rhodope), INFO Murcia is to contribute to the visibility, communication and impact of the project, as evidenced in the project proposal.

Awareness is to be raised through the business community and local practitioners by means of a range of tools developed by the project. Simultaneously the national workshop wants to provoke further debates amongst stakeholders. It provides an opportunity to remain active and in contact with peers and experts. For further information how to get involved please visit [www.CITYnvest.Eu](http://www.CITYnvest.Eu) or contact [info@citynvest.EU](mailto:info@citynvest.EU).

# Summary of Strategy in Spain

## Policy framework

Directive 2012/27/EU of the European Parliament and of the Council of 25 October 2012 on energy efficiency (EED), frames the EU context on EE. It is fundamentally aimed at establishing a common framework of measures for the promotion of energy efficiency within the Union in order to ensure the achievement of the Union's 2020 20% headline target on energy efficiency and to pave the way for further energy efficiency improvements beyond that date.

The art. 4 of such a disposition is also the frame of the strategy for energy renovation in the building sector in Spain.

Buildings represent 40% of the Union's final energy consumption, hence Article 4 obliges Member States to create a long-term strategy beyond 2020 for mobilising investment in the renovation of residential and commercial buildings with a view to improving the energy performance of the building stock. The strategy should address cost-effective deep renovations which will lead to a refurbishment that reduces both the delivered and the final energy consumption of a building by a significant percentage compared with the pre-renovation levels, resulting in strong energy performance. Such deep renovations could also be carried out in stages.

The Spanish Strategy responds to the abovementioned obligation and includes the following elements:

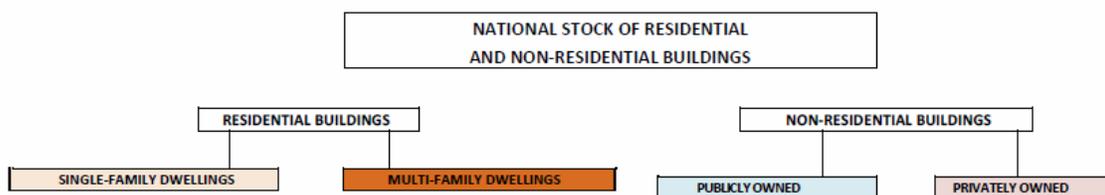
- a) an overview of the national building stock based, as appropriate, on statistical sampling;
- b) identification of cost-effective approaches to renovations relevant to the building type and climatic zone;
- c) policies and measures to stimulate cost-effective deep renovations of buildings, including staged deep renovations;
- d) a forward-looking perspective to guide investment decisions of individuals, the construction industry and financial institutions;
- e) an evidence-based estimate of expected energy savings and wider benefits.

Such a national Strategy has been prepared by the Ministry of Development's Directorate General for Architecture, Housing and Land, in collaboration with the other ministerial departments involved, as well as taking into account contributions from the various working groups set up to develop it, other public administrations and the main actors in the sector.

The analysis and segmentation of the Spanish building stock outlined below has been carried out based on the intersection of two criteria: use (differentiated between residential buildings and the non-residential sector) and ownership, as these are the two variables that fundamentally define how action will be taken with regard to the existing building stock, determining the way in which both decision-making regarding the renovation as well as funding will take place.

In terms of ownership, a distinction is made between single-family dwellings (one owner) and multi-family dwellings under a horizontal property regime (primarily as homeowners association schemes) for residential stock, and between public ownership (buildings for the various

administrations: central government, regional government and municipalities) and private ownership for the non-residential stock.



This segmentation is consistent with the information sources used, as the 2011 Building and Housing Census only makes it possible to analyse the residential stock, whereas it is necessary to exploit the land register database (as at 2013) to analyse the non-residential sector.

The Spanish Strategy deals with all of the above segments, addressing each one on its own merits and paying special attention to the most complex case with the greatest social impact, which is the case of homeowners associations in residential (or predominantly residential) buildings with several dwellings.

## Where are we in the Murcia region?

The Spanish long term strategy for energy renovation in the building sector in Spain pursuant to art. 4 of the EED is also addressing the regional-local dimension of interventions, in particular:

- The experience in renovation accumulated by the players involved: administrations, experts and companies. In particular, the experience generated via the Integral Renovation Area Programme and Urban Renovation Areas and the local and regional programmes to promote renovation.
- Promoting the regional and municipal regulatory development of the potentialities of the Spanish legislation adopted in accordance with EU regulations (eg. urban renovation, regeneration and renewal), a model ordinance on energy efficiency and renovation should be created that offers standardised solutions for this kind of action.
- In terms of the administrative measures, they are logically associated with improving coordination between the three levels of public administration: State, regional and municipal. They are all involved in these policies and in the processes to implement the same, in different ways, but the objectives are shared. The coordination must prevent, as far as possible, any duplications or contradictions that could arise.

The current coexistence of different State, regional and local aid programmes for conservation, integral renovation and sustainability actions, aimed at similar or complementary actions, is sometimes confusing and creates compatibility issues. Solving these issues is therefore a priority. To do this, some appropriate measures would be:

- a) Simplifying, standardising and reducing time in administrative procedures. Procedures for licences and authorisations should be sped up and use should be made of electronic administration platforms.
- b) Promoting 'Local Agencies or Municipal Services for Building Renovation, Urban Regeneration and Renewal' in order to inform private actors, guide developers throughout the renovation process, mediate in any conflicts that arise, prepare intervention programmes, draw up regulations on renovation aid (renovation ordinances) and the terms for organising subsidies, etc. This measure would also include management and information through so-called 'one-stop shops'.
- c) Introducing relaxation criteria in processes to authorise works, which are approved in relation to applying the Technical Building Code

In this context, the Murcia region is well advanced in coaching local authorities and planning investments, it has been struggling to implement Sustainable Energy Action Plans or similar local strategies and to gather knowledge necessary to implement innovative financing models.

In a first stage of CITYinvest pilot action in Murcia region, up to 230 public buildings used for administrative purposes will be retrofitted. This is a very concrete development aligned in the overall strategy for energy renovation in the building sector, as explained before. InfoMurcia will assist Energy&Industry department of the regional government who is developing a dedicated structure and an operational model, which aims to achieve 23% of energy savings. Those savings will be provided thanks to the renovation of windows, opaque facade zones, inside lighting, heating and hot water boilers, air conditioning and energy management.

As a second step, InfoMurcia will also assist Energy&Industry department of the regional government who will reassess results of the pilot project action and make recommendations to the regional decision makers on suitable structures and operational models that will need to be put in place in order to scale-up investments. As a last phase, InfoMurcia brings European expertise to support the Pilot Action in Murcia on complementary funding opportunities, which could be used to leverage more investments by mobilizing the private sector. Finally, a communication campaign will be undertaken, including promotional and training materials from CITYinvest, targeting local authorities in both the region Murcia and the rest of Spain.

More information can be found on:

[http://www.carm.es/web/pagina?IDCONTENIDO=83541&IDTIPO=10&RASTRO=c\\$m122,70](http://www.carm.es/web/pagina?IDCONTENIDO=83541&IDTIPO=10&RASTRO=c$m122,70)

[http://www.carm.es/web/pagina?IDCONTENIDO=22766&IDTIPO=100&RASTRO=c818\\$m22727](http://www.carm.es/web/pagina?IDCONTENIDO=22766&IDTIPO=100&RASTRO=c818$m22727)

Following Esther Marin, General Directress of the Energy & Industry Department, the current situation regarding energy efficiency (EE) initiatives in the Murcia region's building stock:

- 21 energy audits of buildings are already done
- A total of 50 buildings will get an energy mapping (inventory of the buildings, more elaborated than the audit), including an estimation of the EE potential. This will be an in-depth study. Based on that, the other buildings will be analysed following the same structure.
- March 2016: tendering procedure starts for the auditors
- September/Oct 2016: the whole picture (detailed energy mapping) for the total amount of 448 buildings has to be ready. This means an unconfirmed estimation of 2.5-3 million of square meters for total surface of the building stock.



MUI

Dirección General de Energía y Actividad Industrial y Minera

**PLAN DE EFICIENCIA ENERGÉTICA EN EDIFICIOS DE LA ADMINISTRACIÓN**



**1 OBJETIVO**

- Incrementar la eficiencia en el uso de la energía, obteniendo a su vez edificios más respetuosos con el medio ambiente
- Reducir el consumo energético de los edificios de la Administración Regional en un 23 %
- Acción ejemplarizante de la Administración hacia edificios con un consumo casi nulo.

**1 EN CIFRAS**

ACTUALMENTE	27,0 ME	107 Gwh
AHORRO	6,2 ME	25 Gwh
ESCENARIO FINAL	20,8 ME	82 Gwh

**2 ¿COMO?**

**PRIMERO SABER LO QUE TENEMOS**

**2.1. Usos y Tipologías**

- Consejerías y edificios administrativos: 90
- Edificios de carácter sanitario y asistencial: 133
- Centros Educativos: 150
- Otros usos: 99
- TOTAL: 448

**2.2. Medios**

- ¿Querer saber?
- ¿Cómo?

**2.2.1. ACUERDO DE CONSEJO DE GOBIERNO, Enero 2016**

**2.2.2. MAPEO energético, Licitación en función de la Espoliga 4 bloques**

I. Centros Educativos	57
II. Centros de Salud	57
III. IMAS	25
IV. Otros Usos	57

**Plazo**

Licitación	Marzo 2016
Ejecución	Abril-Mayo-Junio 2016

**Empresa a Invitar**

REGENERA, KONERY, TENAGA, ACTUA, SERVICIOS Y MEDIOAMBIENTE, SOLVENT

**Conclusiones**

ELIJO 2016 nos permite saber por cada uno de IMAS o medidas de ahorro energético (impacto, inversión, retorno).

**3 MODALIDADES DE EJECUCIÓN - 2 TIPOS**

**3.1. EJECUCIÓN DIRECTA**

- Compra de componentes con fondos propios de la Administración Capitulo VI
- Responsables eficiencia energética: Contratos de Mantenimiento
- MAE's (acordadas en función ahorro)
- Ejecución por contratación de empresas murcianas (matrículas de dimensión, electricistas, etc.)

**Ventajas**

- Ahorro económico mayor o igual al 15% respecto ESE
- Estudio de posibilidad de aplicación de fondos FIDAE Interés 0 %
- Mayor posibilidad de llegar al tejido murciano
- Más facil de desarrollar si se realiza una planificación y ejecución adecuada
- Involucrar a la gente

**Inconvenientes**

- Fondos propios
- Respons. Técnico-Responsable de ejecución: Disponibilidad y especialización

**3.2. CONTRATACIÓN EMPRESAS DE SERVICIOS ENERGÉTICOS**

**MODALIDAD DIÁLOGO COMPETITIVO**

**Ventajas**

- Inversiones realizadas por ESEs y mantenimiento
- No se necesitan Fondos Propios
- Las ESES hacen las inversiones antes para poder tener rentabilidad
- La Auditoría no es necesaria

**Inconvenientes**

- Salvencia Técnica y Económica de la ESE, Condiciona el tamaño de las empresas
- Contratos a medio y largo plazo (10-15 años) motivado por la recuperación de la inversión
- Plazo de Contratación largo y novedoso (poca experiencia)
- Plaza escasa para ESEs, Seguimiento complicado
- Desvinculación de la Tecnología

**4 DECRETO DE CONSEJO DE GOBIERNO**

**OBJETIVO**

Sostenibilidad energética del Sector Público de la Comunidad Autónoma de la Región de Murcia, dentro del marco normativo establecido en la Ley 11/2015, de 30 de marzo, de modificación de la Ley 10/2006, de 21 de diciembre, de Energías Renovables y Ahorro y Eficiencia Energética de la Región de Murcia



## Responsible bodies for CITYnvest pilot action in Murcia

Competence body: General Directorate for Energy, Industry & Mining (so called E&I dept)

Ms Esther Marin (general directress)

c/ Nuevas Tecnologías s/n

Murcia

[http://www.carm.es/web/pagina?IDCONTENIDO=22766&IDTIPO=100&RASTRO=c818\\$m22727](http://www.carm.es/web/pagina?IDCONTENIDO=22766&IDTIPO=100&RASTRO=c818$m22727)

Supporting body: Murcia Region Development Agency (so called INFO Murcia)

Mr Javier Celdrán (general director)

Avda. La Fama 3

Murcia

<http://www.institutofomentomurcia.es/web/portal/what-is-info>

Two scenarios to conduct the pilot action are still under consideration:

- each department in the region does its own contracts with the support of E&I dept
- E&I dept fully takes this responsibility, clusters buildings and coordinates the action.

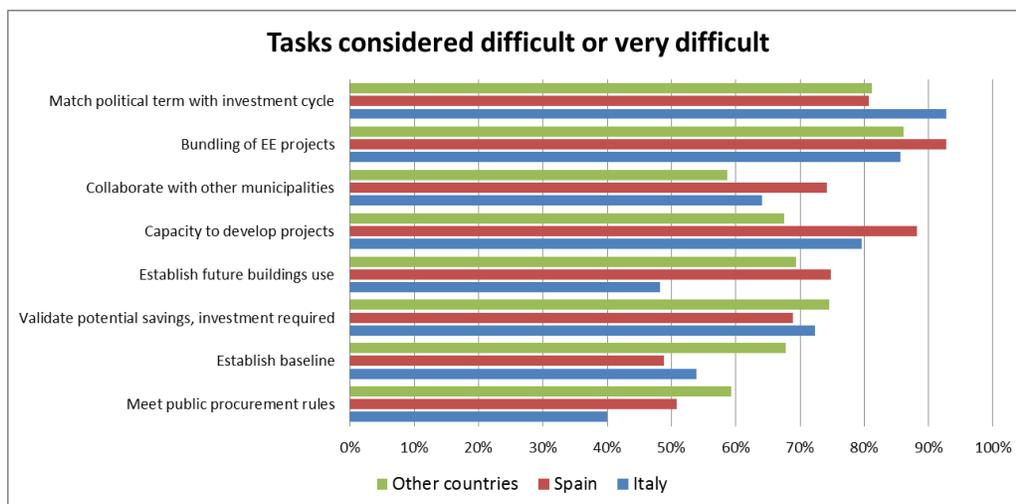
CITYnvest is a support program at the service of the region of Murcia. The aim is to have the learning experience from the other financing models to support the implementation of a new long-term dedicated structure in Murcia. INFO Murcia is to support E&I dept in this process.

## Energy Efficiency market

Following the Survey recently undertaken by the CoMO on “Sustainable energy investment at municipal authorities” (march 2016), information collected from members of CoM in Spain represents some 25% of the total responses.

The main conclusions of this survey as for Spanish operators concerned, are the following:

- 1/3 of respondents plan to use some innovative financing methods. Little significant experience exists on this, though.
- Third party financing and utility financing are most often used (ie. ESCOs)
- 1/3 of projects planned cost less than 1 million €
- 2/3 are above such amount
- Most popular fields of intervention are: public external lighting, municipal buildings and residential buildings
- Certain key project development barriers, which a large part of respondents find very difficult
  - Funding project plans preparation (ie. Grants, oen funds)
  - Regulatory & political environment (ie. ability to raise debt)
  - Capacity and cooperation (ie. Bundling opportunities)



## Relevant best practices in the Murcia region

The Covenant of Mayors, Europe’s mainstream initiative on sustainable urban development, has 45 signatories in the Murcia region, of which there are 37 SEAPs submitted. Among them there are some outstanding examples in the field of energy efficiency on local/municipal level (EE in public buildings, street lighting, RES incorporation in public buildings. INFO Murcia, regional development agency, is the CoM coordinator in the region.

To know more on this, please visit: <http://www.pactocaldesregmurcia.es/>

Some real cases also need to be mentioned as examples:

- Urban mobility modal shift in the city of Murcia. New urban mobility actions have been implemented in Murcia in the last years with the following impact. Private vehicle (car) has reduced its weight in the mobility use from 48% in 2009 to 38% (2015) of the trips. The new tram line has increased from 1% to 12% of the trips in the same period. The major increase has been in the bicycle, from 1% (2009) to 5% (2015). Murcia has installed a new tram line in the last 6 years and new bicycle rental system with more than 50 points distributed throughout the city. More info at:

<http://www.mobilityweek.eu/emw-award/>

<http://muybici.labici.net/>

- Technical support to municipalities in EE (ELENA FUENSANTA project) Key notes;
  - Support to 45 Municipalities in the Region
  - Signature of agreements with additional municipalities and public organisms
  - Execution of more than 60 Investment Projects both in Energy Efficiency and Renewals
  - Renovation of more than 125.000 light points in Public Lighting
  - Accomplishment of 46 Million € worth Investments
    - Public lighting 79 %
    - Others 21 %
  - Final objectives:
    - 65,80 GWh annual final energy saved for Energy Efficiency projects annual final energy production by Energy Efficiency
    - 9,05 GWh annual final energy production by Renewals Projects
    - 11.827 t Estimated annual reduction of CO<sub>2</sub>
    - 6.437 tonnes of oil equivalent

More info at:

<http://www.institutofomentomurcia.es/web/europa/proyecto-elena-fuensanta>

# National Workshop

## Overall campaign

The orientation of the envisaged campaign is to show evidence of innovative financing models that successfully have been applied in different Member States, Spanish regions (i.e. the Murcia region) with a focus on its replicability aspects. The objective is to trigger concrete discussions between key decision makers and the entire value chain of the energy efficiency market in Spain and the Murcia region. Emphasis will be on exposing local and regional decision-makers on the important facilitating role they can play in the take-up and scale-up of innovative financing for energy efficiency in our country-region context. The actions will work as steppingstone to accelerate necessary collaboration between stakeholders, to be inspired from successful examples and to discuss on a step-by-step approach.

- INFO website and INFO covenant of mayors regional website
- Newsletter INFO
- Press releases
- Member of Association of Regional Development Agencies EURADA
- Member of ERRIN network
- Member of the Spanish Forum of Regional Development Agencies
- EEN network
- Social media
- Promotional events at national/ regional level
- Training events at national/ regional level

## Promotional events (awareness-raising)

Organisation of CITYNVEST capacity building workshops in large events with a view to raise awareness on both objectives and results of CITYinvest as well as the regional strategy of EE in public buildings owned by the government of the Murcia region.

A strong cooperation between INFO Murcia and E&I Department was established to organise the events in the most effective manner.

There is a range of large events which merits need to be explored as suitable marketing tools for our CITYinvest exercise. The following actions are in the pipeline:

## At National level (Spain)

CONAMA 2016, Congress for Environmental Issues in cooperation with COVENANT OF MAYORS: Contribution with a presentation in the most suitable axis of the Congress. A communication about project results will be submitted for its evaluation. The presentation will contain aspects related to new solutions to make easier the building renovation process as well as proposed actions to be included in SEAP updating. Target audience will be public administrations in relation with building management and energy in buildings; technicians: engineers, architects and energy auditors; and NGOs.

Spanish Network of Cities for Climate seminar in 2017: The Spanish Network of Cities for Climate is composed by Spanish municipalities which are integrating policies about climate protection, including energy efficiency measures. The Seminar, organised in collaboration with this network, will be place in 2017, showing successful tools for financing building renovation at EU. Target audience will be public administrations in relation with building management and energy in buildings; and NGOs.

III Congress for Buildings renovation 2016: A communication will be submitted to be evaluated for the most suitable axis of the Congress. It will treat about innovative technical aspects of building refurbishment process, as project result. Target audience will be composed by public administrations in relation with building management and energy in buildings; technicians: engineers, architects and energy auditors; construction companies; and financing agents.

## At regional level (Murcia)

Workshop in cooperation with ELENA-FUENSANTA Project about best practices on EE in public buildings in the Murcia region (in collaboration with Regional Federation of Municipalities): The workshop will be carried out in the framework of the European Sustainable Energy Week (EUSEW) 2016, in June. Even if the building renovation process is in retard in the Region of Murcia, synergies created among CITYinvest and ELENA-FUENSANTA project will push up this complex process at local level. In this sense, the experience which is being implemented at regional level (Energy Efficiency Plan for Regional Public Buildings) will be used as lighthouse project to be replicated at local level. The target audience of this workshop will be composed by public administrations in relation with building management and energy in buildings; technicians: engineers, architects and energy auditors; and construction companies.

Presentation on the Juncker Plan as new financing tool for energy renovation: This presentation will be carried out in the frame of EUSEW 2016. Representatives of EIB will present this new financing tool useful for implementing public building renovation process at regional and local level. Target audience of this event will be public administrations in relation with building management and energy in buildings; construction companies; financing agents; and NGOs.

2 Workshops about EE in building at local level: The workshops, to take place in 2016 and 2017, will include presentations about building renovation and new financing tools, among other content related energy efficiency in public buildings. Both will be implemented in the framework of the Covenant of Mayors (CoM), being INFO-Murcia Coordinator of CoM in the Region of Murcia.

## Training events (upgrading professional skills)

Organisation of CITYNVEST training workshops with a view to provide training for local practitioners on current experiences for EE in public buildings in Spain and the Murcia region

Cooperation between INFO Murcia and E&I Department is deemed to be crucial to ensure the most suitable approach.

There is a range of large events which can be explored as suitable marketing tools for our CITYNVEST exercise. The following actions are a working proposal, INFO Murcia is pursuing these events for marketing purposes

Two Training actions will be carried out treating “Advanced solutions for low cost building refurbishment”. The first training will be in 2016 and the second in 2017. Regional associations of engineers and architects will be involved in them. The target audience of these workshops will be composed of public administrations in relation with building management and energy in buildings; technicians: engineers, architects and energy auditors; and construction companies.

### - At national level (Spain)

- Continuous Training Programme FEMP. CITYNVEST workshop. Approach to organisers has been undertaken in early march 2016

### - At Murcia region level

- Workshop for technicians and local practitioners from 45 municipalities in Murcia region, in cooperation with COVENANT OF MAYORS and Regional Federation of Municipalities & provinces. To be contacted soon.
- Others

## Forecast Indicators

Action	Level	Projected Audience	Target Groups						
			1	2	3	4	5	6	
CONAMA 2016, Congress for Environmental Issues in cooperation with COVENANT OF MAYORS. Contribution with a presentation in the most suitable axis of the Congress	National	500		X	X				X
Spanish Network of Cities for Climate. Seminar event in 2017 showing successful tools for financing building renovation at EU	National	150		X					X
III Congress for Buildings renovation 2016. Communication in the most suitable axis of the	National	500		X	X	X	X		

Congress								
Training actions: Advanced solutions for low cost building refurbishment. 2016 and 2017	Regional	40		X	X	X		
Workshop in cooperation with ELENA-FUENSANTA Project about best practices on EE in public buildings in the Murcia region (in collaboration with Regional Federation of Municipalities). In the frame of EUSEW 2016	Regional	50		X	X	X		
Presentation of Plan Juncker as new financing tool for energy renovation. In the frame of EUSEW 2016	Regional	50		X		X	X	X
Workshops about EE at local level. Presentation about building renovation and new financing tools. In the frame of the Covenant of Mayors. In 2016 and 2017	Regional	100		X	X		X	X

Target groups:

1. Owners, tenants, building managers and building administrators
2. Public administrations in relation with building management and energy in buildings
3. Technicians: engineers, architects and energy auditors
4. Construction companies
5. Financing agents
6. NGOs