

Vitoria-Gasteiz

Regional Action Plan

Regional Action Plan to Support Energy Transition in Housing and
Public Municipal Facilities

Section I – General Information

Project: INTENSIFY. More Carbon Reduction through Intense Community Engagement

Organisations involved: ENVIRONMENTAL STUDIES CENTRE OF VITORIA-GASTEIZ CITY COUNCIL (CEA), VITORIA-GASTEIZ CITY COUNCIL (AVG)

COUNTRY: Spain

NUTS2region: ES211

Description: CEA is an autonomous body of the City Council of Vitoria-Gasteiz whose mission is to ensure the sustainability of Vitoria-Gasteiz, promoting the sustainable development of our municipality as a whole and understanding it not as an isolated entity, but linked to its bioregion, the Llanada Alavesa. To this end, its objectives are:

- To guide the collection, management, analysis and use of the best available information for the formulation of more effective urban and territorial policies.
- Analyse the functioning of the municipality (and its bioregion) as an environmental, social and economic system, and use this knowledge for more effective local and regional planning.
- Strengthen municipal plans and programmes aimed at proposing and articulating new, more sustainable city and territory scenarios.
- Promote training, information, awareness-raising and citizen participation in the field of urban and territorial sustainability, ensuring the participation of all social and economic agents involved.

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Section II – Political Context of the Regional Action Plan (RAP)

The Action Plan to support the Energy Transition in Housing and Public Municipal facilities aims to influence:

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

Name of the policy instrument(s) addressed: Vitoria-Gasteiz Plan to Combat Climate Change

The Vitoria-Gasteiz Plan to Combat Climate Change 2010-2020 (PLCCVG) set out a strategy for the municipality of Vitoria-Gasteiz to achieve the objectives set out in the Covenant of Mayors by 2020:

- Reduction of CO₂eq emissions of at least a 20% compared to 2006 city emissions.
- Reduction of CO₂eq emissions of municipal services and facilities of at least a 30% compared to 2006 emissions.

In this document, six different scenarios for 2020 were discussed and different measures were proposed in order to achieve these targets in the different sectors of focus: Residential, Services, Transport, Primary, Water Cycle, Municipal Facilities and Services and Waste Management and Urban Cleaning (in addition to CO₂ sinks).

However, although the aforementioned targets have been successfully achieved, due to the current alarming climate change projections, a revision of the PLCCVG is nowadays necessary in order to reach more ambitious targets in the next period (2021-2030). In addition, Vitoria-Gasteiz has recently (signed on 5 June 2020) renewed its commitments to the new Covenant of Mayors for Climate and Energy for 2030 with the objective of:

- Reduce its greenhouse gas (GHG) emissions in its territory by at least 55% (compared to the base year 2006) by 2030, supporting an energy transition through reduced energy consumption, improved energy efficiency and increased use of renewable energy sources.
- Increase their resilience by adapting locally to the impacts of climate change.
- Share the vision, experience and know-how, and disseminate the results with other cities and regions, both within and outside the EU.

In order to materialise these commitments, the City Council of Vitoria-Gasteiz (AVG) has to draw up a new Sustainable Energy and Climate Action Plan (SECAP) which will correspond to the Vitoria-Gasteiz Plan to Combat Climate Change 2021-2030 (PLCCVG30), and which will be submitted to the Covenant of Mayors for Climate and Energy office within a period of no more than two years from the date of accession.

However, long before this official accession, and through the series of meetings of the INTENSIFY Regional Stakeholder Group (RSG) in 2019, the Environment and Energy Agencies of the Basque Government (namely IHOBE and EVE, respectively), had already committed to support the City Council of Vitoria-Gasteiz, holder of the policy instrument, in the review and update of the PLCCVG in the framework of the INTENSIFY project.

In fact, the process of drafting/co-creating the instrument to update the current PLCCVG had its first milestone with a "scenario workshop" organised in January and February 2020. It should be noted that the active participation of IHOBE and EVE in these workshops was articulated in the INTENSIFY framework and in the aforementioned commitment; moreover, these two key actors have since then continued to collaborate in the co-creation process of the future PLCCVG30 by providing constant feedback in the different steps of the elaboration. Moreover, their involvement ensures the transfer and thus the potential for replication of the future instrument at regional level (Autonomous Community of the Basque Country), where they have the competences in the field of Energy and Environment policies.

In this regard, on 11 February 2020, the Vitoria-Gasteiz City Council and the EVE signed an agreement to work in favour of sustainable energy policies, in the framework of which the press release itself expressly mentioned the INTENSIFY project as one of the instruments for its success.

The new energy and climate action framework that is currently being worked on, and which should also be supported by this RAP, is therefore conceived as an evolution and update of the energy transition and climate change mitigation commitments adopted in the 2010-2020 Plan to Combat Climate Change.

This Action Plan to support the Energy Transition in Buildings and Local Transport in Vitoria-Gasteiz (RAP) includes two actions that support different goals and strategic lines, both of the PLCCVG and the future PLCCVG30, which combine a high expected impact in terms of citizen involvement in the energy transition (the main indicator of INTENSIFY) with the possibility of monitoring substantial progress during the life of the project (Phase 2).

Currently, the two actions that make up the present RAP are being reviewed together with another package of actions that are expected to be incorporated into the new instrument. To this end, during the Summer/Fall of 2021, a participatory process and a citizen awareness campaign on energy transition and climate action are being developed in order to promote the active engagement of citizens in energy transition policies, both actions designed with the support of the INTENSIFY project.

This package of actions is being developed under a new model of governance and participation trying to ensure a proper community involvement, following the strategic planning steps set out in the Cities4ZERO methodology for urban decarbonisation¹. This methodology is committed to an integrated approach to urban and energy planning, which in the case of Vitoria-Gasteiz is specifically translated into the following:

- **A horizontal integration, at sectorial level**, of the strategies and projects promoted by the different departments, bodies and municipal companies, for better coordination between the initiatives of the whole of the Vitoria-Gasteiz City Council (AVG). It is worth highlighting here the coordination with the lines of the new Sustainable Mobility and Public Space Plan and the Master Plan for Urban Regeneration, Eco-rehabilitation and Vitalisation of the neighbourhoods of Vitoria-Gasteiz, which is now under preparation.
- **Integration through intense participation with local agents**, by means of diagnostic workshops, strategic foresight, sectorial contrast of actions and public participation, with the contribution of the different groups that make up the city of Vitoria-Gasteiz (public sector, private sector, research, citizenship).
- **A vertical, multi-level integration**, with the participation of representatives of regional institutions (EVE, IHOBE, VISESA, Basque Government, Provincial Council of Alava); complying with the requirements of Law 4/2019, of 21 February, on Energy Sustainability of the Basque Autonomous Community with regard to the design of Energy Action Plans; and finally, continuing with the European commitment to adhere to the Covenant of Mayors for Climate and Energy.

¹ Cities4ZERO: Overcoming Carbon Lock-in in Municipalities through Smart Urban Transformation Processes
<https://www.mdpi.com/2071-1050/12/9/3590>

The new PLCCVG will replace the current PLCCVG (2010-2020), setting energy and climate policy action for the next decade, affecting the entire population of the municipality of Vitoria-Gasteiz (currently more than a quarter of a million inhabitants). The impact of this RAP on the municipal energy policy set out in the PLCCVG will be monitored and analysed during the second phase of the INTENSIFY project.

Finally, it should be noted that during the development of INTENSIFY a reorganisation of the municipal structure took place, which has led to the creation of a new service responsible for leading the municipal energy and climate agenda. Climate governance in the AVG has been given a new structure within the Department of Territory and Climate Action, but with a cross-cutting vocation, called the Sustainability, Climate and Energy Service, which has been given the responsibility of coordinating the preparation of municipal climate and energy planning, as well as its development and monitoring in the field of mitigation and just transition. This circumstance has not had a major impact on the development of the project, as the CEA has continued to lead the participation of Vitoria-Gasteiz and to coordinate the active involvement of the Energy Agency and the rest of the municipal technical services linked to the project.

Law 4/2019 on Energy Sustainability of the Basque Country establishes the regulatory pillars of this matter in the field of public administrations and the private sector, with the aim of promoting energy saving and efficiency measures, as well as the promotion and implementation of renewable energies. Among other measures, the law establishes that each institution will have an Energy Sustainability Commission.

In this regard, in September 2020, the Mayor of Vitoria-Gasteiz, Mr. Gorka Urtaran, signed the decree creating the Interdepartmental Commission for the Coordination of Energy Sustainability. This new body, the Energy Sustainability Commission of the City Council, has begun its work after this signature. This body will be responsible for the necessary coordination between the different municipal departments that consume energy and have the capacity to manage and spend energy. Specifically, these are the departments of Territory and Climate Action, Mobility and Public Space, Finance and Municipal Administration and Digital Transformation.

Among the functions of the Commission are the creation of an inventory of buildings, vehicles and public lighting installations, the establishment of global energy consumption reference levels and the preparation of the general municipal energy action plan. In this regard, the CEA will provide technical support to this Commission in monitoring the progress of the RAP throughout Phase 2 of INTENSIFY.

Section III – Details of the planned actions

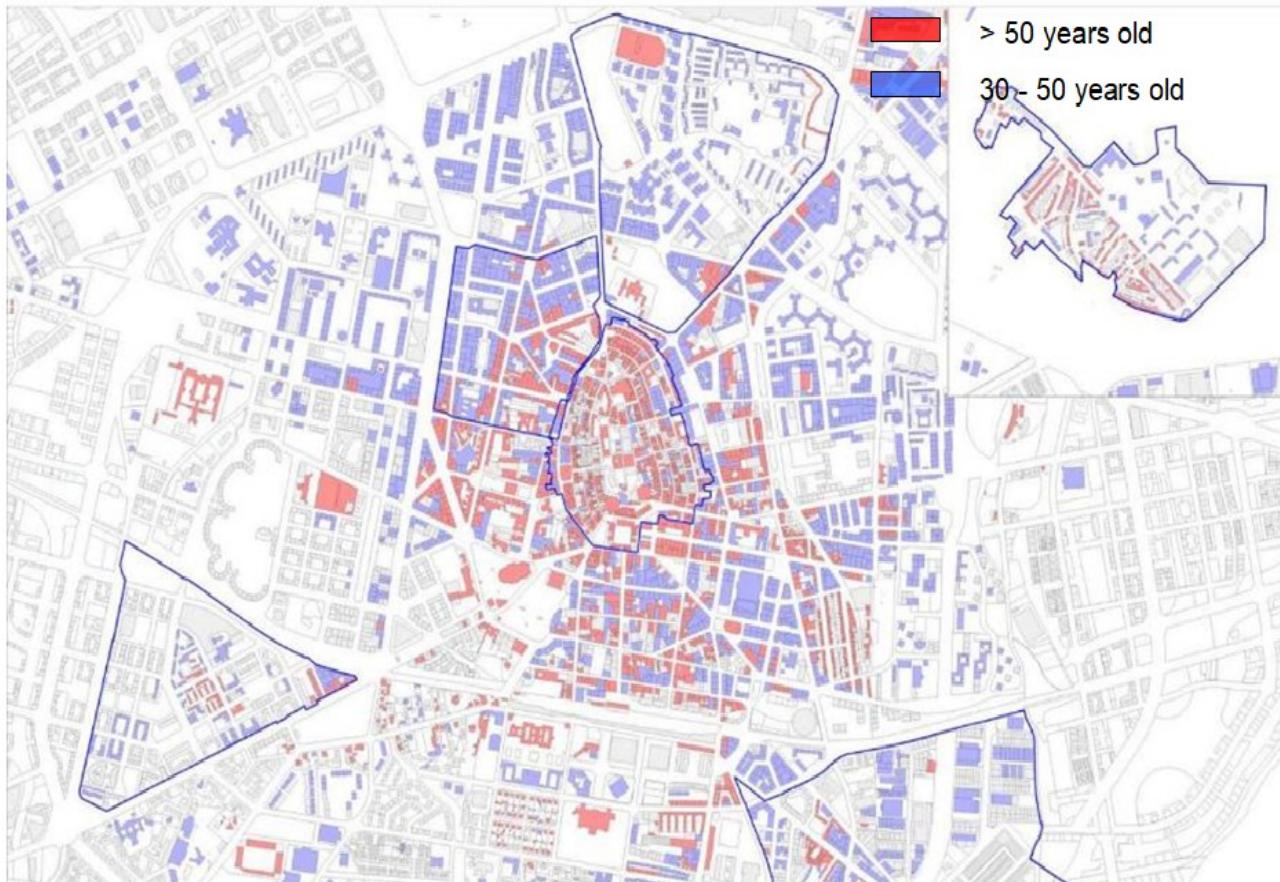
ACTION 1

Name of the action: ENERGY REHABILITATION PROGRAMME FOR PRIVATE BUILDINGS.

Relevance to the project: The Basque Country has one of the oldest housing stock in southern Europe, with 57% of residential buildings built between 1940 and 1980. Those years were a period in which current housing regulations did not require the incorporation of insulation in the building envelope, so most of these buildings were constructed without energy efficiency criteria. These dwellings have indoor living conditions that are far from what is today considered adequate in terms of comfort, with high heating demand and energy consumption, which in turn translates into high CO₂ emissions.

Of the total energy consumption of dwellings, 56% is due to air conditioning. Domestic hot water, electrical appliances, cooking and lighting, in that order, account for the rest. Thus, the reduction of energy consumption and the use of renewable energies in the residential sector is an important measure to reduce the energy dependence of Vitoria-Gasteiz and to achieve the objectives set out in the 2050 Basque Climate Change Strategy and in the Vitoria-Gasteiz Plan to Combat Climate Change (PLCCVG).

The fact is that many dwellings are in buildings that are more than 40 years old, with elderly owners and with few economic resources to undertake improvement works. Faced with the need to promote both the regeneration and rehabilitation of the built heritage and the existing socio-economic situation, Vitoria-Gasteiz has begun to work on different lines of action in terms of rehabilitation and urban regeneration, working together with VISESA (Public Society dependent on the Basque Government for the Promotion of Public Housing and Urban Rehabilitation/Renovation), the EVE (Basque Energy Agency) and the Municipal Society for Land and Rehabilitation of the Vitoria-Gasteiz City Council (Ensanche 21).



Map showing the age distribution of the housing stock

In addition to the RSG meetings and the current PLCCVG review process, AVG, CEA, IHOBE and EVE are part of the H2020 SMARTENCITY project, through which the urban regeneration of one of the city's oldest neighbourhoods - Coronation - has been underway since 2015 (until summer 2022). This project includes an extensive rehabilitation programme, partially funded by the EU, affecting more than 300 dwellings, accompanied by an important process of citizen participation. This experience has been paramount in preparing the measures included in this second Action. In fact, this case has been presented as a Best Practice and has received significant attention from the INTENSIFY consortium; in this sense, Vitoria-Gasteiz organised a virtual study visit to the project (2 July 2020 with the assistance of CEA, AVG, EVE and IHOBE) which was open to the entire consortium and which also included presentations on the subject by two other H2020 projects (namely AGREE and OPENGELA), which were of interest to both the city and the consortium as a whole. As a result, Cork expressed its interest in learning more about the AGREE project, through which the energy refurbishment of another neighbourhood in Vitoria-Gasteiz is being tackled, and so a second specific study visit took place on 29 January 2021, focusing on the strategy of citizen involvement applied to the AGREE.

At the same time, and within the INTENSIFY partners, the Vitoria-Gasteiz RSG expressed a special interest in the case of Cork when dealing with urban regeneration, including energy rehabilitation, in order to incorporate its knowledge into Vitoria-Gasteiz's own mitigation and energy transition strategy and the support that this RAP should provide for it. In fact, on 14 January 2021, a virtual visit to Cork was scheduled to learn in detail about its relevant projects in the field of refurbishment of community buildings and urban regeneration of neighbourhoods, with the assistance of CEA, AVG, Ensanche 21 and VISESA.

The different initiatives to improve energy efficiency and rehabilitation in different residential areas such as Sunview, Charles Day Road, ArdBhaile Glennamoy Lawn, Wolfe Tone street, Harbour View Road, or those planned, for example, in Noonan Road or Pearse Road, were of special relevance for our local partners, sharing part of the problems and challenges they have to face, as well as the experiences shared with Cork, on the AGREE project that is being developed in Vitoria-Gasteiz.

Among the experiences of urban residential refurbishment addressed within OPENGELA in Bilbao or Eibar, which were the subject of the virtual study visit carried out by our city on 29 January 2021, the "one-stop shop" tool was one of the elements that aroused most mutual interest. Vitoria-Gasteiz has already developed it in the pilot project for residential energy rehabilitation in the Coronación neighbourhood, as have Eibar and Bilbao within OPENGELA. Cork is also studying the creation of a virtual and/or physical "one-stop shop" in the framework of the UPSTAIRS project. This is undoubtedly a line of collaboration of special relevance and potential for Vitoria-Gasteiz with a view to the materialisation of the development of a Master Plan for Integral Urban Rehabilitation.

Some of the Cork projects, such as SHAPES, have also been identified as being of particular interest to support this Action 2 in terms of diagnosing the least energy efficient buildings as well as vulnerable dwellings for prioritisation in the implementation of retrofitting schemes.

Description of the action

This action encompasses several measures, which are directly or indirectly linked to the energy refurbishment of private and public buildings.

Leaving aside the industrial sector, where the city has no energy competences, together with the electrification of mobility, the energy refurbishment of the existing building stock has the greatest potential in the city to reduce CO₂ emissions by reducing both energy losses and energy demand.

It also offers the potential to significantly increase renewable energy generation (especially through the potential of rooftops to use solar energy) and to transform citizens from consumers to "prosumers". It therefore represents the second action block of this RAP. Unlike the previous action, where the funds are essentially public, in this second action this would only apply to the energy refurbishment of public buildings, where the potential for energy demand reduction is relatively low compared to the private counterpart, although it is essential as an exemplary function for the involvement of citizens in the city's energy transition and climate action challenges.

With regard to private buildings, the commitment of citizens is very important, as most of the funds must come from private property; therefore, after the experience of our city with this kind of processes (SmartEnCity, AGREE), it has been considered essential to promote the participation of the community, together with the rest of the social and economic agents, in the process of reviewing the local energy transition strategy to be included in the update of the PLCCVG. To this end, during this first half of 2021 an intense awareness campaign and a participatory process has been developed, the contents and approaches of which have been developed within the framework of the CEA's technical participation in the INTENSIFY project.

The impact of these campaigns, among others along the same lines, will be determined during Phase 2 of the project, but it is expected to increase the number of neighbours actively engaged in energy transition policies and in energy rehabilitation of private buildings at a neighbourhood scale.

In more detail, the measures envisaged to be implemented within this action in this RAP are:

- The development of a Master Plan for Integral Urban Rehabilitation (under preparation)
- The development and implementation of a one-stop shop for urban regeneration and energy rehabilitation processes.

The action contemplates the identification, socio-urban characterisation and diagnosis of the residential buildings with the lowest energy efficiency, as well as the most vulnerable dwellings, with a view to establishing priorities in the execution of the energy rehabilitation and urban regeneration plans to be developed, especially the existing buildings in the Old Quarter of the city, classified as a Comprehensive Rehabilitation Area (CRA) and within the Degraded Areas (DA) located in 9 of the so-called Golden Districts (Abetxuko, Adurza-San Cristobal, Arana, Ariznabarria, Coronación, El Anglo, Judimendi and Zaramaga).

This action also aims to consolidate a strong and transparent governance together with the community through the use of citizen involvement techniques and with the rest of local stakeholders (SMEs, financial institutions, energy agencies, etc.) in order to facilitate the proper implementation of rehabilitation projects.

Aim of the action:

The aim of this first action is to act on an important part of the 11,335 dwellings (10,858 collective and 487 single-family dwellings) located in the neighbourhoods of Old Quarter, Abetxuko, Adurza-San Cristobal, Arana, Ariznabarria, Coronación, El Anglo, Judimendi and Zaramaga. It is planned to improve the thermal performance of buildings constructed prior to NBE-CT-79, based on the refurbishment of the envelope and the introduction of efficient installations, as well as the susceptible installation of renewable self-consumption systems and, where possible, the electrification of demand; with the aim of achieving a zero-emission building stock. 2.200 dwellings are expected to be rehabilitated by 2023.

To support the rehabilitation and municipal land company Ensanche 21 in its consolidation as a "One-Stop-Shop" to provide information, technical advice, management, structuring and financial support and even the monitoring of savings in urban regeneration and energy rehabilitation processes it is also another of the objectives of this action.

The implementation of such a one-stop shop service could lead to an increase in the number of procedures carried out per month by the administration and a reduction in waiting times for obtaining the permits required for projects related to the energy transition.

Monitoring indicators:

- ID 01: Number and percentage of rehabilitated dwellings per year.
- ID 02: Savings (energy and emissions) per dwelling and overall (annual).
- ID 03: Financing mobilised (public and private breakdown) overall and by block/housing
- ID 04: Number of actions carried out (buildings/homes/premises/etc).
- ID 05: Surface area in m² of the actions processed.

Barriers identified: Legal-administrative, technological, technical training, resistance to change and innovation, fragmentation of building ownership and, in particular, financial and public awareness.

Links with other plans:

- Master Plan for Urban Regeneration, Ecorehabilitation and Vitalisation of the neighbourhoods of Vitoria-Gasteiz (under preparation).
- General Urban Development Plan of Vitoria-Gasteiz (under revision).

Technical responsibility and coordination:

- Master Plan for Urban Regeneration, Ecorehabilitation and Vitalisation of the neighbourhoods of Vitoria-Gasteiz: Ensanche 21.
- General Urban Development Plan of Vitoria-Gasteiz: Vitoria-Gasteiz City Council.

Jurisdiction: Municipal

Stakeholders involved in the implementation of Action 1:

The Vitoria-Gasteiz City Council is the main stakeholder involved, mainly through the Municipal Society for Land and Rehabilitation (Ensanche 21).

At the public level, the role of the Basque Government, through its Public Society for the Promotion of Public Housing and Urban Rehabilitation/Renovation (VISESA) and its Basque Energy Agency (EVE) also seems clear, especially with regard to ordinary aid programmes.

On the private side, private owners are a key stakeholder for the materialisation of the action 1.

Schedule foreseen for the implementation of action 1:

The interventions included in this action are planned to run from 2022-2023 with an overall evaluation at the end of this period to help shape the strategy and work plan for subsequent years.

Indicative costs and sources of funding:

The investment per dwelling for the development of the action has been calculated to be:

- Integral refurbishment of the building = 18.000 – 25.000 € / dwelling
- Change of heating and DHW system = 3.000 € / dwelling
- Incorporation of renewables: Photovoltaic = 1,200 €/kWp installed
- Connection to district network = 8.500 € / dwelling

Of this, 65% will be private (facilitated by access to public funding), while the remaining 35% will come from public contributions, of which one third could be non-repayable grants.

The development of One Stop Shop is planned to be undertaken largely within the existing technical resources of the Ensanche 21 Society.

These measures are clearly aligned with the energy transition strategies at regional, national and European level and can partly benefit from existing and forthcoming support instruments.

Action 2

Name of the Action: IMPLEMENTATION OF ENERGY TRANSITION MEASURES IN PUBLIC MUNICIPAL FACILITIES

Relevance to the project:

In order to comply with the Basque Energy Sustainability Law, Basque public administrations are obliged to integrate energy sustainability actions into their public policies. The aim of these actions will be to reduce annual energy consumption and promote the implementation of renewable energy installations.

The thematic event #4 in Vitoria-Gasteiz held on May 21-22, 2019, counted with several presentations on

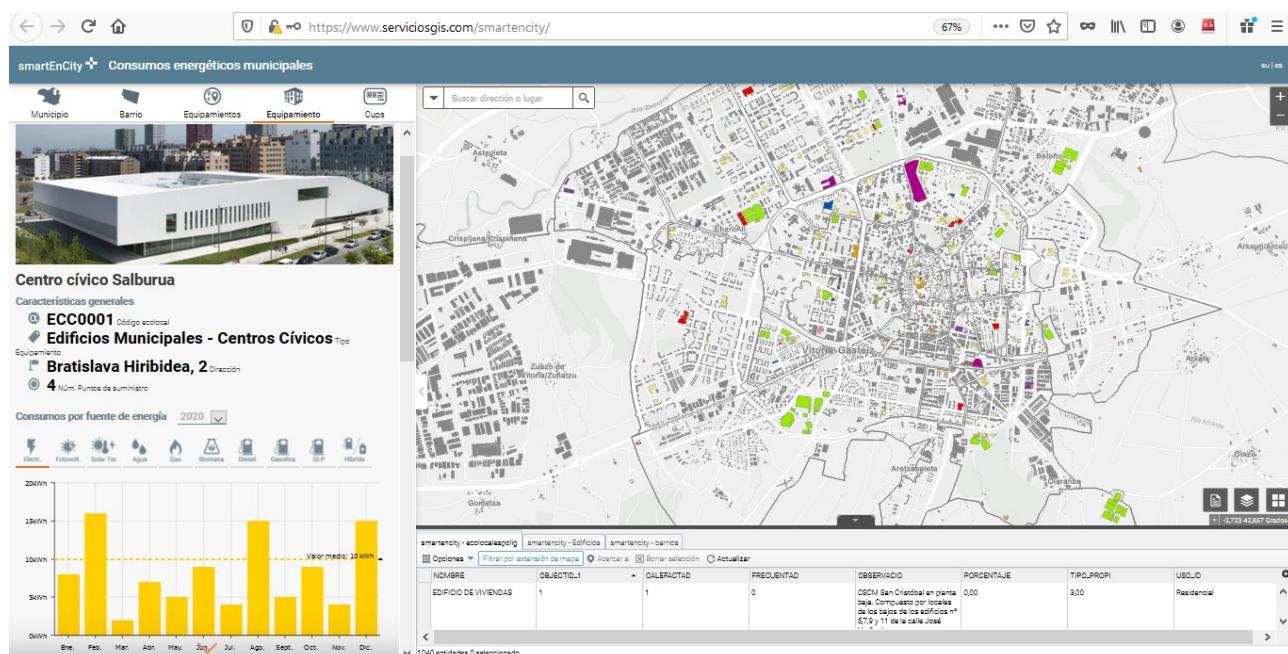
digital social platforms, which broaden our perspective to new possibilities and to understand to what extent the use of this tool could achieve a greater impact on the degree of citizen engagement dealing with energy transition. Among them, Vanessa Pulgarin, representative of ERVIA (Ireland's natural gas and water utility company), showed us how to design a "call for action", through the use of social networks, blogs or using influencers or frontrunners.

Also, at this event, Theo Fernandez from the company Chimp in his presentation on the digital social platform POWER H2O20, a project in which our partner in INTENSIFY Milton-Keynes participates, made it clear that a DSP is not only a platform that provides information to citizens, but one that has tools that enable their participation in key elements for the decision-making process.

The study of the structure and content of the POWER Water communities platform, although it is fundamentally oriented to the reduction of water consumption, and the site visit offered by our partner Milton-Keynes, specifically dedicated to this DSP and carried out on 24/06/2020, has served as a reference when designing this RAP action. We have obtained valuable information on how important it is to define the target audience, how to keep visitors browsing the site for as long as possible, and what type of publications receive the most attention, among others.

Description of the action:

This way, citizen involvement in energy efficiency and emissions reduction in municipal buildings for public use will be supported by a on-line digital viewer of consumption of municipal facilities and services as a section on the municipal website inspired by the Digital Social Platforms, with functionalities focused on achieving citizen involvement and participation in the reduction of consumption and CO₂ emissions. This viewer will reflect the efforts and achievements of the City Council of Vitoria-Gasteiz in the energy transition strategy and will be aimed at changing the behaviour of citizens and provide them with tools to guide them and help them in the move to action in the fight against climate change.



Public Facilities Energy consumption viewer (in progress).

Moreover, this section will have a link to the citizens' mailbox, a tool for citizen participation, where anyone can interact with the City Council, making proposals and/or raising questions or complaints. A specific topic dedicated to energy transition will be created in the environment and sustainability thematic area of the mailbox.

The Basque Energy Sustainability Law obliges Basque public administrations to draw up inventories, carry out energy audits and monitor their consumption. This action will define the necessary measures in public buildings and municipal furniture to promote this energy transition. These projects can be grouped into:

- Renewable generation and electrification projects in public buildings.
- Progressive refurbishment of the thermal envelope of municipal buildings, both owned and in use, including, where appropriate, educational buildings, sanitary buildings, old people's residences and sports facilities, as well as administrative or management buildings.
- Control of the consumption of public buildings following an inventory of all buildings (characteristics, energy consumption systems - powers, operating hours, load factors, energy sources and consumption) and the implementation of energy control systems that also allow the monitoring and evaluation of operating control parameters.
- Renewal of boilers in municipal buildings, facilitating the incorporation of renewable energies. Regular monitoring of the thermal installation contract.
- Installation of more efficient solutions in premises with high electricity consumption and microgeneration turbines in centres with high thermal consumption.

Aim of the action:

The Basque Energy Sustainability Law aims to reduce GHG (Greenhouse Gas) emissions by 40% and improve energy efficiency by 32.5%. The main objective of this action is to define the projects to be carried out to improve energy consumption in municipal buildings and facilities and the generation of renewable energy together with a proper community engagement in order to support measures implementation.

The specific objectives of this action include:

- Improve the envelopes, systems and interior lighting of municipal facilities, affecting a total surface area of 60,000 m² to be rehabilitated by 2023
- Incorporation of 1.80MW of new biomass boilers to reach 10,40 GWh/a by 2023
- Installation of 2MW of solar photovoltaic to produce around 2,060 MWh/year.
- Incorporate solar thermal panels 100m²
- Implementation of presence detectors and limiters of light intensity, focusing of lighting in workplaces, replacement of LEDs.
- Monitoring, follow-up and improvement of the control of energy systems in public facilities.
- Improve community engagement in the implementation of energy transition measures strategy in local public facilities.

Monitoring indicators:

- ID 06: Energy consumption (kWh/year) in municipal buildings and equipment.
- ID 07: Renewable energy production (kWh/year) in municipal buildings and equipment.
- ID 08: Number of visits to viewer tool
- ID 09: Number of publications in the citizen's mailbox and number of responses from the City Council dealing with energy transition measures in public facilities.
- ID 10: Surface area of municipal facilities (m²) rehabilitated

Barriers identified: Legal-administrative, technological, technical training and especially financial.

Links with other plans:

- Law on Energy Sustainability in the Basque Country.

Technical responsibility and coordination: Department of Municipal Administration and Digital Transition / Department of Territory and Climate Action.

Jurisdiction: Municipal

Stakeholders involved in the implementation of Action 2:

The Vitoria-Gasteiz City Council is one of the main stakeholder involved, mainly through the Department of Territory and Climate and the Department of Municipal Administration and Digital Transition.

At the public level, the role of the Basque Government, through its Basque Energy Agency (EVE) also seems clear, especially with regard to ordinary aid programmes.

Schedule foreseen for the implementation of action 2:

The measures included are planned to run from 2022-2023, with an overall evaluation at the end of this period to help shape the strategy and work plan for subsequent years.

Indicative costs and sources of funding:

For this second action, in a 2023 scenario, a budget of 15 million euros is estimated, with a payback period of 300 months, a budget that only considers the refurbishment of the envelope, lighting and air conditioning systems, leaving out other aspects such as monitoring or the implementation of intelligent management and control systems.

These measures are clearly aligned with the energy transition strategies at regional, national and European level and can partly benefit from existing and forthcoming support instruments.

Date: 26th November 2021

Name of the organisation(s):

Ayuntamiento de Vitoria-Gasteiz / Vitoria-Gasteiz City Council

Signatures of the relevant organisation(s):

Andrés Alonso López

Jefe del Servicio de Sostenibilidad, Clima y Energía

Departamento de Territorio y Acción por el Clima del Ayuntamiento de Vitoria-Gasteiz



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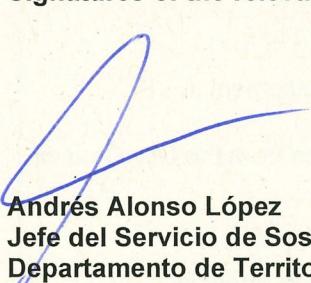
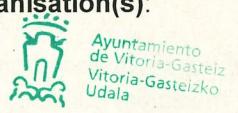
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Vitoria-Gasteizko
Udala
Lurraldearen eta Klimaren
Aldeko Ekintzaren Saila
Departamento de Territorio y
Acción por el Clima
Andrés Alonso López
Jefe del Servicio de Sostenibilidad, Clima y Energía
Departamento de Territorio y Acción por el Clima del Ayuntamiento de Vitoria-Gasteiz