



WP4 – Task Forces’ Interventions

D.4.1.3

Final report on results of task force interventions

Aim of the Task Forces is to provide support to little and medium-sized purchasing organizations (P.O.) for the implementation of interventions of Green Public Procurement related to the energy sector, in order to obtain energy efficiency and CO₂ reductions and to build – up skills among local staff so to promote further replication of GPP in the public sector. The results obtained in terms of energy savings and CO₂ reduction will contribute to reach the targets of the EU 2020 strategy and, in the long run, the promotion of the GPP approach in the target regions will positively influence the development of the local markets towards sustainable development.

The Task Forces of the 6 target regions are composed by staff members of the project partners with the participation of external experts and stakeholders (aimed to provide training, technical support and to promote networking), this means in general 5-15 people directly working together under the coordination of the TF leaders (LEIF, REA, RAEE, ESS, ZEA, LIG) benefiting from further support provided by ICLEI.

According to the specific situation, the Task Forces have carried on different activities aimed to the implementation of the interventions which, beyond specific technical activities (like identification of environmental criteria to be inserted in the tenders and evaluation of effective solutions for implementation of energy efficiency), varied from awareness rising and GPP training, to legal support, to collaboration with suppliers and existing GPP networks.

Preparatory activities for interventions

Engagement of project beneficiaries

During the first project period the list of beneficiaries selected at the beginning of Primes has been revised according to the ongoing situation in the partners’ territories so that new participants have been involved and are now committed to the project activities (see the list below). So far 68 public authorities or groups/network of public institutions are engaged in Primes and have provided their formal adhesion to the project; the majority of beneficiaries are Local Administrations or network of Municipalities, most of which are committed to the CoM, while others are territorial institutions, like Regional and County Authorities, or local/regional procurement authorities (like schools or public organizations).

Project beneficiaries

Target region	Public purchasing organization involved in Primes	Formal commitment
Zealand 6	Holbæk Municipality, Roskilde Municipality, Slagelse Municipality, Guldborgsund Municipality, Lolland Municipality, Region Zealand, SK forsyning (utility company of Slagelse)	7
Latvia 6	Tukums Municipality, Valka Municipality, Preiļi Municipality, Grobina Municipality, Carnikava Municipality + extra more Adazi municipality, Liepāja municipality, Daugavpils municipality, Lielvarde municipality. 2 state/municipal organisations - JSC Latvenergo and State Regional Development agency.	9
N. Croatia 3	City of Koprivnica, City of Krizevci, General hospital dr. Tomislav Bardek, Community Health Center Otočac	4
Rhône-Alpes 14	Région Rhône-Alpes, Département du Rhône, Département de l'Isère, Département de la Savoie, Agglomération de Bourg en Bresse, Roannais agglomération, 18 - City of Bourg en Bresse, City of la Motte Servolex, City of Ax les Bains, SDH (public social housing organization), Regional network on green gas, Association des acheteurs publics, Cluster Lumière, Pole de compétitivité transport et systèmes de mobilité, Chamber of Commerce Lyon, Working group on green electricity Sigerly (energy union)	18
Blekinge and Kronoberg 9	Alvesta Municipality, Borgholm Energy, Kalmar Municipality, Karlskrona Municipality, Ljungby Municipality, Mörbylånga Real Estate, Mörbylånga Municipality, Nybro Municipality, Oskarshamn Energy, The Region of Kronoberg, Sölvesborgs Municipality, Torsås Municipality, Västervik Municipality, Växjö Municipality, Älmhult Municipality	9
Liguria 20	Albenga, Calizzano, Celle Ligure, Quiliano, Tovo S.G, Urbe, Vado Ligure, Montoggio, Moconesi, Dolceacqua, Seborga, Taggia, Castelnuovo magra, Rocchetta vara, Varese Ligure, Diano Arentino, Mendatica, Arcola, Plodio, Borgio Verezzi, Santo Stefano al Mare	21

Analysis of the potential for interventions

During the first project period all partners have carried out preparatory activities aimed to identify the potential for implementation of interventions in each region: TF have analysed the current framework of GPP at local/regional/national level (existing regulatory framework, level of GPP experience in public organizations, diffusion of energy specifications, energy labels and green criteria, opportunities offered by the markets, existing barriers to GPP) and have made an assessment of the specific situation of the beneficiaries through the identification of their competences in GPP, the analysis of their procurement plans and the evaluation of their energy strategy, in order to set up an activity plan tailored on the real needs of the PO.

This analysis has revealed that beneficiaries within the PRIMES target regions have a very different level of experience on GPP because, for example, while in Sweden green procurement is a priority for public administrations since many years, there are other situations like in Latvia or in Croatia where GPP is a completely new approach; this means that the administrative, legal and technical framework for implementation of GPP in the 6 regions is very different, as well as opportunities and barriers. This diversity

has been addressed by each TF in a specific way and it has represented an important occasion for knowledge sharing and experience exchange among the Primes partnership.

Indeed, during all the project lifetime, TF have faced several challenges to the implementation of the project activities, due to the difficulty of beneficiaries to deal with complex/innovative procurement procedures (technical level) and to commit for the finalization of interventions (political level), to non-availability of green products and services on the local markets, to the existence of previous binding contracts still running and, most of all, due to the lack of funding to implement the interventions; these problems are generating delays in the schedule of the actions in all the partners' regions.

Although this, in the last month of the project, all the TFs worked hard to find tailored solutions in order to catch up with the implementation of activities.

In conclusion the number of Public authorities involved and committed is higher than expected and the TFs developed a big number of interventions: the Municipalities demonstrated a big interest in the project and, close to its end, also thanks to the dissemination activities developed at EU, national and regional level and the publication of the case studies on the project website, partners have been contacted by new Municipalities that would like to be part of the project activities. This is very interesting for the future development of the activities on GPP: in fact the PRIMES project has been able to draw focus the Public Authorities attention on the theme of Green Public Procurement and the experience of the Municipalities committed in PRIMES could represent a starting point for new projects on GPP.

Activities

General overview

During the lifetime of the project, 68 municipalities have been involved and committed by partner regions, out of an overall target of 58.

As detailed in the table below, 156 TF interventions have been finalized while 12 are still ongoing. The target of 114 Interventions has been achieved.

	Finalized	On going	Total
Liguria	22	0	22
Rhône-Alpes	19	0	19
Northern Croatia	20	0	20
Zealand	17	8	25
Latvia	16	4	22
Blekinge and Kronoberg	59	0	59
TOTAL	155	12	167

The main activities of the TF have been dedicated to support the beneficiaries in the selection of categories for green procurement, in the planning of projects for the improvement of energy efficiency, in the identification of environmental specifications to be included in the tenders (energy labels, technical

specifications, certificates of origin for renewable energy, awarding criteria), in the calculation of CO₂ and energy savings through the comparison with pre-intervention status, in the quantification of money savings according to the LCA and in the identification of specific administrative procedures to implement and finance and the interventions.

Moreover, partners have organized around 100 regional meetings dedicated to the beneficiaries, thus involving in project activities 800 representative of PO and other stakeholders (local and regional clusters, other purchasing authorities at regional/national level, public networks and GPP facilitators) in order to rise awareness and commitment to GPP, most of all among decision makers, to promote knowledge sharing, through training sessions and local workshops, and to foster the effectiveness of Primes activities thanks to synergies with other initiatives (Covenant of Mayors, other EU project like “GPP 2020”) and collaboration with suppliers (especially in the region of Rhone Alpes and in Sweden).

Here below a summary of the activities developed in the target regions.

TF interventions in the partners' regions

Northern Croatia

4 municipalities committed – Target 3 - ACHIEVED

20 TF interventions finalized, 0 TF interventions ongoing, 0 TF interventions planned - Target 15 ACHIEVED

7 group trainings for procurers organized during the Primes project

3 dialogs with suppliers finalized

At the early beginning of the PRIMES project municipalities in Croatia were in a need to develop knowledge and skills to implement GPP. As all municipalities and local public organizations nationwide were in the same position, there was a small number of GPP examples in practice available at the national level and GPP was focused mainly on municipalities that have signed Covenant of Mayors and have developed or are currently developing SEAPs.

Main needs of Municipalities are to understand what GPP really means and what groups of products can be included in GPP, to inform public organizations about benefits from green procurement but also about energy efficient products and services (there is lack of knowledge about supply of green products on the market), help them to prepare technical specification and set the contracting award criteria, to improve political will, convince staff to commit to GPP and provide huge number of helpful information for procurement and technical staff, also for higher level staff (decision makers). An essential element is to involve all levels of municipality staff into green public procurement, provide support to technical and procurement staff and educate new procurement staff members on GPP in accordance with national law and procurement legislation.

Despite the general lack of experience among PO, thanks to the effective work implemented in the last years by Rea North and UNDP for awareness rising and capacity building on GPP, the Task force has been able to build on the work implemented so far and obtain important results. Thanks to PRIMES project today we have more examples of good practice and experience to share. After few successful green tenders realized through Primes project there is obviously increase of interest and bravery in GPP.

The Task Force focuses its services on municipalities that have signed Covenant of Mayors and developed or are currently developing SEAPs and other public institutions that acts as public procurers such as General Hospital dr. Tomislav Bardek and Community Health Center. It provides support to municipalities and public organizations, which are financed through municipalities' or counties' budgets. Primes beneficiaries in Croatia are two cities (City of Krizevci and City of Koprivnica), General Hospital dr. Tomislav Bardek and Community Health Center Otočac as public purchasing bodies. All have signed Letter of Intent to become beneficiaries. Task Force interventions are organized as a combination of general GPP training in groups and individual assistance on specific needs.

TF has organized meetings with procurers and went through their procurement plans: some specific subjects have been identified for green procurement and have been discussed with decision makers (GPP benefits were deeply explained because the commitments of politicians is key for the implementation of the activities), procurement and technical staff and heads of departments.

The services for project beneficiaries have been offered as a combination of general GPP training in groups and individual assistance on specific needs. Group trainings on green public procurement for municipalities were organized in cooperation with UNDP Croatia together with trainings within GPP2020 project. Group



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trainings were held by external expert in the field of public procurement. Trainings were organized as workshops where all procurers (from both projects) were able to share their experience and good practice examples.

Also external public procurement expert was engaged in preparation and implementation of specific procurement procedures. External expert in field of public procurement was needed to ensure and proceed procurement according to national procurement legislation.

Besides group trainings, an individual education was provided for three employees in City of Koprivnica and one for REA North staff who were involved in preparation and implementation of each purchasing process.

During three years of project, Primes' beneficiaries have launched and realized 20 tenders:

- Green electricity – 4 tenders
- IT equipment – 3 tenders
- Green bus – 1 tender
- Solar thermal system – 3 tenders
- Windows replacement – 2 tenders
- Recycled paper – 1 tender
- PV – 1 tender
- Reconstruction of heating system – 2 tenders
- Reconstruction of heating system including heat pumps – 1 tender
- Indoor lighting – 1 tender
- Energy retrofitting of roof – 1 tender
- 3 joint procurements were realized

Depending on investment volume, some of tenders were realized according to national Public Procurement Act (all tender documentation available on the official Croatian Public Procurement Portal) while others (low investment procurements) were realized according to internal procurement act as call for tenders.

Total investment volume of launched and realized tenders is 1.841.000,00€. The amount of estimated energy savings of all implemented interventions is 285 toe /year energy savings. The amount of RES triggered for all tenders in total is 823toe/year est. Savings for all tenders in total is 4.361,00 t CO₂e/year est.

City of Koprivnica (31.000 inhabitants, one of first in Croatia to have signed the Covenant of Mayors initiative in 2010) has realized GPP as follows:

- A green public tender for joint green electricity supply (1 year-2014) in 7 public buildings and street lighting. This being one of the first tenders for green electricity to be let in Croatia (an important result in the framework of PRIMES). The minimum percentage of RES electricity required has been fixed at 20% but at the end the tender has been awarded with 100% RES electricity (investment ab. 193.500,00 €). The green electricity procured is around 3.550 MWh for all institutions, meaning CO₂ savings 1.333,85 tCO₂/year (according to IPCC standard with 0,376 tCO₂/MWh emission factor for electricity in Croatia). This tender has been replicated by the municipality also for the 2015 year establishing 30% as minimum percentage of RES electricity (instead of 20%) and involving in the joint procurement for more public institutions (3.723 MWh of green electricity for public institutions 100% from RES).

- A green public tender for IT devices. Aiming to buy energy efficient equipment, the Municipality has included green criteria in technical specification of IT equipment on the basis of eco-labels in year 2014 and 2016. As result all the equipment were provided at the lowest price (20.000€ in total) with Energy Star eco label, producing an energy saving of 0,09 toe/year est. and CO₂ reduction of 0,4 tCO₂/year est.
- A green public tender for the procurement of 2 electric buses for an investment of about 186.700 €. Thanks to the procurement of electric buses, compared to a convention solution this intervention generated an energy saving of 1.166 GJ with a reduction of 61 tCO₂.
- A green public tender for the joint procurement of solar thermal systems in the Kindergarten Traticica and in the Center for education and rehabilitation. The Task force has done the application for co-financing from Environmental Protection and Energy Efficiency Fund and prepared the tender with technical specifications. Each intervention involved an investment volume of 9.200€, a RES production of 1,35 toe/year and a reduction of 3,15 tCO₂/year.
- A green public tender for the purchase of 100% recycled paper (according to the criteria of the Blue Angel RAL-UZ-14 or equivalent) involving an investment volume of 5.823€. (16 998 kw/h energy savings; 5,3 t CO₂ savings)
- Windows replacement in the Primary School Braca Radic - investment volume of 65.800€. (Savings P Energy 13,6136 toe/year est., Savings 46,96 t CO₂/year est.)
- Reconstruction of heating system with implementation of heat pumps – investment 60.000,00 EUR, Savings P Energy 0,7588 toe/year, Savings 1,03t CO₂e/year est.
- Indoor LED lighting in Primary School Antun Nemcic Gostovinski – Investment 14.600,00 EUR, Savings P Energy 1,45606 toe/year, CO₂ savings 8,92 t/year est.

For that concerning the General Hospital dr. Tomislav Bardek (a public building with a procurement department independent of other public institutions), the Deputy Manager has been involved in the whole process and training was provided for hospital technical and procurement staff regarding to their needs. In total the following interventions have been implemented in the building:

- Green public tender for the procurement of solar systems (replacing gas – fuelled systems): the TF has prepared the application for co-financing from Environmental Protection and Energy Efficiency Fund and prepared the tender with technical specifications. The intervention involved an investment volume of 48.000€, a RES production of 5,33toe/year and a reduction of 12,1tCO₂/year.
- Green public tender for the replacement of 45 old windows. The TF has prepared the application for co-financing from Environmental Protection and Energy Efficiency Fund and prepared the tender with technical specifications. Unfortunately the windows replacement was not related to the whole building because of lack of money. The intervention involved an investment volume of 48.000€ an energy saving of 2,83toe/year and a reduction of 9,88tCO₂/year.
- Energy retrofiting of roof – investment volume 142.500,00 EUR, Savings P Energy 45,4 toe/year est., Savings t CO₂e/year est. 140,79 t
- Reconstruction of heating system – investment 541.300,00 EUR, Savings P Energy toe/year 216,77 toe, Savings t CO₂e/year est. 509,15 t

With reference to the City of Krizevci, it didn't engage in green tender because of lack of political will till the end of 2015. Finally City of Krizevci have launched its first green tender in December 2015 and IT equipment in 2016.

- A green electricity supply (1 year contract). The minimum percentage of RES electricity required has been fixed at 20% (investment ab. 155.000,00 € excluded VAT). The green electricity procured is around 2.392 MWh, what is savings around 151 tCO₂/year CO₂. This tender has been published by the City of Krizevci thanks to good example of previous green energy tenders launched by City of Koprivnica (also within Primes project). This case proves that dissemination of good practice of GPP at national level encourages other public authorities to take action and engage in GPP.
- IT equipment – investment volume 133.000,00 EUR, 0,088 toe/year est., 278 kg CO₂ savings/year est.

Community Health Center Otočac

- Reconstruction of heating system – investment volume of 5.600€. (Savings P Energy 0,69 toe/year est., Savings 2,11 t CO₂/year est., RES triggered 2,4 toe/year est.)

REA North as central public purchasing body has realized joint procurement of green electricity for eleven municipalities with their budget users – 29 public procurers in total. Award criteria was Most Economically Advantageous Tender with minimum 30% electricity from RES. Contract value excluded VAT 146.800,00 EUR. CO₂ savings 642 t/year, RES triggered 147 toe/year est.

Zealand (Denmark)

In advance 5 municipalities, 1 region and one supply company committed. All 17 municipalities of the Region has been reached – Target 6 - ACHIEVED

7 TF intervention finalized + 10 delivered + 8 ongoing- Target 20

6 trainings organized

Arrangements with suppliers: Two TCO workshops and four events where suppliers were invited to participate.

The Danish beneficiaries present the following features: the procurement function is organized as an independent department in each municipality. The procurers are well trained in the legal framework and focused on the objective to emphasise the criteria "value for money" in terms of price and quality. Environmental/energy issues are also considered where feasible, however the financial criteria and objectives are prioritized. One of the primary reasons is poor knowledge on climate- and energy issues in the procurement department. Further, the procurement management lack tools and motivation to follow up on GPP strategies and procurement officers' implementation of these strategies in specific procurements. Several difficulties in the implementation of GPP are also due to the complexity of procurement procedures and the lack of coordination among departments following these activities, in particular in relation to complex procurements such as the ones related to infrastructures or buildings. For this reason, further dialogue and sharing of information in each partner institution is needed. On behalf of these findings, the main support for beneficiaries has been concentrated on two levels:

- 1) Ensure a high level of energy knowledge in specific and planned procurements of goods and services.
- 2) Support coordination between technical, planning and procurement departments, to guarantee that environmental criteria and energy saving targets are integrated into the procurement process.

To reach the above aim, the TF has organised meetings with all municipalities in the Region of Zealand addressing organisational issues and planning of relevant interventions with energy saving potentials.

The TF has received and analysed the procurement lists from Region Zealand, the Municipalities of Holbæk Odsherred, Lejre and Solrød. Most procurements do not have energy relevance and for those including energy issues (like IT) requirements are already standardized through existing procurement schemes (e.g. SKI). Therefore, the main task of the TF has been to support those interventions with the perspective of achieving more improvement in existing procurement practice. The general barrier is on two levels:

- 1) The most interesting procurements with potential for energy savings are placed in different departments and are hard to influence. Most municipalities have already picked the low-hanging fruits with short payback periods, which means that it requires more efforts to find interventions with energy saving potentials that municipalities find interesting.
- 2) Planned procurements that have energy saving potentials are mainly evaluated on their potential for economical savings.

On this basis, the TF decided to link GPP to the municipal SEAP and try to internalize GPP methods and guidelines both in procurement departments and, where possible, at a higher political and organisational level.

So far, **7 interventions have been finalized, 10 are delivered and 8 are ongoing.** The interventions fall within the following categories:



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- In the Municipality of Roskilde a green public tender for procurement of LED street lighting has been implemented by taking a holistic approach. The main focus has been to relate street light to a broader city planning perspective and thus coordinate strategies across sectors in a single tender. The finalized tender involved a total investment volume of 2.670.000€, energy saving of 56,6 toe/year and a reduction of 260tCO₂/year. The municipality of Slagelse is also investigating in a street lighting refurbishment project, supported by the TF with contacts to market-players, suppliers and demonstration projects within the first phase of the project. In general, refurbishment of street lighting and conversion to LED lighting is of high priority in many municipalities in Zealand and the rest of Denmark. This is due to both the municipal ownership and direct responsibility of street lighting, a great number of professional market-players as well as intense research and demonstration (e.g. Doll lighting lab).
- Several TF interventions have concerned energy efficiency and RES in public buildings, such as in the municipalities of Holbaek, Stevns, Ringsted, Odsherred and Lejre; in some cases the prefeasibility studies have been conducted for building retrofit and in these cases the interventions could generate an overall investment volume of 6.367.000€, RES production of 457,8 toe/year, and energy savings of 176,5 toe/year and a reduction of 1816 tCO₂/year. The refurbishment of Brorfelde has been conducted and the refurbishment of Isefjord is expected to be conducted within 2016.
- With reference to green transport, Holbæk Municipality, Ringsted Municipality and Region Zealand are all investigating their potential for replacing some of their conventional cars with electrical cars and have signed up for the Capital Regions tender cooperation of EV's. Holbæk Municipality has announced a tender of leasing cars, where lowest cost and best energy efficiency in a TCO perspective is prioritized. Køge has developed a central fleet strategy which, due to organisational changes in the Municipality, was never implemented. One department has, however, received TF support for the tender of a number of new cars. Odsherred, Sorø, Vordingborg and Stevns Municipalities have signed up for the national Partnership for EV's. The TF has supported all the mentioned municipalities by developing notes for politicians and setting up meetings with other actors, e.g. the Municipality of Copenhagen and Copenhagen Electric. This intervention could generate an overall investment volume of 800.000€, energy savings of 29,5 toe/year, and a reduction of 79 tCO₂/year. There are, however, quite many barriers for implementing EVs in the Municipalities of Zealand, primarily due to geographical challenges, no state support, little knowledge on EV's as well as difficulties in comparing conventional cars and EV's.
- The TF has supported the Municipality of Holbaek in the preparation of a tender for white goods, e.g. washing machines, tumble dryers. Part of this is to update technical criteria so they correspond to the newest energy labels. This tender has become a FUS tender and thus a joint procurement planned to be announced during fall 2016. Roskilde Municipality has also received support in relation to a white goods tender. Primes provided support in relation to environmental criteria and TCO calculations and helped establish templates for Roskilde Municipality to use for the tender on white goods. Primes followed up through e-mails and phone conversations and gave feedback on the municipal tender.
- PRIMES Task Force provided support to Koege Municipality in relation to laundry service. PRIMES TF has helped support the development of energy criteria, evaluation of tenders, outline what part of the procurement, which is related to energy, and help search the market for new resource

efficient products. Further, PRIMES TF helped raise awareness on how to evaluate energy requirements and link procurement with SEAP ambitions as well as CO2 obligations. However, an overall barrier is related to the financial evaluation of a tender. The success rate of a tender is primarily evaluated in terms of economic savings. Therefore, energy criteria is only partially taken into consideration.

- Other fields in which Region of Zealand is exploring possible way of GPP is through the hospital laundries tender for detergents and a possible tender for machines. Previous the Region also has looked into the Heath Care Electrical and Electronic Equipment and Cleaning stuff.

Liguria (Italy)

21 municipalities committed – Target 20 – ACHIEVED

11 TF intervention achieved + 11 delivered - Target 20 – ACHIEVED

5 trainings organized

2 arrangement with suppliers organized

Project beneficiaries in the Region of Liguria are small and medium sized municipalities that have joined the Covenant of Mayors. Most of them have submitted their SEAP or are finalizing their action plan anyway, at general level, the phase of implementation of the measures aimed to energy efficiency and energy saving is challenging several difficulties, both at technical, administrative and economical level; though Primes the TF has offered to the Municipalities the occasion to foster their actions towards 2020 through the implementation of green procurement. To this aim, the TF focused its work to provide to the beneficiaries technical support, so to promote GPP as an effective tool to implement energy efficiency: this is also a positive strategy for promotion of GPP among all the municipalities committed to the CoM which, in Liguria, are over 100. Green procurement is a topic promoted by the Region of Liguria since some years and, at general level, Municipalities are informed about the benefits of GPP but so far they purchase green products not specifically related to the energy sector which, therefore, is a new deal: here it is a widespread lack of competences due, first of all, to the complexity to plan the interventions and, then, to manage with technical /environmental specifications.

The TF has made an assessment of the SEAPs of all the beneficiaries involved in the project (21 Municipalities) in order to identify the potential and implement the intervention in each local administration. The main categories identified for potential interventions were: building maintenance and retrofitting, also for heating plants, procurement of green electricity, installation of RES and public lighting.

In the meantime five Primes regional workshops have been organized (opened to Primes beneficiaries and to the Municipalities of the CoM), in order to spread knowledge and training on: GPP, interventions for energy efficiency, energy savings, solutions for financing and to collect data, needs and feedbacks from the involved Municipalities.

At the same time, through direct contacts/joint meetings, the TF continued to assess possibilities to overcome the barriers affecting the implementation of the interventions: at general level, challenges for the implementation of GPP are due to the complex legal framework ruling public procurement and, most of all, to the lack of funds (caused by the financial crisis affecting public administrations, by the spending limits foreseen by the national Stability Pact and by unforeseen events which affected several Municipalities of Liguria e.g. the flooding in Autumn 2014), situations which prevented or delayed municipalities to implement green procurements and interventions. The TF has tried to help municipalities to deal with the current situation, for example through informing and supporting them in the research of funding or alternative solutions (like ESCOs) to finance their interventions. To this aim, also joint procurement represented a strategy, therefore the TF worked with the Consortium Energia Liguria (CEN) managed by IRE spa, whose aim is to promote energy efficiency and optimisation of energy consumptions in the public sector. Through the consortium, working as joint purchasing authority, beneficiaries can procure green electricity with certificates of renewable origin according to national/RECS standard.

On this basis in Liguria Region 23 Task Force interventions have been achieved or delivered.

- Energy efficiency and building refurbishment: 7 TF interventions have been finalized in the Municipalities of Albenga, Plodio, Calizzano, Varese Ligure, Santo Stefano al Mare, Urbe and Quiliano providing technical support for the preparation of the tenders related to the energy retrofitting respectively in buildings owned by the Municipalities. In some cases the interventions were related to plants and buildings envelope, in other cases the interventions included the replacement of doors and windows. The general estimation of energy saving in this sector is about 102 toe/year with a CO₂ emission reduction of 250t
- RES: 1 TF intervention has been finalized in the Municipality of Mendatica providing technical support for the heating system renovation with biomass in the municipal building generating an investment volume of 60.000€, an energy saving of 2,1 toe/year and a reduction of 8 tCO₂/year.. The Municipality of Celle installed solar panels on the roof of a building owned by the Municipality. This PV plant is able to cover all the energy demand of the building and, as the production is higher than the consumption, the exceeded energy can be used by other municipal buildings.
- Green electricity: TF is promoted the GPP of green electricity to all the members of CEN. The Municipality of Arcola has joined the procurement with the Consortium for an electricity supply of 370 MWh/year equal to an investment of about 8.000€ with an extra price of 0,70 € per MWh to purchase 100% renewable electricity. The related CO₂ reduction is estimated equal to 177,6 t/year.
- Street lighting: since the public lighting renovation has been recognized as one of the most interesting themes for Local Authorities, the TF has identified six municipalities to concretely support in the preparation of a tender for the green procurement of Public Lighting. These municipalities are Taggia, Dolceacqua, Seborga, Mendatica, Moconesi and Rocchetta Vara. A technical analysis of their PL grids has been developed (the whole process is quite hard because the actual status of PL in the involved municipalities is very bad) and a tender for the renovation has been realized. This intervention could be potentially replicated to all the other regional municipalities interested in the PL renovation. Some Municipalities has already asked us to enter in the contract.

Other interventions on public lighting have been developed in the Municipality of Tovo San Giacomo, Varese Ligure, Seborga and Castelnuovo Magro. The total energy saving supposed for this sector is 111toe/year for a reduction of CO₂ emissions of 622t/year

Latvia

8 municipalities committed – Target 6 - ACHIEVED

14 TF intervention finalized +4 ongoing- + 4 delivered- Target 20

7 trainings organized

4 individual arrangements with suppliers and 8 arrangements

GPP in Latvia is a quite new approach: since the beginning of the project government employees involved in the activities admitted not to have general understanding about GPP and explained the need to start with basics. General experience in municipalities is that GPP always pushes up prices, because of non-existing competition. Therefore, the main need for the Municipalities is to have experts and technical professionals to support them in the development of specific criteria to put GPP in practice but, first of all, there is a need to rise awareness among politicians and to organize training sessions to provide the municipal staff with knowledge and instruments.

LEIF has organized dedicated meetings in all the 5 beneficiary municipalities, which in the meanwhile have been asked to collect information on energy consumptions to evaluate the potential for interventions, and five joint sessions dedicated to understand the needs of municipalities, explain the benefits of GPP and set up a joint action plan: on these basis LEIF is hiring professional experts to implement the training to the beneficiaries and to provide technical support to realize the interventions; moreover, LEIF is collaborating with the Procurements Monitoring Bureau (PMB) and participated in 5 work group meetings, established by the Ministry of Environmental Protection and Regional Development, to help and give input for the national GPP implementation plan, which is now is approved by the cabinet of Ministers, but Public procurement law is now open and is under revision. In Public Procurement Law has been inserted the delegation for green public procurement, but it still isn't clear defined for which product groups. Clear regulation regarding GPP is still under revision and the first draft version will be available soon.

All the beneficiaries involved in Primes were willing to learn and know more about GPP and committed to cooperate with LEIF and we were able to involve even more municipalities as set in Annex I.

18 Task Force interventions have been announced or finalized by LEIF, 5 are ongoing (result are not announced yet) and 2 are delivered detailed below.

- A green public tender for the street light refurbishment has been implemented in the Municipality of Preili; this tender was actually ready in the first months of the project but, because of a lack of finance, it has been realised, with a strong support from the municipality's mayor, only in the middle of last year, involving a total investment volume of 168.000€, an energy saving of 4,17toe/year and a reduction of 21tCO₂/year.
- The TF participated in some meetings with the Municipality of Carnikava to present GPP and possible green criteria; GPP school refurbishment procurement has been finalized in the Municipality of Carnikava. The tender was announced, but then stopped by the municipality, because of too expensive offer and only 1 bidder submitted the proposal. It was stopped and revised by the TF team and other involved experts and will be announced again after round table discussion with suppliers in Carnikava municipality. This is very complex and huge procurement, because it includes low energy house standards, integration of RES in the existing heating system, energy efficiency measures, attention to indoor and outdoor lighting. The goal of the municipality for this specific procurement was to integrate all the newest and most innovative equipment, to

make it as much energy efficient as it could be. They (the municipality) included all developed criteria which TF team suggested to put in. Municipality is waiting for loan from State treasury and have announced the procurement for the third time.

- In Liepaja municipality TF developed very similar GPP as in Carnikava, but for municipal building renovation works. We implemented 3 building renovation procurements in this municipality during 2015/2016. 1 energy efficient lighting procurement and 1 transport GPP. In total 5 GPP in Liepaja municipality.
- In the municipalities of Tukums 2 GPPs were implemented. 1 in white goods for municipal building and 2nd Sustainable biomass procurement according to GPP standards.
- In Valka municipality 2 GPP were implemented very similar to Tukums municipality – 1st in white goods for municipal building and 2nd Sustainable biomass procurement according to GPP standards. In Valkas case biomass procurements from point of GPP prospective is evaluated as better, because they used the most economically advantageous approach. And 1 is delivered - green electricity GPP tender is developed, but not announced yet.
- In the municipality of Lielvarde the TF supported the preparation of 2 green tenders, one for Computer equipment and the other for biomass procurement. First procurement for IT finished with no results, but biomass GPP was implemented successfully.
- Municipality of Daugavpils already few years are planning procuring low floor trams to replace existing, which are in use for more than 30 years and does not fulfil many of requirements and regulations related to public transport. This was one of the most challenging procurement, because of lack of guidelines and other country experience. Procurement is developed and published, but the winner is not announced yet.
- Grobiņa municipality implemented 2 building renovation procurements developed with help of TF experts. One is school building and other municipal building, where technical design project is developed according to GPP criteria and guidelines.
- State Regional Development agency, as described before in WP5 report, is responsible about electronical catalogues, which are recommended to use by municipalities. 2 catalogues were updated integrating green criteria for product groups – IT and Office equipment. These 2 procurements are published as central/joint procurements and will gather at least 10 beneficiaries. Tenders will close in beginning of November.
- JSC Latvenargo together with PRIMES TF team developed and announced IT procurement, process is still ongoing because winner is not announced yet.

Rhone Alpes (France)

19 municipalities committed – Target 14 – ACHIEVED

14 TF intervention finalized +5 ongoing- Target 14 ACHIEVED

30 trainings organized

2 arrangements with suppliers finalized

At the beginning of PRIMES the TF has firstly focused its interventions on public schools, which are managed by the Regional Council of Rhone Alpes. In the meanwhile, in order to meet the needs of the regional territory, the French TF also enlarged the range of project beneficiaries to Municipalities and several public entities (associations of Municipalities, regional and county Councils, public institutions) which have been involved in training and implementation activities.

The main tasks of the TF have been to provide to all these purchasing authorities skills and tools to implement GPP (advices and elements for writing their tenders, like technical specifications or selection criteria), to collaborate with regional suppliers and clusters in order to increase the offer of green products and services in the local market (so that they can understand GPP criteria and be able to answer to the tenders) and to promote the implementation of innovative interventions, despite the possible barriers at political, administrative and technical level.

So far, **14 Task Force interventions have been finalized and 5 are ongoing**, as detailed below.

- Green Public Procurement of energy: in order to meet the opportunities offered by the liberalization of the energy market in France (gas in 2014 and electricity in 2015) the TF has worked to support the municipalities to face their obligation to open their energy procurements to competition and, in the meanwhile, to implement innovative GPP through the procurement of green gas. A first pilot intervention has been finalized with the Municipality of La Motte Servolex, with a tender whose main goal was to purchase a part of renewable gas (10%) but also to buy it through a joint procurement, in order to obtain a lower price, and to include additional environmental criteria. This intervention involved an investment volume of 165.000€, an energy saving of 142 toe/year and a reduction of 345 tCO₂/year. In the meantime the TF organized several technical meetings and training sessions about gas procurement, presenting also the pilot tender of La Motte Sevrolex, for over 50 municipalities that have joined a Regional Network for the procurement of green gas. Among these, the TF successfully convinced the Bourg and Bresse agglomeration to include green gas purchase as a pre-requisite to their tender that was published involving an investment volume of 700.000€, an energy saving of 32 toe/year and a reduction of 345 tCO₂/year. Moreover, the TF is supporting the Regional Network for green gas procurement providing them with information about technical environmental specifications for tenders. This intervention, involving more than 50 public bodies, could generate an investment volume of 500.000€, an energy saving of 180 toe/year and a reduction of 491 tCO₂/year.

About the green electricity a TF intervention has been finalized with SINGERLY (an energy union of 56 municipalities) defining a joint procurement of 100% green electricity (equal to 13 GWh/year) that generated an energy saving of 1100 toe/year and a reduction of 1000 tCO₂/year. A similar TF intervention is ongoing with the municipality of Lyon in order to include technical specifications in a green electricity procurement.

- Transports and vehicles: in the municipality of Bourg en Bresse a TF intervention has been finalized for duty vehicles generating an investment volume of 32.000€, an energy saving of 0,1 toe/year and a

reduction of 0,3 tCO₂/year. The TF supported the Roannais agglomeration (about 40 municipalities) in the GPP of 10 new vehicles for a total investment volume of 135.000€, an energy saving of 1,4 toe/year and a reduction of 3,5 tCO₂/year. Moreover, a TF intervention has been finalized with the Société Dauphinoise pour l'Habitat (SDH), a public social housing company operating in more than 130 municipalities, through the GPP of 45 vehicles for a total investment volume of 803.000€, an energy saving of 0,6 toe/year and a reduction of 14 tCO₂/year.

- Wood Chips procurement: in the Municipality of Aix le Bains a TF intervention has been finalized in the purchase of sustainable criteria wood chips for a boiler, generating an investment volume of 160.000€, an energy saving of 77-112toe/year and a reduction of 190-270 tCO₂/year.
- Energy efficiency and building refurbishment: in the Municipality of Bourg en Bresse two TF intervention have been finalized including environmental and energy sustainable specifications in the tenders for the windows replacement in a social house and the insulation of a school, for an overall investment volume of 354.000 €, an energy saving of 0,5 toe/year and a reduction of 0,1 tCO₂/year. The TF has also supported the Department of Rhône and the Department of Isère to include GPP criteria in the refurbishment respectively of a secondary school and of their Department office (windows replacement and insulation in both cases). Also the Rhône Alpes Regional Council is being supported in a similar way for the refurbishment of an high school concerning (windows replacement and lighting) and of the Regional Council building (windows, doors, wood boiler and lighting).
- The TF activities have focused on the implementation of interventions for the tender lighting renovation in 5 schools. Specific training has been provided to the involved staff and a collaboration with the “Cluster Lumiere” has been set-up in order to promote the effectiveness of the action.

Blekinge and Kronoberg (Sweden)

28 municipalities committed – Target 9 – ACHIEVED

11 TF intervention achieved + 46 delivered - Target 25 ACHIEVED

59 trainings organized

9 arrangements with suppliers finalized

The task force interventions in Sweden aimed to give PP bodies and entities hands-on support for on to how to implement GPP in an organization (political decisions, priorities in the budget, etc.) and how to use GPP in the development and award of specific tenders using GPP methodologies. The purpose of each task force intervention was not only to secure focus on energy efficiency during one specific contract negotiation but also to build a long lasting capacity within each organisation and thereby enable it to continue the development of its GPP strategy and apply this knowledge to other types of contracts. During the projects life time the TF in Sweden realised that in every origination's there are a huge number of people involved in a huge number of procurements every year. Some procurements are initiated and carried out by the Procurement office with support from experts in the organisation. Some procurements are initiated and carried out by different administrations and departments with support from the Procurement office. Some organisations don't have a procurement office. So it was defined that the measures carried out had to reach several key actor and had to be tailored to each role needs.

Many of the involved key actors (both procurers and civil servants responsible for an upcoming procurement) were already quite knowledgeable in PP and sustainable/energy efficient products and at general level, among public procurers of Sweden there is a high level of knowledge about GPP and how to use the criteria library from the National Agency for Public Procurement. The municipalities wanted information about new and upcoming approaches well ahead the next procurement in order to be able to influence decisions makers and other important key actors.

After interviewing and meeting several of the purchasing organisations we found out that it would be difficult to handle all TFI as individual consultations/meeting as we first planned. They didn't feel that they had the time to meet us in face to face meeting/workshops (5x3 for the municipalities and 2x4 for the county councils/region) and they also needed more specific input from experts for each product group/service who required bigger audiences than a single municipality if they were going to attend. There was also a wish to have the TFI together with other purchasing organisations to have a better real time exchange of experience and to listen to someone who have tried e.g. LCC, GPP for different product groups. To meet these requests from the municipalities PRIMES developed a program with TFI that included webinars, web meeting, seminars, workshops, trainings and did this together with other projects and organisations to be able to attract better lecturers/experts and to be able to handle a big group of people. We mainly focused on street light and vehicle since this was the main groups the purchasing organisations wanted more information about and procurements they really wanted to improve. We also carried out TFI by web (lync/skype for business and Adobe connect) this was a successful and appreciated way of communication and carry out meetings. The vehicle web meeting has render in a whole day seminars on how to develop the tender documentation for increasing the possibilities for biogas and biogas vehicles. During this day also suppliers will attend to describe their point of view.

TF efforts have been aimed also to promote dialogue among public procurers and suppliers, provided the strategic role that pre-procurement can have in GPP. During interviews and discussions with the municipalities and the twinning PP bodies and entities one of the main issues was to get help in - how the

environmental department (e.g. energy and climate strategist, sustainable strategist, environmental managers and others who wanted to develop GPP/SPP in the organisations) should work in order to achieve political decisions and other crucial measures so that GPP/SPP could be implemented more often. During the PRIMES project several TFI have been carried out to almost all municipalities in the region. 11 (+2) have resulted in case studies and 46 have resulted in raised awareness about GPP for different products/services and all of them have resulted in organisations that are prepared for and have knowledge about GPP for the next PP that will be carried out. ESS and KRONO have had no possibility to influence which procurements the public bodies shall initiated or when different procurements should be announced/finalized. We only have the possibility to educate, inspire, raise awareness, providing tools, contacts, case studies that the staff have the possibility to carry out GPP for the upcoming procurements. In the “Assessment table” all the Swedish TFI is listed and comment are made to why they didn’t become GPP within the project or during the projects lifetime.

Some of the different measures that has been carried out has been developed together with other actors or other EU or national project. This has been necessary in order to be able to attract the key actors to the events (the same key actors are involved in different GPP measures and can’t spare time to attend to several different meeting that has a similar agenda). And to be able to attract experts and national authorities our event needed to have a significant number of participants and that could only be achieved if we cooperated.

Finalized

ESS-08 Kalmar Streetlight

ESS-13 Oskarshamn light harbour

ESS-14 Oskarshamn streetlight (not yet delivered to PRIMES a case study 2016-10-10)

ESS-15 Borgholm Streetlight

ESS-19 Växjö Procurement of consolidation center and coordinated transportations

ESS-25 Älmhult green electricity

ESS-26 Ljungby green electricity

ESS-27 Kalmar Solar and PV (the case study isn’t finalized since we not allowed to use this GPP for solar PV within PRIMES at first, and now the responsible person at the municipality is no longer in the organisation- we are trying to get a hold on him and develop a case study 2016-10-10)

ESS-34 Region Kronoberg Vehicles

ESS-43 Älmhult Vehicles

ESS-44 Tingsryd vehicles

ESS-56 Mörbylånga Vehicles

ESS-58 Älmhult vehicles (not yet delivered to PRIMES a case study 2016-10-10)

After the task force interventions (46+11 (+2), and some more) the key personnel in the PP bodies and entities have a better understanding of LCC and GPP/SPP. They have the competences required to draw up contract specifications with performance criteria and to develop better award criteria. After the education concerning strategic GPP work able to communicate the benefits of GPP to key decision-makers within their own organisations and other similar organisations. Several of the involved PP bodies and entities have be able to demonstrate how to overcome the barriers to GPP – using their own experience.

Feedbacks so far:

Barriers	Opportunities
<ul style="list-style-type: none"> - Legal and administrative framework - Lack of political commitment and official control - Lack of knowledge on GPP (benefits, procurement procedures, technical specifications) and lack of best practices at regional level to showcase - Unavailability of green products/services on the market or higher prices - difficulty to coordinate several participants / departments, most of all in complex interventions (like buildings renovation) - Lack of funding - Lack of personnel (e.g. inside little sized PO) - Unforeseen priorities due to critical situations - The agreement among PRIMES partners and committed Municipalities is a recommending agreement, it doesn't predict any sanctions if municipalities refuse to make GPP interventions for any reasons. 	<ul style="list-style-type: none"> - Different levels of expertise on GPP among regions involved in Primes - Possibility to train beneficiaries and decision makers about GPP and benefits (energy/ CO₂/money saving) - Local best practices available from first TF interventions - High level of participation among beneficiaries and opportunities for replication of interventions - Synergies with other initiatives (CoM, other EU projects, local initiatives) and cooperation with suppliers - Joint procurement as a tool to lower prices of GPP products/services - Alternative solutions to finance interventions (e.g. EPC contracts)