

## EL-EFF Regions

### WP 3: Regional Action Plan "List of detailed measures" (min. 3)

**Project Partner: ESV**

#### Measure 1

<b>Title: Awareness campaign on stand-by</b>
<b>Aim:</b> Raising awareness on stand-by and thereby reducing stand-by consumption
<b>Target groups:</b> Households
<b>To be implemented by:</b> - to be decided by the regional government - to be implemented by ESV
<b>Description of measure:</b> Awareness raising campaign which informs about stand-by consumption in households and which aims at motivating people to detect their stand-by losses. The campaign comprises a mix of measures and will use different promotion tools to reach people.
<b>Tools:</b> - internet tool: simple calculation tool where people can assess their individual stand-by consumption - media cooperation: articles and ads in newspapers, TV and radio spots - publications: information brochure on stand-by, awareness raising folder, postcard - direct mailing - competition: best ideas and implemented projects on stand-by reduction - events: round-table with stakeholders to get their input in the preparation of the campaign information event for households (perhaps part of an electricity efficiency conference) - energy advice: stand-by issues will be included in the (regular) energy advice sessions of ESV (about 10,000 sessions/a) - other tools: exhibition panel for trade fairs, posters, ppt which can be used by multipliers (e.g. teachers, energy advisers)
<b>Main stakeholder affected</b> - energy supply companies - retailers
<b>Duration: 1 year</b>
<b>Budget (estimation): 200,000 €</b>
<b>Co-operation partner / complementary measures:</b> retailers

**Monitoring:**

- use of online tool
- participation in the competition and attendance of events
- individual monitoring of electricity consumption (annual electricity bill)

**Results (expected):**

- 1 % of the households participate, 200 kWh/a per household saved

## Measure 2

<b>Title: Obligatory electricity efficiency criteria in public procurement</b>
<b>Aim:</b> Public authorities implement energy efficient procurement
<b>Target groups:</b> Public authorities (administration on regional & local levels)
<b>To be implemented by:</b> - Regional government - Local administration
<b>Description of measure:</b> Energy efficiency criteria have to be included in public procurement and only the most electricity efficient appliances and office equipment are allowed to be purchased. This can be done by developing common purchasing guidelines which are used for tenders and also for purchasing without public tenders. In addition, where appropriate, central purchasing of certain appliances (e.g. via e-shop) can be organized including energy efficiency criteria. In a first step, electricity efficiency criteria for the main electric appliances relevant for offices and the "typical" office equipment are developed and implemented.
<b>Tools:</b> - list of electricity efficiency criteria for the main electric appliances relevant for offices and for "typical" office equipment - information folder for public authorities informing about the project - stakeholder meetings to develop the list of criteria - workshops to communicate the project - internet
<b>Main stakeholder affected</b> - retailers - planners - energy supply companies
<b>Duration:</b> 2008 onwards
<b>Budget (estimation):</b> - 50,000 € (for implementing the project, no additional costs later) - max. 2 % higher investment costs for more expensive equipment for public authorities
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> - electricity consumption (comparison before – after)
<b>Results (expected):</b> - 20 % of the electricity consumption of new appliances

### Measure 3

<b>Title: Financial support for low electricity appliances</b>
<b>Aim:</b> Trigger purchase of electricity efficient household appliances
<b>Target groups:</b> Households
<b>To be implemented by:</b> Regional government
<b>Description of measure:</b> People who buy A++, A+ appliances (mainly refrigerators & freezers, washing machines, dish washers) get financial support.
<b>Tools:</b> - financial support - info folders - website / appliance database
<b>Main stakeholder affected</b> - retailers - regional government
<b>Duration:</b> 2008 onwards
<b>Budget (estimation):</b> - 50 € per appliance
<b>Co-operation partner / complementary measures:</b> - retailers
<b>Monitoring:</b> - number of efficient appliances purchased
<b>Results (expected):</b> 20 % of the electricity consumption of new appliances in 30% of the households (~ 50 kWh/a in 163,000 households = 8,150 MWh)

## Project Partner: ARENE

### Measure 1

<b>Title: Best practice for public sector</b>
<b>Aim:</b> Sensitization of the public sector through best practice
<b>Target groups:</b> Municipalities, “departments”, Regional council and other political levels
<b>To be implemented by:</b> ARENE
<b>Description of measure:</b> Increase the awareness of elected people, of administrative employees and of technical employees in the field of electricity efficiency. The aim is to demonstrate the efficiency of best efficient products and of interesting methodologies in order to increase the awareness and to impulse actions in this field.
<b>Tools:</b> organization of site visits inside and outside of the region, elaboration of an electronic newsletter, organization of working breakfasts dealing with the issue
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): general public, technical, financial and administrative managers
<b>Duration:</b> 1 year
<b>Budget</b> (estimation): 30 000
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> Checking of energy invoices, number of articles in municipal brochures
<b>Results</b> (expected): Information campaigns in the municipal communication tools, implementation of efficient measures in the municipal buildings and in public lighting
Decrease of the electricity consumption by 2.5% in the cities

## Measure 2

<b>Title: Raising awareness of households</b>
<b>Aim:</b> to raise the awareness of households in order to change their behaviour
<b>Target groups:</b> Households
<b>To be implemented by:</b> ARENE, SIPPAREC (syndicate of municipalities for the distribution of electricity)
<b>Description of measure:</b> Information campaigns targeted to households through the municipalities : to develop specific tools (articles for municipal newspapers, brochures, LCB promotion), to set up working groups of voluntary cities for the implementation of the action gathering elected people and energy responsible,
<b>Tools:</b> brochures, articles in municipal newspapers, posters for exhibition
<b>Main stakeholder affected</b> elected people and energy managers
<b>Duration:</b> 2 years
<b>Budget (estimation):</b> 40 000
<b>Co-operation partner / complementary measures:</b> local energy agency MVE
<b>Monitoring:</b> checking of energy invoice of 100 households one year later
<b>Results (expected):</b> 3 millions of inhabitants informed and sensitized

### Measure 3

<b>Title: Training in social residences</b>
<b>Aim:</b> to decrease the electricity consumption of lighting, cooking, washing, motors (lifts) in the social residences
<b>Target groups:</b> social residence workers and elderly people
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) ARENE
<b>Description of measure:</b> to organize in close cooperation with the social residences managing owners several sessions of training : 3 sessions per year in order to promote and teach for the electricity efficiency issue to all the workers of the social residences, to create an informal network between them about it
<b>Tools:</b> training material : PPT, LCB, posters
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it):
<b>Duration:</b> 1 year
<b>Budget</b> (estimation): 20 000
<b>Co-operation partner / complementary measures:</b> AREPA
<b>Monitoring:</b> checking of invoices, interviews, measures
<b>Results</b> (expected): decrease of the electricity consumption by 5%

## Project Partner: BAPE

### Measure 1

<b>Title:</b> Promotion of electricity efficiency in households
<b>Aim:</b> Raising awareness for electricity efficiency and introducing benchmarks
<b>Target groups:</b> Households
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) <ul style="list-style-type: none"><li>- to be decided by the housing co-operatives and HAs</li><li>- to be implemented by BAPE in co-operation with the housing co-operatives and HAs</li></ul>
<b>Description of measure:</b> Electricity benchmarks for households are developed and are becoming part of promotional campaign. Other materials like brochure for householders, sticker, tool for evaluation of electricity benchmarking are developed within the frame of the EI-Eff Project, and are now available. This will be implemented at two levels: <ul style="list-style-type: none"><li>- info campaign to broad public by distribution of promoting materials</li><li>- in co-operation with housing co-operatives and HAs on a voluntary basis with householders to introduce saving measures</li></ul>
<b>Tools:</b> <ul style="list-style-type: none"><li>- promoting leaflet, info folder and stickers to housing co-operatives and housing associations, website, tool for electricity benchmarking, articles in press</li></ul>
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): <ul style="list-style-type: none"><li>- planners, architects</li><li>- energy supply companies</li><li>- energy auditors and advisers</li></ul>
<b>Duration:</b> from 2008 onwards
<b>Budget</b> (estimation): limited to EI-Eff budget ca. 1 000 €
<b>Co-operation partner / complementary measures:</b> regional administration
<b>Monitoring:</b> <ul style="list-style-type: none"><li>- questionnaire "before and after"</li><li>- selection of householders based on housing co-operative and HAs selection for metering the electricity consumption</li></ul>
<b>Results</b> (expected): <ul style="list-style-type: none"><li>- raised awareness, 2% reduction of electricity in households per year</li></ul>

## Measure 2

<b>Title:</b> Training/education of facility managers
<b>Aim:</b> Raising awareness for electricity efficiency
<b>Target groups:</b> public sector – maintenance staff, building administrators
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) - to be decided by the regional government and local self-governments - to be implemented by BAPE in co-operation with the regional government and local self-governments
<b>Description of measure:</b> Seminar materials (ppt presentations) on electricity efficiency issues were developed. Other materials like brochure for householders, sticker, tool for evaluation of electricity benchmarking are developed within the frame of the project, and are now available. This will be done as: - seminars for building administration, maintenance staff - press articles
<b>Tools:</b> - seminar materials, stickers, website, National Energy Efficiency Action Plan, building performance certificate (when procedure completed and established in Poland)
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): - regional and self-government administration officers - energy supply companies - energy auditors and advisers
<b>Duration:</b> from 2008 onwards
<b>Budget</b> (estimation): limited to EI-Eff budget ca. 500 €
<b>Co-operation partner / complementary measures:</b> regional administration, local self-governments
<b>Monitoring:</b> - seminar evaluation questionnaire
<b>Results</b> (expected): - raised awareness

### Measure 3

<b>Title:</b> Best practice
<b>Aim:</b> Raising awareness for electricity efficiency
<b>Target groups:</b> public sector – local and regional administration
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) <ul style="list-style-type: none"><li>- to be decided by the regional government and local self-governments</li><li>- to be implemented by BAPE in co-operation with the regional government and local self-governments</li></ul>
<b>Description of measure:</b> Development of a good practice example – eg. the use of low-energy sources of light for street lighting. Presentation of this measure and its results. Dissemination of the example. This will be done as: <ul style="list-style-type: none"><li>- selection of a good practice example and development of a template</li><li>- dissemination of the good practice example through posting it on the project website and mailing it to the local self-governments of Pomeranian Region.</li></ul>
<b>Tools:</b> <ul style="list-style-type: none"><li>- template presenting a good practice example</li></ul>
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): <ul style="list-style-type: none"><li>- regional and self-government administration officers</li><li>- energy supply companies</li><li>- energy auditors and advisers</li></ul>
<b>Duration:</b> from 2008 onwards
<b>Budget</b> (estimation): limited to EI-Eff budget ca. 1 000 € (sponsored articles)
<b>Co-operation partner / complementary measures:</b> regional administration, local self-governments
<b>Monitoring:</b> <ul style="list-style-type: none"><li>- distribution list (via e-mails)</li></ul>
<b>Results</b> (expected): <ul style="list-style-type: none"><li>- raised awareness</li></ul>

## Measure 4

<b>Title:</b> Energy Building Performance Certificate (provided the system is in operation in Poland, as still it is not)
<b>Aim:</b> Raising awareness for electricity efficiency
<b>Target groups:</b> public sector – local and regional administration
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) - to be decided by the regional government and local self-governments - to be implemented by BAPE in co-operation with the regional government and local self-governments
<b>Description of measure:</b> Development of a certificate for a public building which presents the increased efficiency of electricity use of the building (replacement of the lighting and equipment). This will be done as: - selection of a building for developing the certificate - dissemination of the certificate example through posting it on the website and mailing it to the local self-governments of Pomeranian Region.
<b>Tools:</b> - procedure of issuing the certificate for a public building
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): - regional and self-government administration officers - energy supply companies - energy auditors and advisers
<b>Duration:</b> from 2008 onwards
<b>Budget</b> (estimation): limited to EI-Eff budget ca. 500 €
<b>Co-operation partner / complementary measures:</b> regional administration, local self-governments
<b>Monitoring:</b> - distribution list (via e-mails)
<b>Results</b> (expected): - raised awareness, reduction of electricity consumption

## Measure 5

<b>Title:</b> Promotion of electricity efficiency in agriculture
<b>Aim:</b> Raising awareness for electricity efficiency
<b>Target groups:</b> agriculture
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) <ul style="list-style-type: none"><li>- to be decided by Pomeranian Agricultural Advisory Centre</li><li>- to be implemented by BAPE in co-operation with Pomeranian Agricultural Advisory Centre</li></ul>
<b>Description of measure:</b> Electricity benchmarks for households are developed and are becoming part of promotional campaign. Other materials like brochure for agriculture, sticker, tool for evaluation of electricity benchmarking are developed within the frame of the EI-Eff Project, and are now available. This will be done at two levels: <ul style="list-style-type: none"><li>- info campaign in co-operation with Pomeranian Agricultural Advisory Centre by distribution of promoting materials</li><li>- participation in annual agri fairs in Stare Pole and seminars there</li></ul>
<b>Tools:</b> <ul style="list-style-type: none"><li>- promoting leaflet, info folder for agriculture and stickers, ppt presentation, website, tool for electricity benchmarking, articles in press</li></ul>
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): <ul style="list-style-type: none"><li>- staff of ODR</li><li>- energy auditors and advisers</li></ul>
<b>Duration:</b> from 2008 onwards
<b>Budget</b> (estimation): limited to EI-Eff budget ca. 500 €
<b>Co-operation partner / complementary measures:</b> regional and local administration
<b>Monitoring:</b> <ul style="list-style-type: none"><li>- number of seminar participants</li><li>- evaluation questionnaire</li></ul>
<b>Results</b> (expected): <ul style="list-style-type: none"><li>- raised awareness</li></ul>

## Project Partner: Energy Centre Ceske Budejovice

### Measure 1

<b>Title: Electricity efficiency in the public buildings</b>
<b>Aim:</b> Implementation of the Decree n. 148/2007 of the Act n. 458, that defines the evaluation of the electricity consumption – lighting, air-condition etc. in the public buildings
<b>Target groups:</b> public bodies, schools, hospitals, state, regional and town administration
<b>To be implemented by:</b> Regional authority of South Bohemia
<b>Description of measure:</b> Campaign targeting the public buildings with information and recommendations how to implement the Decree
<b>Tools:</b> internet, phone, leaflet, expert consultations
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it):
<b>Duration:</b> 6 month
<b>Budget (estimation):</b> 5000 EUR
<b>Co-operation partner / complementary measures:</b> ECCB, State energy inspection
<b>Monitoring:</b> State energy inspection will monitor the implementation of the Decree in the public buildings
<b>Results (expected):</b> 10% of public building will participate in the campaign and implement the Decree

## Measure 2

<b>Title:</b> Stand-by switched off
<b>Aim:</b> To inform households about the electricity consumption of stand-by and the advantage of its use reduction
<b>Target groups:</b> households
<b>To be implemented by:</b> Energy Centre Ceske Budejovice
<b>Description of measure:</b> Articles in newspapers, webpages, press release, radio interviews and advice about disadvantages of stand-by use
<b>Tools:</b> internet, regional broadcasting, local newspaper
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it):
<b>Duration:</b> 1 year
<b>Budget</b> (estimation): 1500 EUR
<b>Co-operation partner / complementary measures:</b> regional broadcaster
<b>Monitoring:</b> request for feedback in articles and interviews
<b>Results</b> (expected): 10% of households will reduce their use of stand-by

### Measure 3

<b>Title: Heat from cooling systems</b>
<b>Aim:</b> To raise awareness of management of big companies and shopping centres about the possibilities of using heat produced within the cooling process for space heating and water heating
<b>Target groups:</b> Companies, ice stadiums, milk producers, supermarkets etc.
<b>To be implemented by:</b> Energy Centre Ceske Budejovice
<b>Description of measure:</b> Campaign about the possibility of using the heat produced within the cooling process targeting big companies and supermarkets that use the cooling at a large scale
<b>Tools:</b> expert consultations, information letters and leaflets, phone
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it):
<b>Duration:</b> 1 year
<b>Budget</b> (estimation): 5000 EUR
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> request for feedback from companies
<b>Results</b> (expected): 5% of big companies will take steps to use the heat from cooling systems

## Project Partner: Gobierno de Navarra

### Measure 1

<b>Title: PLAN REMOVE of appliances</b>
<b>Aim:</b> Replacement of old appliances by new ones with lower electricity consumption
<b>Target groups:</b> All population
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation)  Department of innovation, enterprise and employment of the Government of Navarra
<b>Description of measure:</b>  The Government of Navarra is granting with 80 € those consumers who replace and old appliance (fridges, freezers, washing machines and dishwashers) by a new one with a lower electricity consumption.
<b>Tools:</b> Media, Press and radio, Presentations
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): Appliances retailers and big supermarkets
<b>Duration:</b> 2007
<b>Budget (estimation):</b> 700.000 €
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> The Government of Navarra is making the follow up of the information provided by the retailers and big supermarkets that are collecting the grant requests and is making the payments.
<b>Results (expected):</b> - Appliances replaced: 11.107 - Primary Energy saving (teps): 708 - CO2 tons not emitted: 1477

## Measure 2

<b>Title: Replacement of the existing outdoor lighting system</b>
<b>Aim:</b> Reduce the energy consumption of the existing outdoor lighting system
<b>Target groups:</b> Municipalities, Public Institutions, Public or private companies, neighborhoods, any entity with responsibilities in the field of outdoor lighting system
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) The region of Navarra will be responsible of the design and the implementation of this program, establishing the legislation and the procedures to request the grants.
<b>Description of measure:</b>  This measure intends to renovate the existing outdoor lighting system applying energy efficiency and saving, putting at the disposal of municipalities and public institutions the economic means necessary that enable the implementation of the proposed actions.
<b>Tools:</b>  Regional calls and economic grants.
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): Municipalities, Public Institutions, Public or private companies, neighborhoods, any entity with responsibilities in the field of outdoor lighting system
<b>Duration:</b> 01/01/2007 a 31/12/2007
<b>Budget</b> Grants up to 29.368 € :
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> The results achieved with this measure will be justified thanks to a list with all projects submitted to these calls, including the main data of the project: brief description of the technical solution, the name of the organization requesting the grant, economic investment , economic support granted and expected energy saving calculated comparing the energy consume of the building/street in the current situation and in the improved one after the rehabilitation.
<b>Results</b> (expected): A new outdoor lighting system is in place with a higher efficiency and less consumption of electricity.

### Measure 3

<b>Title: Preparation of energy balances in Navarra</b>
<b>Aim:</b> Prepare final energy consume balances and electricity generation balances in order to have a clear picture on the current consume situation
<b>Target groups:</b> Energy policy makers, energy companies, energy consulting specialized companies
<b>To be implemented by:</b> (who decides upon the measure, who is involved in the implementation) The Government of Navarra is promoting this campaign that will be implemented by a specialized company.
<b>Description of measure:</b> Preparation of the procedures to carry out this energy balance in Navarra, - Contract a company to develop this energy balance Follow up of the situation in May, present the information in August and submission of the report in September
<b>Tools:</b> The presentation is made in printing and in digital support
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): Electricity generation and distribution companies, consulting companies, Public administrations, hydrocarbons and natural gas companies, Central administration, biomass related companies
<b>Duration:</b> Yearly
<b>Budget</b> (6.500 €):
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> The follow up is made by the Innovation Department in the Government of Navarra
<b>Results</b> (expected): To obtain a clear picture of the situation in order to implement the energy policies and in particular those concerning the electricity saving

## Project Partner: ESCAN

### Measure 1

<b>Title: Training Courses for Energy Certification in Buildings</b>
<b>Aim:</b> Reduce energy consumption by the increase in the education of professionals to provide Energy Certification for Buildings.
<b>Target groups:</b> Professionals working in the Energy sector and in the building sector.
<b>To be implemented by:</b>
<ul style="list-style-type: none"><li>- Regional Government promotes the measure and provides support</li><li>- Energy Agency with cooperation of experts coordinate and execute</li></ul>
<b>Description of measure:</b> <p>The consumption of electricity of the Household and Service Sectors is over 75% of the total in the Region of Madrid. A Great amount of this energy is consumed in the Building area, where the electricity is the main energy consumed in terms of primary energy.</p> <p>The European and National legislations have defined targets on energy efficiency for new or fully refurbished buildings but there are lack of professionals ready to check the fulfillment of the requirements. Those buildings not achieving specific energy targets will not be approved for construction, and also there will be a certification indicating the degree of energy consumption.</p> <p>The measure involves the training of 300 professionals on building energy demand and building energy certification.</p>
<b>Tools:</b>
<ul style="list-style-type: none"><li>- Two already working softwares will be used. One is LIDER (Limit demand of energy) and the second one is CALENER (Buildings Energy Certification). The training will mainly be in class.</li></ul>
<b>Main stakeholder affected</b>
<ul style="list-style-type: none"><li>- planners, architects, engineers</li><li>- Government Employees</li><li>- Installers and other professionals</li></ul>
<b>Duration:</b> from 2008 onwards
<b>Budget (estimation):</b> 300.000 €/year
<b>Co-operation partner / complementary measures:</b>
<ul style="list-style-type: none"><li>- Energy Agency</li></ul>
<b>Monitoring:</b>
<ul style="list-style-type: none"><li>- Number of assistants to the training course/s</li></ul>
<b>Results (expected):</b>
<ul style="list-style-type: none"><li>- 3.000 Buildings Certified per year</li><li>- 1% electricity saving in buildings sector per year</li></ul>

## Measure 2

<b>Title: Public Light improvement</b>
<b>Aim:</b> Reduce the electric consumption by the improvement of the situation of the Public Lights
<b>Target groups:</b> Municipalities and other public and private institutions with responsibilities on Public Lighting.
<b>To be implemented by:</b>
<ul style="list-style-type: none"><li>- Regional Government promotes the measure and provides support</li><li>- Previous Energy Audits would help to detect the opportunities of energy saving</li></ul>
<b>Description of measure:</b> The consumption of electric energy in the Public Sector is high, and Public Lighting is typically 50% of the electricity bill for Municipalities. Other Public Lights in industrial areas and others also increase the total share of the electric consumption. The measure will replace lamps, sensors, regulation, etc. in order to obtain the desired savings.
<b>Tools:</b>
<ul style="list-style-type: none"><li>- Energy audits in Public lighting</li><li>- Subsidies public programme for Public lighting</li></ul>
<b>Main stakeholder affected</b>
<ul style="list-style-type: none"><li>- Municipalities, industrial area managers, and other Public Lighting Management bodies</li><li>- Energy companies</li><li>- Energy Agency, consulting and engineering companies</li></ul>
<b>Duration:</b> 2008-2012
<b>Budget</b> (estimation): 1.000.000 €/year
<b>Co-operation partner / complementary measures:-</b> Energy Agency
<b>Monitoring:</b>
<ul style="list-style-type: none"><li>- Number of energy audits and installed kW affected</li><li>- Yearly energy saving obtained from the measure will be evaluated by counting the specific kwh saved in each measure funded by Regional Government</li></ul>
<b>Results</b> (expected):
<ul style="list-style-type: none"><li>- 25.000 luminaries/lamps improved by an average of 40% electric energy reduction</li><li>- 0.5 % electricity saving in Public Light</li></ul>

### Measure 3

<b>Title: Energy audits in Industry</b>
<b>Aim:</b> Reduce the electric consumption by the detection of measures through energy audits in industries
<b>Target groups:</b> Industries with significant electric consumption
<b>To be implemented by:</b>
<ul style="list-style-type: none"><li>- Regional Government promotes the measure and provides support</li><li>- Energy auditors develop the audits with supervision of Energy Agency</li></ul>
<b>Description of measure:</b> The consumption of electric energy in the Industry sector is almost 19% of the overall. The lack of Energy Managers in industries and low knowledge on energy saving measures by industry owners allows energy audits to propose a set of measures for electric energy consumption reduction. Energy audits directed to industries usually show interesting improvements in several systems and subsystems, and also detects those equipments that could be substituted by others much more efficient, that also could get the benefits from the Government subsidies.
<b>Tools:</b> <ul style="list-style-type: none"><li>- Diagnosis, studies and energy audits in industries</li><li>- Subsidies public programme for industry energy audits</li></ul>
<b>Main stakeholder affected</b> <ul style="list-style-type: none"><li>- Industries</li><li>- Energy companies</li><li>- Energy Agency, consulting and engineering companies</li></ul>
<b>Duration:</b> 2008-2010
<b>Budget (estimation):</b> 250.000 €/year
<b>Co-operation partner / complementary measures:-</b> Energy Agency
<b>Monitoring:</b> <ul style="list-style-type: none"><li>- Number of energy audits developed</li><li>- Yearly energy saving obtained from the measure will be evaluated by counting the specific kWh saved in each measure funded by Regional Government</li></ul>
<b>Results (expected):</b> <ul style="list-style-type: none"><li>- 25 representative industries Audited in the Region. Measures found reduce by at least 20% Electric Consumption in that system/equipment</li><li>- 1% electric consumption reduction in the Industry Sector</li></ul>

## Project Partner: KanEnergi Sweden AB

### Measure 1

<b>Title: Regional campaign for efficient use of electricity</b>
<b>Aim:</b> To increase the awareness of electricity use and to display measures and changes in behavior in relation to energy use in households
<b>Target groups:</b> Households (apartments and houses)
<b>To be implemented by:</b> The regional energy agency (EnergiRåd Väst) in cooperation with the municipal energy advisors and other interested parties.
<b>Description of measure:</b> The regional information campaign should be based on already existing materials, experiences and structures. The main theme is to coordinate all participating actors to initiate and implement information activities in the same period within the same scope. I.e. an platform for information. The campaign should focus on topics like lighting, household appliances, stand-by power, behavior related energy use patterns. The campaign should be implemented during at least one year and be initiated and followed up with monitoring activities to identify the general opinion and knowledge about electricity use.
<b>Tools:</b> The campaign could consists of the following actions/tasks/information vehicles: <ul style="list-style-type: none"><li>- media campaign; press releases and articles, ads etc</li><li>- information materials; brochures, leaflets, stickers etc</li><li>- Website with information, games, tools, guides, examples etc</li><li>- competitions: monthly, different geographic, target groups, approaches etc</li><li>- highlighting "energy efficient" equipment etc</li></ul>
<b>Main stakeholder affected</b> (besides target group and people who decide upon the measure and implement it): <ul style="list-style-type: none"><li>- utilities</li><li>- electricity appliances retailers</li></ul>
<b>Duration:</b> minimum one year
<b>Budget</b> (estimation): 500 000 €
<b>Co-operation partner / complementary measures:</b> retailers, utilities
<b>Monitoring:</b> surveys though phone, internet and no of printing materials, visors on website
<b>Results</b> (expected): increased awareness of electricity use. More educated consumers which have higher requirements on electricity use when purchasing

## Measure 2

<b>Title: Procurement to stimulate technology development</b>
<b>Aim:</b> To stimulate and to support appliances and technologies with higher energy performance than today's standard and even best available technology through technology procurement
<b>Target groups:</b> Municipal and regional administration owned and operated real estate companies/organisations
<b>To be implemented by:</b> VästFastigheter (the regional administrations real estate organization) together with Westma (regional procurement organization) in cooperation with other relevant public and commercial organisations.
<b>Description of measure:</b> By implementing high requirements on electricity performance criteria's on appliances etc when procured energy efficiency is stimulated. This could be done in two different ways (with different objectives) - procurement of BAT (Best Available Technology) on the market today. - technology procurement; by having the strength of a large scale procurement process the buyer than set up requirements that goes beyond today's BAT. However, due to the large quantities' the market actors get strong incentives to develop their existing products on new ones.
<b>Tools:</b> Procurement requirements
<b>Main stakeholder affected</b> - real estate organisations in the region - suppliers of technology/products
<b>Duration:</b> minimum two years
<b>Budget</b> (estimation): 50 000 € (for initiation and coordination)
<b>Co-operation partner / complementary measures:</b> Västfastigheter, Westma, municipal procurement managers, procurement managers in real estate companies and consultants with expertise in technology procurement
<b>Monitoring:</b> Monitoring and evaluation of electricity performance before and after the procurement programmes
<b>Results</b> (expected): more appliances and systems with BAT sold as well as new products with better energy performance on the market.

### Measure 3

<b>Title: Energy checks - Boosting energy efficiency in industry</b>
<b>Aim:</b> To boost the identification and implementation of energy efficiency in industry
<b>Target groups:</b> Industry in Västra Götaland (mainly industrial SME's)
<b>To be implemented by:</b> Consultants in cooperation with trade organisations and local/regional business development agencies or alike
<b>Description of measure:</b> This measures consist of a range of tasks that would support the implementation of energy efficiency measures in industries: <ul style="list-style-type: none"><li>- Introducing so called "consultant checks" for energy mapping and auditing in industries. By supporting part of the costs for the industrial SMEs more audits will be carried out. Consultant checks is an already known tool for stimulation of business and product development in Swedish companies</li><li>- training: training programmes for energy managers in industries</li><li>- establishing local/regional networks for industries for exchange of experiences and good examples etc. Each network should have a network coordinator.</li><li>- highlighting good examples to other industries through the networks and information tools</li><li>- info tools such as newsletter, website, e-mailings, "hotline"</li></ul>
<b>Tools:</b> <ul style="list-style-type: none"><li>- Set aside a dedicated budget for consultant checks for energy audits</li><li>- training programs; documentation, check list, FAQ,</li><li>- network coordinators</li><li>- information tools (website, newsletter, e-mailings, "hotline")</li></ul>
<b>Main stakeholder affected</b> Industrial SMEs Technical consultants
<b>Duration:</b> two years
<b>Budget (estimation):</b> 2000€/energy check (if 100 energy checks per year): 400 000 €
<b>Co-operation partner / complementary measures:</b>
<b>Monitoring:</b> Evaluation of measures identified in the energy checks
<b>Results (expected):</b> Implementation of energy measures in each industry participating

## Project Partner: GERTEC

### Measure 1

<b>Title: Bulb change – grants for energy saving lamps</b>
<b>Aim:</b> Save 2,500 MWh by energy saving lamps
<b>Target groups:</b> Household
<b>To be implemented by:</b> Coordinated by SAENA in Cooperation with manufacturers (Narva), federal administration (Environment) and retailers (Toom)
<b>Description of measure:</b> Development of grant scheme Approach to and agreement with cooperation partners public relation <b>Tools:</b> Events, brochures, posters, media work (radio, newspapers)
<b>Main stakeholder affected</b> Federal government, manufacturer, retailer
<b>Duration:</b> from 2008 onwards
<b>Budget</b> (estimation): 50,000 €
<b>Co-operation partner / complementary measures:</b> Federal government, manufacturer, retail
<b>Monitoring:</b> Energy saving can be calculated by number of supported equipment and average saving calculation
<b>Results</b> (expected): Increased awareness and 2,500 MWh saving, starting point for energy advice

## Measure 2

<b>Title: Branch energy concept - Agriculture</b>
<b>Aim:</b> Prove and realize energy saving potential in agricultural enterprises
<b>Target groups:</b> Agricultural enterprises (SME)
<b>To be implemented by:</b> Coordinated by SAENA in Cooperation with university (HTW Dresden)
<b>Description of measure:</b> Case studies, deduction of specific benchmarks, identification of promising saving potentials, meetings of stakeholders, brochure and flyer, workshop for experts <b>Tools:</b> Meetings, case studies, brochure and flyer
<b>Main stakeholder affected</b> Science, federal government, farmer, representatives of farmers
<b>Duration:</b> from 2009 onwards
<b>Budget</b> (estimation): 40,000 €
<b>Co-operation partner / complementary measures:</b> farmers, university
<b>Monitoring:</b> Energy monitoring on covered farms
<b>Results</b> (expected): Energy saving of 5% within one year in covered farms

### Measure 3

<b>Title: There's a light – Optimization of municipal lighting</b>
<b>Aim:</b> Guidelines for municipal lighting – realization of pilot project
<b>Target groups:</b> Municipalities
<b>To be implemented by:</b> Coordinated by SAENA in cooperation with lighting experts and municipalities
<b>Description of measure:</b> Identification of key technologies, generation of benchmarks, layout of brochure, realization of pilot project (LED street lighting) <b>Tools:</b> Literature survey, guidebook, flyer, workshop
<b>Main stakeholder affected</b> Municipalities, lighting expert, manufacturer, science
<b>Duration:</b> from 2009 - 2010
<b>Budget</b> (estimation): 50,000 €
<b>Co-operation partner / complementary measures:</b> connected to "Energie-Dialog Sachsen"
<b>Monitoring:</b> Result of pilot project, up scaling to federal level
<b>Results</b> (expected): Rising awareness, promotion of saving technologies