

WINNING PROJECTS

★ CLIMATE STAR CATEGORY 4

ANDALUSIA – 500 COMMUNI- TIES ON THE PATH TO CLIMA- TE PROTECTION

Andalusia is the European champion of climate protection – 10,113 climate protection measures have been put in place.

“Climate Unites” is the motto of the 2012 Climate Star. What this means in practice can be seen by looking to Spain. The government of Andalusia is working with eight provinces and more than 500 communities on climate protection. A multi-disciplinary team from all three levels plans and defines the joint procedures. Four-hundred-and-thirty cities and communities have now helped work out a sustainable energy and action plan. The key figures: 10,113 climate protection measures, investments of € 4.8 billion, production of 6.3 million MWh/year in renewable energy and a CO₂ reduction of ten million tons a year. The 500 communities have also signed a mayoral convent. It is a European record as no other region has so many members in the climate protection initiative coordinated by the Europe Climate Alliance. The following foci were also jointly set. In a pilot project in eleven communities the optimization of the street lighting shall be evaluated. € 2.5 million was invested; the goal is to cut energy consumption in half. After the pilot phase has finished, the project shall be implemented in 200 communities with an investment totalling € 130 million. The second strategic area is mobility. In 2008 and 2009 alone almost € 20 million was invested in 150 kilometres of new bicycle paths.



© ANDALUSIA

Andalusia invests 4,8 billion Euros in renewable resources.

ANDALUSIA

(Spain, 500 communities and eight provinces, 8.424.000 inhabitants)
Member of the Climate Alliance since 2011

KONTAKT: www.agenciamedioambienteyagua.es

★ CLIMATE STAR CATEGORY 4

ENERGY RE- GION OSONA

Forty-nine municipalities in Catalonia established an energy agency. They are focusing on energy efficiency and renewables.

The sun often shines in Catalonia, very often even. It thus has ideal conditions for photovoltaic power.

The Comarca Osona region uses the power of the sun. Photovoltaic power plants with total capacity of 8,491 kW have already been installed, a quarter of all the PV plants in Catalonia are thus in this region. Osona on the other hand also has dense forests. And it is using them. From 2008 to 2011, 17 biomass plants with a capacity of 2.9 MW and consumption of four million kWh per year have been installed. A workshop is held each year for biomass installers and another one for geothermal specialists. The pinnacle is the annual biomass fair of Catalonia. An independent energy agency was founded to coordinate the activities. Forty-nine municipalities have already joined, the University of Vic provides scientific input and the Osona chamber of commerce and the NGO Friends of the Earth are partners. The energy agency provides monitoring for all municipal buildings, street lighting and infrastructure. The energy conservation and the increased energy efficiency over the past ten years generated savings of almost € 3.6 million.

OSONA

(Spain, 49 municipalities, 152.400 inhabitants)
Member of the Climate Alliance since 2010

KONTAKT: www.diba.es/web/mediambient/canviclimisos



© OSONA

In Catalonia, 25 % of all PV installations are situated in the Osona region.



★ CLIMATE STAR CATEGORY 4

E-MOBILITY BUCKLIGE WELT

In the very location where bicyclists have it toughest, riding a bike is made easier. The Bucklige Welt region of Lower Austria is betting on e-mobility.

Bucklige Welt, the land of 1000 hills is an ideal land for testing e-mobility thanks to its difficult topography. At the same time the local population



E-mobility eases cycling in the land of 1000 hills.

along with tourists should have easier access to the beautiful landscape at affordable prices. E-bikes have made this possible even for people who are not so athletic. Four communities, Bad Schönau, Kirchschlag, Krumbach and Lichtenegg, started the E-mobility Bucklige Welt program. E-filling stations and bike paths were installed. Forty bicycles are available at 14 locations and are also very popular: 600 hundred rentals were made from May to October 2011, and about 120 Segway rentals. The current focus is on e-mobility for routine mobility, commercial mobility and forming consciousness of e-mobility. Five other communities would like to join the climate and energy model region Bucklige Welt - Wechselland. A core principle of E-mobi-

lity Bucklige Welt is the combination with ecological electricity. All four communities have installed ecological power plants. A photovoltaic power plant supplies the filling station with ecological power in Bad Schönau. A small wind power plant is used in Lichtenegg. Further PV plants are being installed in Lichtenegg, Krumbach and Kirchschlag.

BUCKLIGE WELT REGION


(Austria, 4 municipalities, 13.000 inhabitants)

Member of the Climate Alliance since 1999

KONTAKT: www.buckligewelt.at/e-mobil

★ CLIMATE STAR CATEGORY 4

CLIMATE COMMUNITY ROME

From the province  to the communities to citizens. How the province of Rome is focusing on teamwork.

From the metropolis of Rome to the seaside resort of Ladispoli and Castel Gandolfo, the Pope's summer

residence. The province of Rome has great variety. Ever more communities are working closely on one issue: climate protection. As part of the Covenant of Mayors, 31 communities and the province set the goal of reducing CO₂ emissions by 20% before 2020. Four million tons of CO₂ shall be saved with the implementation of the sustainable energy plan. Local CO₂ balances and action plans were jointly created and compared. In regular central and decentralized meetings they talked of their experiences, presented financing models and discussed implementation plans. An Internet platform was installed for better networking. The province provided four million euros in support for communities and companies and in terms of renewable energy efficiency measures they are exemplary. The higher schools run by the province of Rome are all being equipped bit by bit with PV arrays. When the project is finished 301 school roofs will produce climate-friendly energy. One-hundred-and-ninety-five photovoltaic arrays have already been installed. The total investment equals € 24 million.

PROVINCE OF ROME

(Italy, 121 municipalities,

4.194.000 inhabitants)

Member of the Climate Alliance since 2004

KONTAKT: www.pattodeisindaci.provincia.roma.it



Climate protection is made a matter for the boss – president of the province Rome, Nicola Zingaretti.

WINNING PROJECTS

★ CLIMATE STAR CATEGORY 3

LEIPZIG – WHEN THE LIGHT COMES ON

The city of Leipzig has re-equipped historical lighting on the old town with innovative LED technology.

Lights designed by the legendary German architect Schinkel dominate the historic city centres all over Europe. Leipzig has managed to keep these traditional lampposts and equip them with state-of-the-art technology. In 2010 the largest project of its kind in Germany was started. An insert was developed for use in the historical lampposts. It uses the visual design of the old gas lamp incandescent mantels. The LED diffusers are now located in exactly the same location as the original incandescent mantle for the gas lamps. More than 360 of the Schinkel lampposts were re-equipped as part of the Intelligent City Lighting project. The



The mayor of Leipzig Martin zur Nedden puts a LED-light into operation.

old lighting system in Leipzig used 125,000 kWh for 4,096 hours a year and the energy consumption has now been reduced to a mere 35,000 kWh thanks to the LED technology. Instead of 80 watts or 90 watts for each lighting point every re-equipped LED light now only consumes 24 watts for the overall lighting. The re-equipping has created savings of 75 percent. At the same time light quality has improved. The warm white LEDs with 2,700 Kelvin have a very high light exploitation of 90 lumen / watt. The re-equipping of the Schinkel lampposts fits in seamlessly with the climate protection activities carried out by the city of Leipzig. CO₂ emissions have been more than halved since 1990.

LEIPZIG

(Germany, 522.900 inhabitants)

Member of the Climate Alliance since 1994

KONTAKT: www.leipzig.de

★ CLIMATE STAR CATEGORY 3

ZÜRICH – ENERGY- COACHING

Zurich is using consultation to help with climate protection and is providing energy coaches to private citizens and building experts.

In 2008 more than three quarters of all Zurich residents voted for the 2000 watt society. Reduction of energy consumption by two-thirds, one ton of CO₂ per person at most and the doing away entirely with nuclear energy were the central elements of the path Zurich chose. Zurich is now right in the middle of implementation. The Energy Coaching pilot project is intended to ma-



21 energy coaches consult private builders and planning professionals.

ke an important contribution. Twenty-one coaches are contributing their knowledge about energy efficiency and renewable energy for construction right now and they are showing private builders and those planning to how to implement futuristic, energy solutions. Home owners in the central heating district who are impacted by the closing of natural gas pipelines. They get a free consulting session to help with the switch to a new heating system and neighbourhood solutions are also being coordinated. The project has an excellent cost benefit ratio of approximately 30 francs spent for each ton of CO₂ saved. Fourteen percent of the coaching projects will attain the MINERGIE new construction level in the next five years and this is higher than goal of 10% that had been set. Zurich will provide CHF 2,782,300 (€ 2,305,420) in funding for the project until the end of 2012. Due to the positive results Zurich will use the next few months to decide how to continue offering the coaching program through the Environmental and Health Protection department starting in 2013.

ZÜRICH

(Switzerland 382.900 inhabitants)

Member of the Climate Alliance since 1993

KONTAKT: www.stadt-zuerich.ch/energie-coaching



★ CLIMATE STAR CATEGORY 2

VESZPRÉM – FROM ENERGY TO CLIMATE STRATEGY

One of the oldest cities in Hungary started with an energy check, now it will implement a climate plan.

Saving energy is good for climate protection and your wallet. In barely any other EU state are the ecological and the economic aspects so tightly bound together. The average Hungarian family spends 12% of its income on energy; it is the worst rate for the EU. It is precisely the reason why Veszprém is participating in the INTENSE project. The goal is to take the old EU states' years of experience with energy efficiency and transfer that knowledge to Central and East Europe. The populace voted at the start of the project in 2009. Seventy-seven percent voted for more involvement on the part of the municipal governments in energy efficiency. Over the course of time the energy strategy became an extensive climate strategy. By 2025 CO₂ emissions shall be reduced by 25%, energy consumption lowered by 25% and the share renewable energy increased to 20%. Veszprém has al-

ready focused on renewing of its heating systems and improving insulation. Eight hundred residential units were renovated and CO₂ emissions halved. Over the long term, 70% of the building stock shall have its energy consumption optimized. Investments were also made to improve the pedestrian and bicycle paths as well green space design. Energy consumption was also lowered through the refurbishment of street lighting and the renovation of three historical buildings.

VESZPRÉM

(Hungary, 64.300 inhabitants)

CONTACT: www.veszprem.hu

★ CLIMATE STAR CATEGORY 3

BOZEN – CO₂-NEUTRAL NEIGHBOUR- HOOD

Bozen bets on CO₂-neutrality. Within 20 years CO₂ emissions shall be reduced from ten tons to two tons.

Bozen is blazing a trail for climate protection. The best examples are the ecological neighbourhoods

Casanova/Kaiserau and Drususstraße. Both meet the criteria for the Climate House A label. If they were heated with oil consumption would be a mere three litres a year for each square meter. The Casanova buildings with their 950 residential units were designed so that they shaded one another as little as possible. In addition a railway station is built on the Bozen-Meran rail line. The CO₂-neutral neighbourhood Drususstraße is now in planning. By 2014, 550 new apartments will be built. The new neighbourhood is also well connected to the public transportation network. Car-share spots and the pedestrian and bike paths will be available for individual mobility. Bozen is the 2012 Bicycle City of Italy and has a 71 km network of bike paths. The dual lane bike paths with centre line and two-way traffic have now become a trademark of



The ecological neighbourhood „Casanova” is labeled as „Climate House A”.

the city. The share of bicycle travel has steadily risen to 30 percent. Bozen is also a leader when it comes to energy saving renovations. All of the city-owned building stock has been awarded Climate House Standard B, which means that consumption has been reduced to less than 50 kWh/m² per year. Bozen also has 5,200 m² of solar thermal collectors; the largest area of such collectors in Italy.

BOZEN

(Italy, 104.000 inhabitants)

Member of the Climate Alliance since 1994

CONTACT: www.comune.bolzano.it



New bike lanes for one of the oldest cities in Hungary, Veszprém.

WINNING PROJECTS

★ CLIMATE STAR CATEGORY 2

SANEM – THE FUEL CELL

The operation of the first micro cogeneration plant using fuel cells has yielded surprising results.

The municipality of Sanem in Luxembourg has been highly innovative when it comes to efficient energy usage. Starting September 2011 it was one of the first communities in Europe to test a micro-cogeneration power plant powered by fuel cells. A wooden school is used to demonstrate the interaction between “Buildings + Technology” in a wonderful and futuristic setting. The goal is to



The Micro cogeneration plant using fuel cells.

inform residents about the latest generation of the technology and the consequences for availability, energy efficiency, economic viability, reliability as well as the integration of future communication concepts. The savings potential for primary energy consumption is large compared to the separate generation of electricity and heat. CO₂ emissions could be reduced by 50%. The micro-cogeneration plant powered by fuel cells offers the highest level of efficiency for all comparable devices available on the market. Amazing results have already been produced by the project. In the first four months more than 3,000 kWh of electricity were produced

and the school building was also intelligently heated. The primary energy consumption at the school was reduced by 20% compared to the consumption level for the past few years. The project is also an opportunity for craftsmen, since a completely new profession may result.

SANEM

(Luxembourg, 14.200 inhabitants)

Member of the Climate Alliance since 1998

CONTACT: www.siegelschleimer.lu

www.baxi-innotech.de

★ CLIMATE STAR CATEGORY 2

“SCHWAZ MOBILE”

The public transport ridership numbers doubled, the share of bicycle traffic is rising exponentially. A Tyrolean community shows how to get it done.

Support for public transportation along with better conditions for pedestrians and bicyclists. A lot of communities have set these goals but Schwaz has put them into action. Expand-

ing on the “Cleverly mobile in Schwaz”, a further expansion was put in place in 2007 with the “Schwaz Mobile” mobility package. The heart of the system is the mobility information centre at the town hall. The town introduced a mobility management system by creating official bicycles and opening two electric filling stations. Special attention was given to the interfaces with the Environmental Alliance in the form of high-quality transport stops, modern bike storage facilities, and making the rail station more attractive. In the “Barrier Free Rail Station” mobility projects were combined with cultural and social projects. The project also worked closely with residents. Six-thousand pocket time tables for bus and rail networks were handed out every year; new residents received a mobility information packet. An annual bicycle exchange was established as well as bicycle festivals. The public school had a pedibus (a bus on feet) installed. The town budget sets aside 25,000 euros a year for the improvement of pedestrian and bicycle networks as well as environmental public relations. Public transportation receives 300,000 euros a year. Success can be seen in the figures: in 2001 330,000 people rode the city’s buses every year and now almost 700,000 people ride them.

SCHWAZ

(Austria, 13.000 inhabitants)

Member of the Climate Alliance since 1991

CONTACT: www.schwaz.at/mobil



A nice increase: Schwaz enhances bicycle traffic.



★ CLIMATE STAR CATEGORY 2

LUCERNE GET'S IT DONE

A television cop is used to get people and companies in Switzerland interested in climate protection.

Stefan Gubser has played detective Reto Flückiger in the venerable German Tatort (Crime Scene) television series in numerous cities. He is now working in Lucerne under the slogan, "Wasting energy is a crime!" Gubser is the



TV police inspector Reto Flückiger promotes climate protection in Lucerne.

famous face for the campaign "Better Air and Climate Protection: Lucerne Get's it Done." The campaign was launched in the summer of 2010. Residents and companies in the city were provided with information about climate protection, air quality, solar heating, energy efficiency and wood-firing. The Solar Heating project was followed by "Proper Firing", "Optimizing Energy" in spring 2011 as well as "Better Living" in fall 2011. The partial projects will each run for between three and five years. A budget of CHF 200,000 (€ 165,640) was granted for awareness and information activities. One million CHF (€ 828,200) in subsidies were made

available. The poster campaign with the TV inspector was a complete success and drew attention far beyond the city limits. Lucerne is also using city-owned information channels and classic media like the city magazine and Gazette as well as Web 2.0 media like Facebook and Twitter to get the message out. Thirteen thermal solar plants have been installed, 18 efficient circulation pumps installed and 1,000 furnace modules distributed.

LUCERNE

(Switzerland, 76.100 inhabitants)

Member of the Climate Alliance since 2001

CONTACT: www.luzernpacktsan.stadtluern.ch

★ CLIMATE STAR CATEGORY 2

NEUMARKT – 95% LESS CO₂

"On the path to a climate-neutral city," wants to halve energy consumption in Neumarkt in der Oberpfalz.

Neumarkt is focusing on sustainability and doing it for people of all ages. A childrens' academy has

been set up for the youngest. Students do research with young entrepreneurs into renewables. And everybody is welcome to the sustainability conference that will be held for the fifth time. The Bavarian Ministry of the Environment had good reason to award the city the Sustainable Community seal. The climate protection targets are also sustainable. Energy consumption is to be halved by 2050. Combined with the switch to renewable energy; CO₂ emissions will be reduced by 95 percent. The municipal properties have already switched to ecological electricity, small decentralized block heating plants have been installed and street lighting renovated, the most recent improvements will save 536 tons of CO₂ a year and around € 62,000 in electricity costs. The net-plus-energy administration building for the local public utility provider serves as a model. The city is also providing funding. As part of the Factor 10 support program up to one million euros will be made available for the renovation of private homes. The next ecological project has already been planned. In the north of the city, a new biomass heating plant with 40 gigawatt of capacity is being built. Wind power, waste heat exploitation and a PV plant with a capacity of 1.2 megawatts will follow.

NEUMARKT IN DER OBERPFALZ

(Germany, 40.000 inhabitants)

Member of the Climate Alliance since 2008

CONTACT: www.neumarkt.de



The net-plus-energy administration building of the municipality Neumarkt.

WINNING PROJECTS

★ CLIMATE STAR CATEGORY 1

WIESELBURG – “MY BAG IS NOT PLASTIC”

Wieselburg in Lower Austria wants to be the first plastic-bag-free community in Austria. It has already broken one world record.

Fewer plastic bags – it was an easy goal. A goal that the town council of Wieselburg combined with an attempt to break a world record. The idea came from town councilwoman for the environment Irene Weiß. She used the Ten Years Climate Coalition Community celebration in 2010 to the bag is not plastic



Werner Bote, director of the movie „Plastic Planet“ and municipal councillor of Wieselburg, Irene Weiß.

project. Over 3,650 different cloth bags were needed to break the world record. It was a record they broke with 4,315 bags. Individually designed or signed bags were sent by Federal President Heinz Fischer, talk show host Christ Lohner and cabaret artist Josef Hader. Other actions were involved in the attempt to break the world record. Cloth bags were given to all the households, and handed out at farmers markets; Christmas markets and balls as well as many companies no longer used plastic bags. The municipality supplied 10,000 Wieselburg Bags to the companies for free. Wieselburg thus became the pioneer for all of Austria. The town council

unanimously approved the resolution to make a plastic-bag-free Wieselburg and a similar resolution followed at the state level. The retailer Spar offered alternatives to plastic bags. And even minister for the environment Nike Berlakovich took up the topic. A pilot project was launched with shopping bags made from bio-plastic at the supermarkets in several Austrian states.

WIESELBURG

(Austria, 3.700 inhabitants)

Member of the Climate Alliance since 1999

CONTACT: www.mybagisnotplastic.at

★ CLIMATE STAR CATEGORY 1

ČIERNY BALOG – FROM THE FOREST TRAIN TO BIOMASS

A train through the forest leads to a small community in Slovakia. Recently the train has been departing for renewability.

The Shwarzgrán Railway is one of the most important sights in central Slovakia. The forest railway is 17 km long and travels between Chvatimech and Čierny Balog. Two historical locomotives that were powered with old cooking oil will be powered by the sun in the future. Čierny Balog is becoming more and more the focus due to its involvement in climate protection. It is now one of four communities in Slovakia which have joined the climate alliance. The climate protection measures first focused on renovating heating systems and insulation both in schools and in residences. A wood-chip-fired plant started operations this winter. A biomass plant is being planned and built with seven other communities. It will use 1,050 tons of biomass from the surrounding forest and have a generating capacity of 1.4 MW in five furnaces to generate climate-friendly electricity. It will be used to supply seven public facilities with power such as the town hall, the school and the healthcare centre. The next benchmark is the conversion of street lighting. The power mains for the entire densely built communities shall be renewed. The NGO Vydra is a driving force in climate protection, which is very active in raising awareness.

ČIERNY BALOG

(Slovakia, 5.200 inhabitants)

Member of the Climate Alliance since 2009

CONTACT: www.ciernybalog.sk



First step in Čierny Balog: Thermal insulation.



Renewable energy can be studied and discovered in the first Teaching Garden.

More than 1,700 students have already discovered, researched and admired.

KÖTSCHACH-MAUTHEN

(Austria, 3,600 inhabitants)

Member of the Climate Alliance since 2008

CONTACT: www.energie-autark.at

★ CLIMATE STAR CATEGORY 1

MÓRAHALOM – CASCADES AND BUFFALOES

A small town in southern Hungary implements its climate protection initiative. And is resurrecting old traditions.

Mórahalom is located on the Iron Curtain Trail bike path that stretches over 6,800 kilometres from the Barents Sea to the Black Sea. Mórahalom is also making a name for itself with its climate protection initiative. It includes improving bicycle infrastructure and public transport along with the installation of renewable energy. The town created a geothermal cascade system that simultaneously improves its water quality. Mórahalom was also able to form a broad coalition of local partners that extends from municipal and regional figures to non-profit organizations and associations and public utility companies and the University Szeged. The results are impressive. Thanks to geothermal energy the town saved 1,054 tons of CO₂ and 482,000 m³ of natural gas. It has invested in solar and

thermal heating systems and installed LED street lighting. Eight point five kilometres of new bicycle paths were created and new bus stops and bicycle depots. Mórahalom is now connected to the local lakes and is getting in touch with venerable traditions in local agriculture as buffaloes now graze in local pastures. The Home for Sustainable Development contains a store for regional products and it is run with re-



The municipality of Mórahalom develops a network of bike lanes and organises bicycle camps.

newable energy and aims to bring about the sustainable development to the Homokhát region.

MÓRAHALOM

(Hungary, 6,100 inhabitants)

CONTACT: www.morahalom.hu

★ CLIMATE STAR CATEGORY 1

THE SEEHAM ORGANIC-VILLAGE

Seeham is betting on all things organic both in agriculture and tourism. The municipality in the state of Salzburg wants to become the first Organic Village in Austria.

Over 80% of all agriculture here is organic. The tourism concept focuses on experiencing the great

outdoors and vacationing on organic farms. An organic hotel, an organic bed and breakfasts, eight organic farms, the first Organic Fairtrade store in Austria, an organic flour mill, an organic dairy, a herbal world with organic natural garden, an organic wholesaler and a wine store with organic wines. In addition the Seeham Organic Days holds 35 events a year. And to top everything else the organic hay region of Seeham is part of the largest dairy hay region in Europe. After years of preparation to achieve the environmental and organic focus for the community the most important achievement is now in sight. Seeham wants to be the first Organic Village in Austria. The population along with local businesses and farmers were closely involved in the process. Discussions about the future were held to expose local residents to the subject and integrate their ideas and thoughts. The ideas were summarized in a workshop and presented to community representatives. The community voted unanimously in favour of the Organic Village idea in September 2011. The principles of the new idea were presented at a village festival and sent to all the households in the form of brochures. The certification to become the first Organic Village will start soon.

SEEHAM

(Austria, 1,600 inhabitants)

Member of the Climate Alliance since 2004

CONTACT: www.biowelt.sub.cc



Actress Katerina Jacob (l.) enjoys organic food from Seeham.

WINNING PROJECTS



Recently built, the new centre of excellence for construction and energy in Großschönau.

ros were invested with expertise coming directly from the region. A lot of the planners and craftsmen involved in the planning and building of the passive houses were trained and educated in Großschönau. The modern training rooms are used to train and educate building planners, craftsmen, technicians and municipal politicians. Just in the first three months of 2012, 90 people were trained as passive house craftsmen, planners and energy advisors. In March 2012 Sonnenplatz will be expanded to include Sonnenwelt (Solar World) – an exhibit available throughout the year discussing energy-efficient construction, homes, renovation and living.

GROSSSCHÖNAU

(Austria, 1.200 inhabitants)

Member of the Climate Alliance since 2000

CONTACT: www.sonnenplatz.at

★ CLIMATE STAR CATEGORY 1

HOSTĚTÍN – 100% RENEW- ABLE

A village in the Czech Republic is a role model for climate protection. Even Prince Charles has come to take a look.

A biomass power plant, energy-saving public lighting, passive home construction, solar energy even

plant-based sewage treatment. All of this and more can be found in a small village in the northwest of the White Carpathians in the Czech Republic. Hostětín only has 240 inhabitants. At the same time more than 7,000 guests come to the climate protection projects in the community. One guest was even Prince Charles. At the very beginning was the first constructed wetland in the region. The Sun for the White Carpathians project followed in 1997, with solar panels installed on nine roofs in the community and 40 in the surroundings. Since 2000 almost all of the buildings in Hostětín are fed energy from biomass. The Centre Veronica education centre was the first public passive building in the Czech Republic. The facade has a 22 m² integrated solar array. Another photovoltaic power plant was built in 2010. Solar technology has saved 100 tons of CO₂ in Hostětín. The public lighting system was also the public lighting system, CO₂ emissions were halved. Hostětín also raises regional products and uses traditional farming methods. Three-hundred tons of apples are processed each year with the help of solar energy and waste heat exploitation. The storage hall is insulated with straw and does not need to be cooled or heated.

HOSTĚTÍN

(Czech Republic, 240 inhabitants)

CONTACT: www.bostetin.veronica.cz



Centrum Veronica Hostětín: The first passive house of a municipality in the Czech Republic.

★ CLIMATE STAR CATEGORY 1

KÖTSCHACH- MAUTHEN – ENERGY IN THE TEACHING GARDEN

A community in Carinthia wants to be energy independent and illustrates how to get even its smallest citizens involved.

Kötschach-Mauthen has done a lot for climate protection. Twenty one small hydropower plants, three dammed lakes, two biomass heating plants and two municipally owned heating systems, a biogas plant, Carinthia's only wind turbine as well as the first Internet-controlled bio heating network. And now there is also the "Solar Power Plant Town Hall". The 141m² large, 20 kW photovoltaic power plant was installed using a citizen participation model. Ninety-eight percent of Local government buildings are heated with renewable energy and electrical power is also almost 100% from renewable sources. Kötschach-Mauthen was the first community in Carinthia to receive the fourth of five possible E's awarded as part of the program for energy efficient communities. The Energy Independent Kötschach-Mauthen initiative made all of it possible by bringing together representatives from politics, business, tourism and power production. The community is blazing a new path by involving children. On 300 m² the First Teaching Garden for Renewable Energy was installed in Austria. Small, age-appropriate experiments and large independently produced demonstrations were installed that inspire awe and generate curiosity to teach visitors about hydro, wind and solar power along with biomass and energy conservation.

WINNING PROJECTS



20 CLIMATE STARS IN NINE COUNTRIES

The winning projects are examples to be emulated in demonstrating how climate protection initiatives can be implemented at the grass-roots.

★ CLIMATE STAR CATEGORY 1

GALLNEUKIRCHEN – WORLD ENVIRONMENTAL WEEKS

Making climate protection tangible. And in compact form. One community in Upper Austria has managed to do just that.

Twenty-seven events in 18 days. At the World Environmental Weeks – Enjoying the Climate Week 2011 in Gallneukirchen, Austria the focus was entirely on climate protection. The whole community took part from pre-schools and schools, both parishes, clubs, businesses and restaurants. Citizen involvement models, energy independence, regional planning agreements and water usage in gardens were discussed and information provided. Climate protection through walking could be seen in the musical city walk and the environmental hike. Climate protection to be enjoyed, in the newly opened third-world store on the market square the soil federation gave away plants for free. The



Mayor Gisela Gabauer cycling, and takes the lead by example.

sustained success of the World Environment Weeks can be seen most clearly when it comes to mobility. The community has taken advantage of the Climate Alliances offer of bicycle advising. During the bicycle action week the “RadPoint Galli” (Bike Point Galli) was opened and the “StadtRad Galli” (City Bike Galli) and the “Gemeindedienst Galli fährt Rad” (Town Administration Galli Rides Bicycles) projects were presented. The Gallinger RadFrühling (Gallinger Bicycle Spring) is now taking place and Gallneukirchen wants to become the bicycle capital of the Mühlviertel region. The share of bicycle trips should double to 15% by 2020. The schools set a climate friendly pedestrian school bus in the World Environmental Week. The Gallifüßler are up and moving once again.

GALLNEUKIRCHEN

(Austria, 6.200 inhabitants)

Member of the Climate Alliance since 1998

CONTACT: www.gallneukirchen.at

★ CLIMATE STAR CATEGORY 1

GROSSSCHÖNAU – CON- STRUCTION AND ENERGY AT THE SONNENPLATZ

The research and training centre in Großschönau (Lower Austria) will help with the move to renewable energy.

In the beginning there was the environmental trade fair in Austria; Bio-Energiemesse BIOEM. It has now been held 27 times. Sonnenplatz (sunny place) was inaugurated in 2007 and the first European passive home village opened for test living. The focus is on energy saving construction, renovation and living. Five passive homes in various styles were available for testing and experiencing for all those interested in building and renovating. An educational department was also set up at the same time. The research and training centre for building and energy opened in November 2011. One-point-nine million eu-

COMPETITION

CLIMATE STAR 2012

The Climate Star goes to: Climate Alliance Europe awards prizes to climate protection projects in communities.

BARCELONA already won it. Venice and The Hague as well. In 2009 it went to Vienna and St. Pölten. Not only large cities can win the Climate Star but also the activities of smaller communities and municipal regions have also won the prize. One example is Dorf an der Pram in Austria with only 1,000 inhabitants with its energy building blocks or the

international Alpine Pearl project where 21 Alpine communities in five countries are working towards ecological tourism.

THE JURY. The Climate Alliance Europe will evaluate and select climate protection projects. The jury is made up of the management as well as the national coordinators from six European countries. The

Climate Alliance is the largest municipal climate protection alliance in Europe with over 1600 cities, towns, municipalities and regions in 18 countries. It connects local municipalities with the indigenous peoples of the South American rain forest. The common goal is a global partnership to protect the world's climate.

THE CLIMATE STARS. Up to now 70 Climate Stars were awarded in four ceremonies. In 2012 the Climate Alliance will recognize 20 climate protection projects from 9 countries. The projects range from an organic village to energy independent communities to e-mobility in the land of 1000 hills. The award winners at the celebrations at Hof palace in Lower Austria will include a Czech community for the first time. Hostětín with 210 inhabitants is also the smallest municipality ever to win an award.



Ten years of Climate Star: 90 climate protection projects have been awarded.

CATEGORIES

CATEGORY 1

- up to 10,000 inhabitants

CATEGORY 2

- up to 100,000 inhabitants

CATEGORY 3

- over 100,000 inhabitants

CATEGORY 4

- Associations of local authorities

www.climate-star.org

© HANS CZIBAK

FOREWORD



CLIMATE PROTECTION THAT MOVES

Together, the Climate Alliance Europe and the province of Lower Austria will award Climate Stars to communities throughout Europe, and who would not like to receive the prize? Such awards are an ideal way to bring about changes in habits or to motivate people to stick with it. We desperately need this paradigm shift and we need it in many areas to slow global warming. Greenhouse gas emissions are still moving in the wrong direction.



Prov. Governor
Dr. Erwin Pröll

We really need to start doing something about it especially where we are prepared to make changes in our lifestyles. And we are usually prepared to make such a change where we will find some sort of personal benefit. It can be through creating a feeling of ethical responsibility, better health, varied and friendlier environment, the feeling of independence when it comes to food or energy supply. In any event when it comes to climate protection we

need to question our current lifestyle and to act. Lower Austria, which anchored climate protection in its constitution as early as 2007, has taken the initiative and has set ambitious goals. One hundred percent of electrical power needs are to come from renewable energy by 2015 and 50 percent of overall energy needs by 2020. In addition we



Prov. Env. Council
Stephan Pernkopf

hope to create 20,000 jobs in the energy and environmental sectors. To reach these goals Lower Austria Climate Program was put into existence in 2004, which will enter its third phase with a focus on energy from 2013 to 2020. More than 150 experts from various departments and institutions are working on meeting these targets. We have already met the Kyoto requirements in residential construction. However, we are ready to commit more effort and funding into implementation. The

slogan for this year's Climate Star is "Climate Unites". The numerous issues arising from climate change can only be mastered together and in dialog with each other and it is and should be a pleasure to work on it. We would also like to express our thanks to the communities receiving the award, the climate alliance and our partners in Rio Negro Brazil.

"CLIMATE UNITES"

The restructuring of the power supply and new ideas for sustainable mobility need to be conceived, communicated on location in cities and communities. To be successful, these processes have to include many actors: Young and old, consumers and companies, farmers and wildlife protection, policy makers and administrators, municipalities and regions. The sustainable development in cities or communities begins in the minds of residents and needs to be negotiated and designed anew in accordance with the slogan "Climate Unites".

Future development on the path to 100 percent renewable energy cannot be limited to the collection and compilation of various individual projects and policy approaches. In the end the process is the most important: In addition to an analysis of strengths and weaknesses, it includes an agreement pertaining to strategic objectives and activation and participation of citizen to develop accepted, efficient measures that support one another and contribute to regional improvement.

Transport policy is a particularly interesting subject, as it immediately impacts the perception and lifestyles of numerous individuals. Climate-friendly mobility however is the key to future economic social development.

In 2012 the Climate Alliance will honour cities and communities in Europe for their successful contribution to climate protection with a Climate Star. Both large cities and small communities have provided excellent role models. Overall concepts and many various innovative projects contribute to the reduction of CO₂ emissions, support renewable energies and sponsor sustainable mobility. I hope that many more communities will be motivated to follow in their footsteps. Congratulations to the prize winners!



President of
Climate Alliance
Joachim Lorenz



Managing
Director
Ulrike Janssen

DR. ERWIN PRÖLL,
PROVINCIAL GOVERNOR

DR. STEPHAN PERNKOPF,
PROVINCIAL ENVIRONMENTAL COUNCIL

JOACHIM LORENZ
PRESIDENT OF
CLIMATE ALLIANCE

ULRIKE JANSSEN
MANAGING DIRECTOR
CLIMATE ALLIANCE

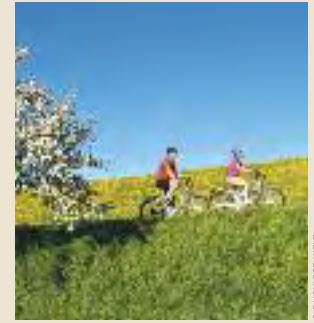
TABLE OF CONTENTS



Outstanding projects initiate the energy transition across the continent.



© KÖTSCHACH-MAUTHEN



© BUCKLIGE WELT



© MÓRAHALOM

© ANDALUSIA

20 Climate Stars in nine countries.

THE COMPETITION

CLIMATE STAR 2012

The short track to climate protection 04

WINNING PROJECTS

★ CAT. 1 – UP TO 10,000 INHABITANTS

GALLNEUKIRCHEN (A)

World Environmental Weeks 05

GROSSSCHÖNAU (A)

Construction and Energy at the Sonnenplatz 05

HOSTĚTÍN (CZ)

Hostětín - 100% Renewable 06

KÖTSCHACH-MAUTHEN (A)

Energy in the Teaching Garden 06

MÓRAHALOM (HU)

Cascades and Buffaloes 07

SEEHAM (A)

The Seeham Organic-Village 07

WIESELBURG (A)

My bag is not plastic! 08

ČIERNY BALOG (SK)

From the Forest Train to Biomass 08

★ CAT. 2 – UP TO 100,000 INHABITANTS

LUCERNE (CH) Lucerne Get's it Done 09

NEUMARKT IN DER OBERPFALZ (D) 95% less CO₂ 09

SANEM (LU) The Fuel Cell 10

SCHWAZ (A) Schwaz Mobile 10

VESZPRÉM (HU) From Energy to Climate Strategy 11

★ CAT. 3 – OVER 100,000 INHABITANTS

BOZEN (I) CO₂-Neutral Neighbourhood 11

LEIPZIG (D) When the Light Comes On 12

ZURICH (CH) Energy-Coaching 12

★ CAT. 1 – ASSOCIATIONS OF LOCAL AUTHORITIES

BUCKLIGE WELT (A) E-Mobility Bucklige Welt 13

PROVINCE OF ROME (I) Climate Community Rome 13

ANDALUSIA (ES)

500 Communities on the Path to Climate Protection 14

OSONA (ES) Energy Region Osona 14



IMPRINT: Special issue, umwelt & energie 1a/2012, Reg.-No.: 02Z032040M. EDITOR, PUBLISHER & MEDIA HOLDER: Land Niederösterreich, Gruppe Raumordnung, Umwelt und Verkehr, Abt. Umweltwirtschaft & Raumordnungsförderung, 3109 St. Pölten, Landhausplatz 1, Tel.: 02742/9005-15273, Fax: DW 14350, e-mail: post.ru3@noel.gv.at. EDITORIAL TEAM: Dr. Angelika Holler, DI Leonore Mader-Hirt. ENGLISH TRANSLATION: NetVenture Europe Co KG. LAYOUT: Peter Fleischhacker. CIRCULATION: 3,000. PRODUCTION: Berger, Horn. PLACE OF PUBLISHING: St. Pölten. www.umweltundenergie.at

AWARD

European Municipalities
Compete for
the Climate



Climate Star 2012

The European Award for Local Climate Protection Initiatives



Climate Alliance