

Annex 4

National Implementation Plan

Build the Future - Roadmap

Austria / Burgenland

1. Introduction

a. Subject of Roll-out plan

The Roll-out-Plan describes the way of conducted measures in the region, to promote a sustainable increase of the demand for the establishment of PEBs. Six Demand Side Instruments were developed and described in former chapters, which are now illustrating the way for the region (steps in a time-matrix) up to the year 2020.

b. Overall Objective of the Roll-out plan

Overall objective is, to accelerate the market development in the field of Plus-Energy-Buildings in the region of Burgenland.

Buildings are responsible for a significant proportion of the total energy use and carbon emissions worldwide, and play an important role in formulating sustainable development strategies. There is a upcoming interest in PEBs (Plus energy buildings) in recent years. Several countries have adopted or considered establishing PEBs as one of their future building energy targets in order to face problems concerning the depletion of energy resources and the deterioration of environment. Broadly speaking, PEBs integrate two design strategies – minimizing the need for energy use in buildings (especially for heating and cooling) through EEMs (energy-efficient measures) and adopting RETs (renewable energy and other technologies) to meet and even overcome the remaining energy needs. EEMs include building envelopes, internal conditions, and building services systems; RETs cover photovoltaic/building-integrated photovoltaic, wind turbines, solar thermal (solar water heaters), heat pumps, and district heating and cooling. Issues concerning sustainable development implications and further research work required are also highlighted. These include life-cycle cost and environmental impacts, climate change and social policy issues.

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2. Demand-Side Target Groups – Occupants, market actor, etc**a. Key target groups**

- Public – Private – residential buildings
Matching key target groups are private homeowners (young families, planning their new domicile or refurbish their existing house), Small and medium companies, working in the field of energy consultancy, construction-physics, plumbers and professionals in renewable energy technology for gaining energy.

3. Challenges, Obstacles, Potentials

The goal of a Plus - energy balance is an ambitious challenge for any building — one that can't be achieved without scrupulous attention to every aspect of a building's design, construction, and operation. Like the related goal of creating a carbon-neutral building, most Plus-Energy-Building (PEB) have first to achieve significant load reductions and system efficiencies, and then meet the remaining loads with onsite energy generation. Currently there have to be faced major challenges occurred due to the economic crisis, were many construction companies are affected (higher technical education-costs for employees working in this fields, price-struggling on the existing market, etc.)

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4. Demand-side policy instruments

a. Demand-side policies already in place in the country FIN/AT/CZ

Country	Region	Area of demand side instrument/policy	Name of instrument	Responsible Organisation	General description
Austria	Vorarlberg	Funding policies	Kommunalgebäudeausweis (KGA) Communal Building Certificate	Umweltverband Vorarlberg	Since 2001 municipalities receive 4% more funding for new constructions or renovations of municipal buildings if they perfectly met energy and ecology criteria.
Austria	Lower Austria	Public procurement PCP/PPI	Information for professionals, investors and building authorities 16 criteria for procurement	Green Building Cluster of Lower Austria	the main important technical requirements f 16 criteria for procurement f 2nd edition of > 30,000 printed brochures Free-of-charge download

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Country	Region	Area of demand side instrument/policy	Name of instrument	Responsible Organisation	General description
Austria	Lower Austria	Test environments / Public labs	Sonnenplatz Großschönau - test before you buy	Großschönau	<p>First Passive House Village allowing customers to test the house of choice by living in it for several days.</p> <p>f Initiative combines technology and tourism promotion in a less developed region Ongoing joint research project of 17 companies to enhance the quality of the indoor environment in residential structures through controlled indoor ventilation:</p> <ul style="list-style-type: none"> - Visitors will keep a log of their perceptions and experiences in regard to living quality - These subjective impressions will be compared with a wide array of measurable technical data - combined data will form a solid fact base which can be used by architects, builders, mechanical engineers and other professionals to design and build user-friendly ventilation systems
Austria	City of Vienna	Public Procurement PCP/PPI	"ÖkoKauf Wien" - Ökologisches Beschaffungsprogramm der Stadt Wien	City of Vienna - Municipal Department 22 - Environmental Protection	<p>Since 1999 the programme provides obligatory green procurement criteria for all municipal departments with regard to more than 20 product groups including construction components, HVCA and construction project management.</p>
Austria	Lower Austria	Funding policies	Residential building sponsorship	Government of Lower Austria	<p>The Province of Lower Austria promotes environmentally friendly and energy-saving construction of new homes. The Province of Lower Austria helps with the home support specifically the promotion of plus energy houses.</p>

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Country	Region	Area of demand side instrument/policy	Name of instrument	Responsible Organisation	General description
Austria	Lower Austria	Awareness raising	Informations and Studies about sustainable constructions	Danube University Krems	Taking responsibility for the built environment, designing it as a contribution to a solid and promising society development in environmental, economic and cultural terms is job content and vision of the Department for Building and Environment.
Austria	Styria	Public Procurement PCP/PPI	Regional development programm	Energy agent Styria	Verantwortlich für: <ul style="list-style-type: none"> • Energiestrategie 2025 • Aktionspläne • Road Map für Erneuerbare Energien • Regionale/Kommunale Energieplanung
Austria	Styria	vouchers / consultancy schemes	Regional development programm	Local energy association	The goal of the National Energy Association Styria is the increased efficiency of energy use and use of renewable, domestic energy sources in the interest of regional development policy, environmental protection and sustainability it.
Austria	Salzburg	Funding policies	Residential building sponsorship	Government of salzburg	Implementation of a comprehensive climate and environmental protection, Economical use of resources, achieve broad participation, cooperation in the implementation
Austria	Tirol	Public Procurement PCP/PPI	Regional development programm	Energy Tirol	ENERGY Tyrol is the counseling of Tyrol to promote environmentally and resource-efficient use of energy.
Austria	Burgenland	Funding policies	Regional development programm	Government of Burgenland	The Government of Burgenland promotes the creation and preservation of housing. The housing subsidy is an important social tool, a key driver of the economy and contribute to an active climate policy.

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Country	Region	Area of demand side instrument/policy	Name of instrument	Responsible Organisation	General description
Austria	Burgenland	Public Procurement PCP/PPI	Regional development programm	Energy Agency Burgenland	The aim of the Burgenland Energy Agency (BEA) is to promote the reasonable and efficient use of energy in the residential, commercial and public sectors, thus contributing to maintaining and improving the quality of life of the population and a healthy development of the habitat is to be achieved.
Austria	Upper Austria	Public Procurement PCP/PPI	Regional development programm	Energy saving Association	services: <ul style="list-style-type: none"> • product-independent and free advice about building, renovation, and residential heating • Information on energy subsidies in Upper Austria • Information relating to building, housing and redevelopment • Everything about the energy performance certificate
Austria	Vorarlberg	Funding policies	Regional development programm	Government of Vorarlberg	The Province of Vorarlberg promotes investment in heat pump heating systems, biomass heating systems, solar panels, photovoltaic systems and biogas plants. In addition, the device provides information about the meaningful use of energy and renewable energy sources.
Austria	Carinthia	Funding policies	Regional development programm	Government of Carinthia	The objectives are the conservation of natural resources, sustainable environmental protection and technical safety of facilities in compliance with the legal framework in the interest of the citizens of our province.

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Country	Region	Area of demand side instrument/policy	Name of instrument	Responsible Organisation	General description
Austria	Carinthia	Public Procurement PCP/PPI	Regional development programm	Energy aware Carinthia	energy: aware Carinthia is an association that was founded by the State of Carinthia. Our goal is sustainable (ongoing) reduction of energy demand in Carinthia and that still required energy as environmentally friendly as possible - is provided - from renewable energy sources.
Austria	Vienna	Public Procurement PCP/PPI	Future House	Federal Ministry for Transport, Innovation and Technology	"House of the Future" is a research and technology program of the Federal Ministry for Transport, Innovation and Technology. Based on the solar low energy buildings and passive house concept and approaches in the use of ecological building materials and renewable resources in building new pioneering concepts were developed and implemented.
Austria	Vienna	Vouchers / Consuktancy schemes	Innovative Building Concepts	Lang Consulting	Lang Consulting provides services in the areas of: research Consulting Networking further education
Austria	Styria	Awareness raising	Magazine Renewable energies (EE)	AEE Work Community RENEWABLE ENERGY	The AEE Work Community RENEWABLE ENERGY was founded in 1988 in Gleisdorf, Austria. The independent, non-profit association committed to the promotion of rational use of renewable energies and the rational, sustainable energy use.
Austria	Upper Austria	Test environments / Public labs	Environmental Economics Energy Concepts	UWEK GmbH	We provide targeted, comprehensive monitoring and optimization of funding a maximum conveyor result for your projects. Our values base lies in solutions that combine environmental and economic profit. Through individual counseling, we support you full of energy, secure investments with sustainable concepts.

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Austria	Vienna	Awareness raising	EURO-SOLAR AUSTRIA INFORMATION OFFICE	Eurosolar Austria	EURO SOLAR AUSTRIA is an association for the solar energy era. It is a nonprofit association founded in 1989. It is independent of political parties, political institutions, corporations and interest groups.
Austria	Vienna	Awareness raising	Network for Information, Quality and Training	Interest group Passivhaus Austria	The platform innovative building© is an independent advocacy for the dissemination of advanced and sustainable building standards in Austria.
Austria	Vorarlberg	Test environments / Public labs	First Plus Energy House in Vorarlberg to mimic	Energieautonomie Vorarlberg	Martin and Daniela Brunn put an extraordinary step toward energy independence. In densely built center of the village Hard is a showpiece for imitators. Martin and Daniela Brunn refer in the course of this year, their private residential building that generates more energy than it consumes. Vorarlberg's first plus-energy house sets new standards.
Austria	Styria	Funding policies	Regional development programm	Office of the Styrian Government	The Province of Styria promotes investment in heat pump heating systems, biomass heating systems, solar panels, photovoltaic systems and biogas plants.
Austria	Vienna	Test environments / Public labs	Plus energy Tower bilding	Bundesimmobiliengesellschaft	This pilot project shows a the renovation of an office tower to a plus energy building
Austria	Vienna	Vouchers / Konsultancy schemes	Klimaschutzpreis (Climate protection award)	Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLFUW)	The Austrian Climate Protection Award is awarded in four categories: Category "farms" Category "Daily Life" Category "Towns & Regions" Category "Agriculture"

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Country	Region	Area of demand side instrument/policy	Name of instrument	Responsible Organisation	General description
Austria	Lower Austria	Public Procurement PCP/PPI	Ecotecture - From Passive House to energy-plus house	ecoplus. Niederösterreichs Wirtschaftsagentur GmbH	Ecoplus advise and support you in business location and expansion, regional promotion and internationalization, inter-company cooperation and intra-industry networks, provide easier access to education, research and development facilities.
Austria	Lower Austria	Awareness raising	Daily news about renewable energy and sustainability	Holler Communications GmbH	OEKONEWS.at is Austria's largest online newspaper in the area of environment and energy. The goal is a current and comprehensive coverage for renewable energy and sustainability.
Austria	Salzburg	Test environments / Public labs	L.I.S.I. (Living Inspired by Sustainable Innovation)	University of Applied Sciences Salzburg / Kuchl	A team of students and lecturers of the University of Applied Sciences Salzburg wins in California the US competition for solar homes, thus making students and teachers of the FH Salzburg to world champions for the Ökohausbau.
Austria	Lower Austria	Awareness raising	Homepage/Blog	Isabella Stranzl	www.biokontakte.com wants provide detailed information on various topics with an overview of the whole organic / eco-movement. They want to bring providers and consumers together to promote the fair, ecological and sustainable market.
Austria	Vienna	Awareness raising	Homepage/Blog	Wohnnet Medien GmbH	The website focuses on current topics regarding construction, renovation and energy saving.
Austria	Vienna	Test environments / Public labs	Building of Tomorrow Plus	Research Promotion Agency (Forschungsförderungs-gesellschaft FFG)	With the research and technology program "Building of Tomorrow Plus", new advanced technologies are developed. The industrial application of innovative technologies to further pursue and visible demonstration or model building settlements are initiated.

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5. Regional Implementation of Roadmap (roll-out plan) Burgenland

Roll-out plan for DEMAND-SIDE INNOVATION POLICIES on PEB in Burgenland						
Implementation of Demand-Side policy Instruments (DSI)	2015	2016	2017	2018	2019	Regional Output by 2020
DSI1 Two-stage Incentive Programme	Funding of low energy building standards already implemented	Funding of low energy building standards already implemented	2.stage- additional bonus for achieving Passive-House Standard	2.stage- additional bonus for achieving Passive-House Standard	Passive-House bonus established in regional government funding schemes	PEB – funding schemes with regional strategies are developed in the region.
DSI2 Multistage Voucher Scheme	Strategically planning of potential PEB-Voucher partners, start networking	Bonus for energy-consultancy (fields of increasing energy efficiency)	Bonus for energy-consultancy (fields of increasing energy efficiency) - extension: fields of gaining passive and active energy	Bonus for energy-consultancy (fields of increasing energy efficiency) - extension: fields of gaining passive and active energy	Funding measures for energy consultancy ready established in governmental programmes	50 PEB related vouchers funded in Burgenland; 15 PEB projects realised in Burgenland
DSI3 Local PEB model houses	Strategically planning, networking	Active acquisition policy to fix potential network-partners	Active acquisition policy to fix potential network-partners; preparation works to find support (funding) for new projects as well as long-time measurement of “absolute autarky houses”	Active acquisition policy to fix potential network-partners; preparation works to find support (funding) for new projects as well as long-time measurement of “absolute autarky houses”	Active acquisition policy to fix potential network-partners; preparation works to find support (funding) for new projects as well as long-time measurement of “absolute autarky houses”	Local exhibitions of 3 PEB model houses including long-time measurement as awareness raising activity

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DSI4 Online platform "PEB in EU"			Upload showcases and relevant information	Upload showcases and relevant information	Upload showcases and relevant information	10 showcases of PEB objects in the east-region
DSI5 PEB topics in education	Draft education programme	Draft education programme, involving school-inspectors and relevant governmental departments	Start pilots – educational programmes – awareness actions – demonstrate energy recovery by photovoltaic plants etc.	Start pilots – educational programmes – awareness actions – demonstrate energy recovery by photovoltaic plants etc.	Start pilots – educational programmes – awareness actions – demonstrate energy recovery by photovoltaic plants etc.	Education programmes on PEB-related topics in appropriate subjects are in place
DSI6 Financing Tools for PEB projects			create specific financing instruments based at research impacts of earlier DSI's	create specific financing instruments based at research impacts of earlier DSI's	create specific financing instruments based at research impacts of earlier DSI's	Specific financing instruments ready developed and piloted in accordance with upper mentioned governmental funding measures

