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YOUNG GENERATION WILL CHANGE UKRAINE

STUDY TRIP to AUSTRIA
November 29-December 5, 2015

- International organization, which brings together the EU and its neighbors to create an integrated pan-European energy market

Key objective:

- EU internal energy market rules and principles extending to countries in South East Europe, the Black Sea region and beyond on the basis of a legally binding framework

Mission:

- Stable regulatory and market framework
- Integrated energy market
- Security of supply
- Environmental situation through renewable energy and energy efficiency improvement

▶ **Ukraine:**

- ✓ A member of Energy Community since December 2010
- ✓ Ukraine's membership - important and the most challenging element of the organization's development
- lack of significant reforms in the country's energy sector
- ✓ Gas Market Law on October 2015 is adopted

Energy Community Secretariat, #1

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➤ ***“Energy Community Secretariat remains committed in supporting Ukraine in the comprehensive reform of its energy sector”*** (Janez Kopac, Director of the Energy Community Secretariat)

MONDAY, NOVEMBER 30, 2015

- **The objective** of the *Austrian Energy Strategy* - to develop a sustainable energy system & available energy services for private consumption & businesses under EU rules

The Strategy 3 main pillars are the following:

- Energy efficiency
- Renewable energy
- Security of supply

Austria's 2020 Targets:

- 34% share of renewable energy.
- 16% reduction of GHG emissions in non-ETS sectors

Overall, the Energy Strategy Austria:

- ▶ provides a realistic opportunity for reaching energy and emission reduction targets adopted on the EU level
- ▶ provides a strong stimulus for the country's economy
- ▶ secures and creates "green jobs"

**A controlling mechanism will be set up in order to evaluate the effects of implemented measures and adapt them if necessary.*



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MONDAY, NOVEMBER 30, 2015



AUSTRIAN ENERGY AGENCY

Austrian Energy Agency, #3

- National center of excellence for energy. The AEA advise decision-makers in politics, science, and the industry on the basis of mainly scientific work...

AEA provides following services:

- Expertise and strategic consulting
- Preparation of materials as basis for decisions
- Planning and carrying out of national and international projects and studies
- Development of energy and economic models
- Market and potential analyses
- Feasibility studies and evaluations
- Target group-oriented PR activities, information and campaigns
- Planning and carrying out of qualification and further training measures
- Expert publications, conferences and workshops

Some long-running and new highlights include:

- ✓ klima:aktiv
- ✓ Austrian Energy Partnerships
- ✓ Program support for energy-relevant EU programs
- ✓ Concerted Action Renewables
- ✓ Build up Skills Austria

MONDAY, NOVEMBER 30, 2015

Austrian Energy Agency, #3

Beneficial qualities of Austria:

- 47% of Austrian territory is forest land (4 mil. ha);
- Biomass heating plants and networks are subsidized by the government;
- About 76.4 TWh (60%) of RE consumption based on biomass;

- A **public involvement** is a traditional form of administration in Austria which is also creates a certain level of competition. This method of policy making exists thank to the federal state structure
- An extremely important issue is general “environment-friendly” education throughout the country and during decades which formed a **“green” way of thinking** within whole nation
- An **energy awareness** is a pillar for future energy independence



AUSTRIAN ENERGY AGENCY

Austrian Energy Agency, #3

Challenges & Lessons Learned:

- EE in households reduced the heat demand for DH;
- Wood prices are increasing due to global demand for biomass;
- Environmental standards have to be met (dust emissions, NO_x, noise);
- Careful and professional planning is required.

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MONDAY, NOVEMBER 30, 2015

Embassy of Ukraine in Austria, #1

➤ Alexander Scherba, Ambassador of Ukraine in Austria

➤ The diplomatic relations between the two countries were established on January, 24, 1992

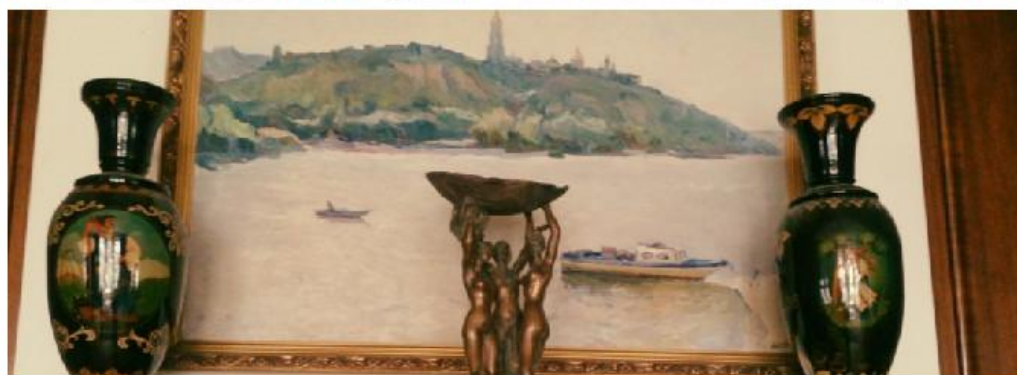
Today the Embassy of Ukraine in Austria consists of 9 departments on general, political, economic, cultural, military and technical issues.

- ▶ In 2014, Austria ranked the 11th place in the volume of bilateral trade in goods and services between Ukraine and the EU, with a share of 3.3% of the total volume.
- ▶ A substantive role in the support of bilateral trading market and renewable energy projects takes Raiffeisen Zentralbank Österreich.

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Embassy of Ukraine in Austria, #1



TUESDAY, DECEMBER 1, 2015



IC consulting & Austrian division CES, #2

- One of the leading consultancy company in Europe in sphere of energy efficiency and renewable energy

➤ The goals of meeting:

- ✓ to establish relationships
- ✓ to know about consultancy work in Austria
- ✓ to learn the best consultancy practices & its implementation in Ukraine
- ✓ to discuss IC's strategy for the nearest future & its track within the energy policy of Austria
- ✓ to hear the examples of successful projects
- ✓ to understand approaches of B2B & B2C communication

- ▶ The general philosophy of the IC may be reflected in the following quotations:

“successful clients → successful projects” and

“we do not need big contracts, we are all human beings and if we want to destroy good project we will do it regardless number of paragraphs in contracts!”

- ▶ So we concluded that the main resources for good consultancy are brain and responsible humans, not money and paper.



IC consulting & Austrian division CES, #2



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TUESDAY, DECEMBER 1, 2015

➤ The EU-27 level working on the edge of the best engineering and energy service practices

➤ **The goals of meeting:**

- ✓ to investigate the consultancy approaches in Austria
- ✓ to understand the heat energy market regulation system in Austria
- ▶ The main issue is that in Austria heat energy sector is fully deregulated and market-based in comparison with Ukraine where we have now monopoly of few producers of heat energy
- ▶ The ability to choose for each client on the principle “find cheaper source ourselves” is the key issue of liberal functioning of heat energy market

- ▶ Through Bioenergy Association of Ukraine 3 representatives of our group – Anna Pastukh, Viacheslav Antonenko and Alex Epik are planning to draft a law and subsequent regulations for reforming of heat energy market based inter alia on Austrian legal framework.
- ▶ The KPC representatives Norbert Peherstorfer and Christian Oberleitner explained in every single detail the organization of heat energy market in Austria

KommunalKredit Public Consulting, #3



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TUESDAY, DECEMBER 1, 2015

Austrian Business Agency, #1

➤ A consulting company *set up by the Republic of Austria*

This agency offers customized information on Austria as a business location:

- sectors
 - technologies and markets
 - political and economic conditions
-
- ▶ ABA-Invest provides support in handling formalities – applying for public funding or operating licenses, in cooperation with the regional investment promotion agencies in the federal provinces.
 - ▶ It provides extensive services to support expansion investments after project completion

- ▶ Professional support often weights much more than empty promises of future benefits
- ▶ In this Austria is a great example for Ukraine on how to form a positive image of a country and attract international investors

Austrian Business Agency, #1

INVEST IN AUSTRIA **ABA**



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Wednesday, December 2, 2015

Austrian Ministry of Environment, #2

➤ *For Austria that is worth living in, with clean air, pure water, diversified nature and safe, high-quality, affordable foodstuffs.*

Key objective:

to maintain and ensure the quality of life for us and our children, what includes agriculture and forestry, nutrition as well as water management and environmental policy.

➤ **Priorities:**

1. Austrian Forest Programme
2. Austria's Agri-environmental Programme
3. Clean bathing lakes – also in the future!
4. Food is precious

- ▶ The implementation of the vision of the Ministry requires openness for the future and appreciation for what has been achieved so far at the same time.
- ▶ It calls for willingness to engage in a dialogue as well as self-assertion. It needs willingness to innovate and at the same time value-awareness.



MINISTERIUM
FÜR EIN
LEBENSWEERTES
ÖSTERREICH

Austrian Ministry of Environment, #2



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Wednesday, December 2, 2015



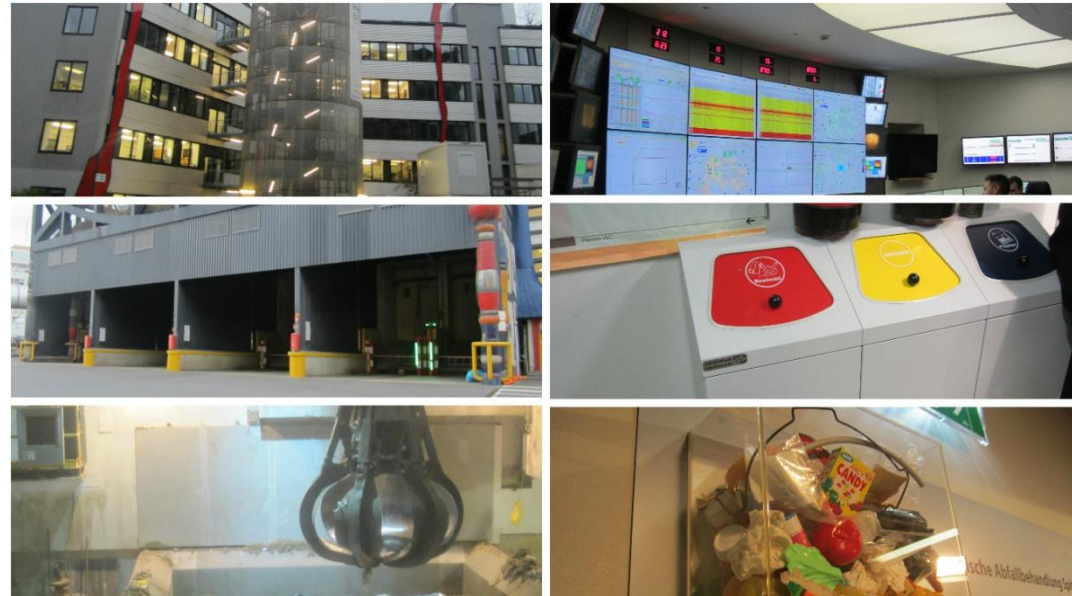
Spittelau District Heating Plant, #3

➤ *Incineration is the most common Waste-to-Energy (WtE) implementation. Spittelau District Heating Plant meets strict emission standards, including those on nitrogen oxides (NOx), sulphur dioxide (SO₂), heavy metals and dioxins.*

- ▶ Vienna has the persistence of its former mayor Helmut Zilk to thank for Hundertwasser having taken on the task of redesigning the exterior of the Spittelau District Heating Plant. Originally, Hundertwasser had opposed the idea upon consulting his friend, environmentalist Bernd Lötsch, as he had fundamental objections to a garbage-incinerating plant as long as all possibilities for avoiding garbage were not exhausted.

➤ Plant is being modernized, reducing delivered wastes volume up to 95-96%, depending upon composition and degree of materials recovery.

➤ approximately 60.000 apartments are heated





WIEN ENERGIE

Spittelau District Heating Plant, #3



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Wednesday, December 2, 2015

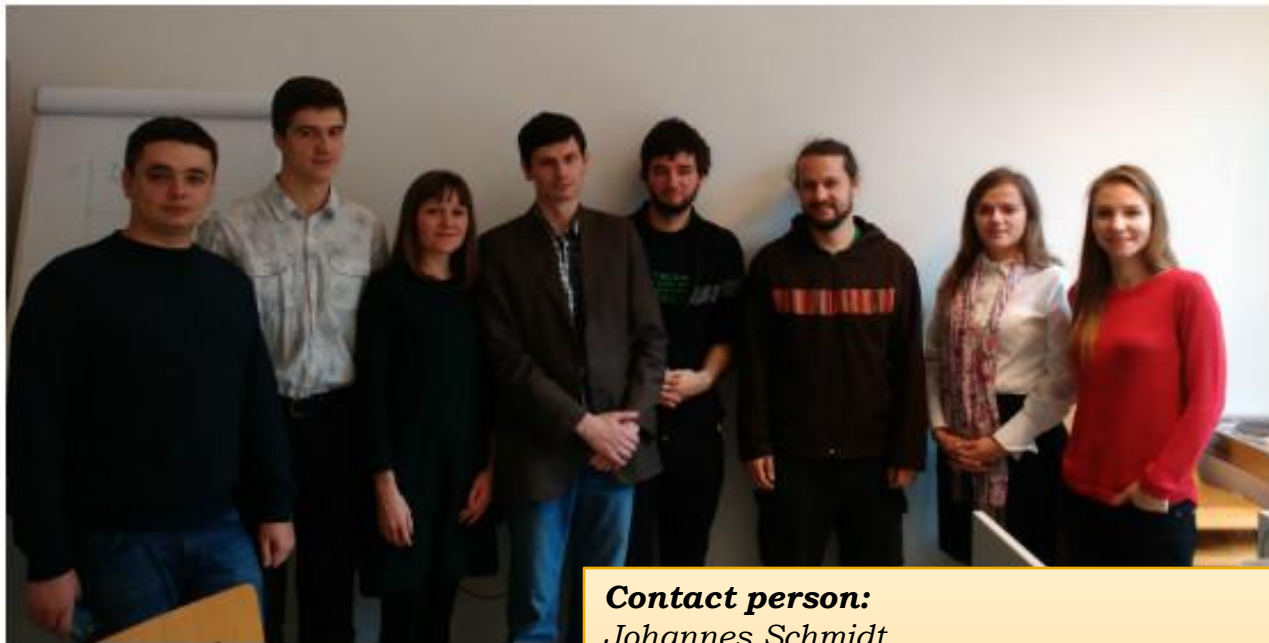


Bioenergy is being examined on regional, national and global levels.

Main issues of interest are:

- Effects of an increase in bioenergy production on Agriculture, Forestry, and the Energy sector
- (indirect) Land-use change effects
- Emission balances
- Costs
- Policies

- ▶ Institute for Sustainable Economic Development is collaborating with International Institute for Applied Systems Analysis (IIASA), known for policy-oriented research into problem of a global nature that are too large or too complex to be solved by a single country or academic discipline.
- ▶ Its researches are independent and completely unconstrained by political or national self-interest.



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Institute for Sustainable Economic Development,

#1

Thursday, December 3, 2015

➤ was launched in June 2010 at the University of Natural Resources and Life Sciences, Vienna (BOKU)

the Centre

✓ takes an active role in the stimulation and coordination of BOKU research (locating relevant calls for proposals, coordinating between BOKU institutes, drafting proposals and taking part in the implementation of projects) and the transfer of knowledge (e.g. organization and management of events; arrangement of fact sheets and position papers).

✓ seeks to increase the visibility of the BOKU

✓ raises awareness of issues of sustainability within and outside of the BOKU

✓ provides valuable information to the public and decision-makers, thus keeping with the university's socio-political responsibilities.

▶ **The main purpose of the Centre is:**

- to foster collaboration and promote research at the BOKU both internally (interdepartmental) and externally (at local, national and international levels) in the fields of global change and sustainability;
- to promote sustainability within the BOKU in academics (teaching and research) as well as daily BOKU operations (operational ecology).



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Center for Global Change and Sustainability, #2

Thursday, December 3, 2015

Main projects:

- ENTRANZE (Policies to enforce the transition to nearly zero energy buildings in the EU-27)
- ZEBRA 2020
- LISI project (Living Inspired by Sustainable Innovation - Solar Decathlon 2013 winner)

- ▶ The core mission of **ENTRANZE** – to assist policy makers in developing integrated, effective and efficient policy packages to achieve a fast and strong penetration of nearly Zero-Energy Buildings (nZEB) and renewable heating and cooling technologies (RES H/C) – with a focus on the refurbishment of existing buildings
- ▶ **ZEBRA2020 Key objectives:**
 - Monitor the nZEB market activities in target countries and across the EU;
 - Provide a user-friendly and easy-to-communicate presentation of the nZEB market, tracking data and indicators;
 - Involve and assist policy-makers to develop an nZEB strategy and recommendations to accelerate the market transition by 2020 and beyond;
 - Prepare the follow up of the nZEB market tracking beyond the project duration;
 - Ensure an effective and comprehensive communication with policy-makers and stakeholders.
- ▶ **LISI (Living Inspired by Sustainable Innovation)** is a vision of simple, smart, and sustainable house. Powered by a rooftop solar photovoltaic system, LISI generates more power than it uses over the course of a year. The house adapts to a range of climate zones and flexes to meet a variety of lifestyles.



TECHNISCHE
UNIVERSITÄT
WIEN

VIENNA
UNIVERSITY OF
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Vienna University of Technology, #3



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Thursday, December 3, 2015

Ecoenergy cluster, OÖ Energiesparverband, #1

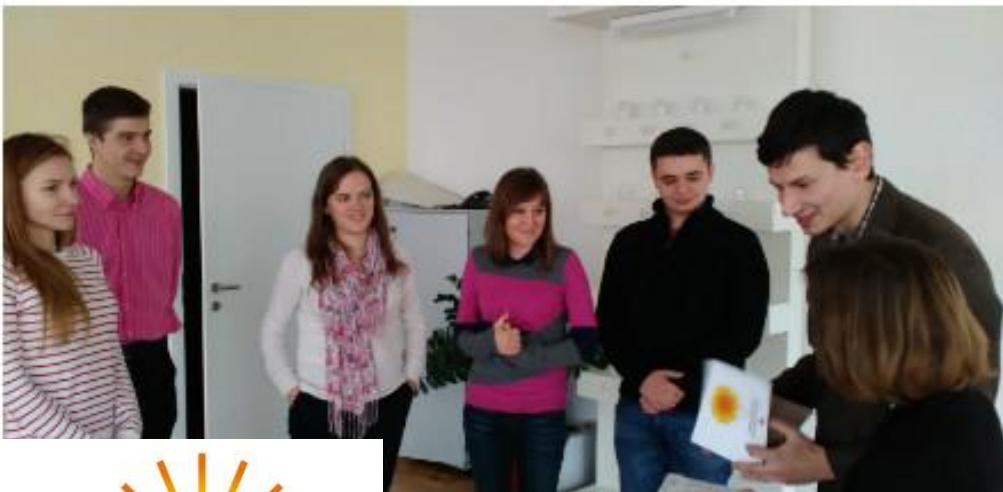
Gross domestic energy consumption in Upper Austria is covered with RES by 35%. Avoided imports of fossil fuels: >1.5 billion US\$ per year. Biomass heating – 50,000 automatic systems installed. Total employment in biomass heating is 4500 jobs. Currently, 80% of power comes from RES. goal is to reach 100% by 2030.

Most important thesis from discussions are:

- ▶ Switching from feed-in tariff to a different mechanism -- a feed-in premium.
- ▶ In Austria local authorities concerned to support their internal farmers so there are various incentive in sector of space heating from biomass

Upper Austria's sustainable energy strategy build on 3 pillars:

- Regulatory measures (sticks)
- Financial measures (carrots)
- Information and training (tambourines)



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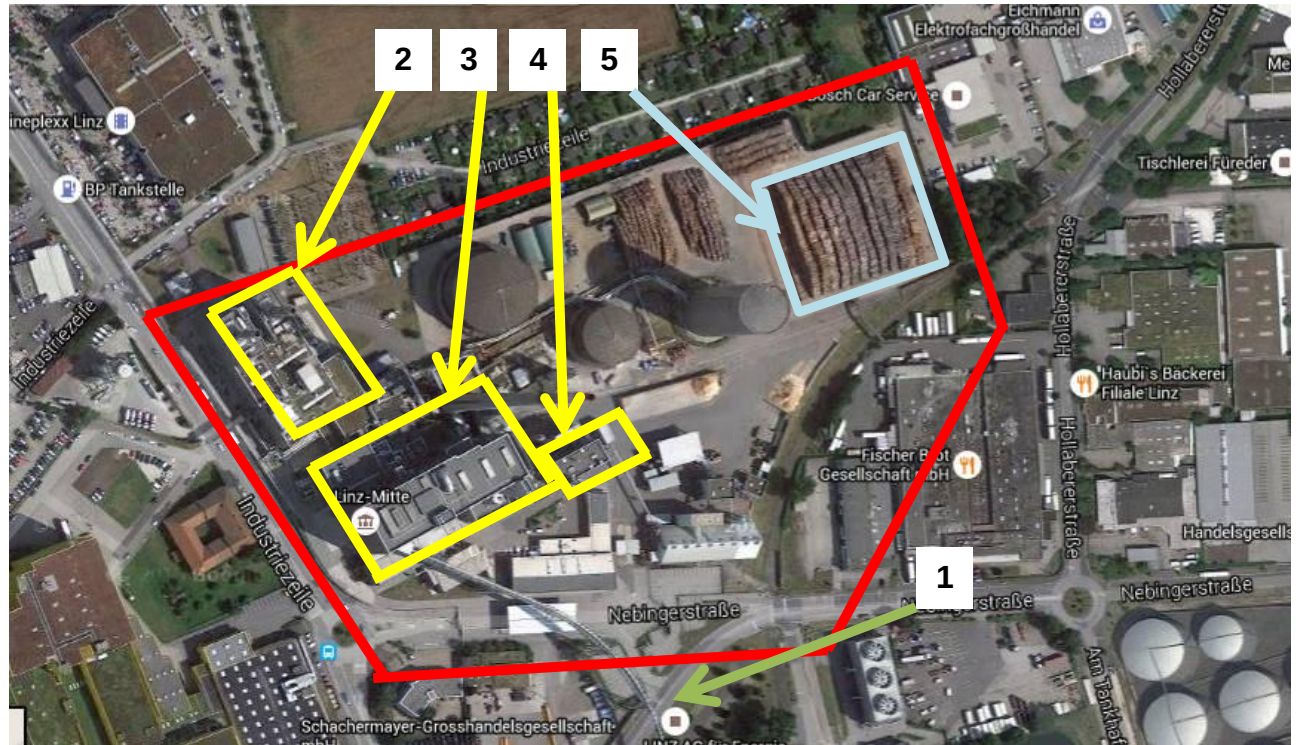
Ecoenergy cluster, OÖ Energiesparverband, #1

Friday, December 4, 2015

Biomass CHP AND MSW Incineration plant in Linz CityLinz

Territory of CHP – general view

- 1 – conveyor for MSW delivery
- 2 – gas-fired CHP
- 3 – Waste incineration plant
- 4 – Biomass CHP
- 5 – Wood logs storage 10 000 m²



The CHP consists of three independent units:

- Biomass (wood chips) unit: 30 MW_{th}+9 MW_{el}
- MSW incineration unit: 60 MW_{th}+12 MW_{el}
- Gas turbines (steam-gas cycle) generation unit: 200 MW_{th} + 40 MW_{el}

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ENERGIE AG
Oberösterreich
Wir denken an morgen

Biomass CHP AND MSW Incineration plant in Linz CityLinz, #2

Friday, December 4, 2015

➤ *Company supplying electric cars, namely Tesla S, following Tesla's strategy to emulate typical technological-product life cycles and initially enter the automotive market with an expensive, high-end product targeted at affluent buyers.*

✓ EcoTech produces electric chargers as well. It helps to charge an electric car as soon as needed.



- ▶ Tesla's Model S is a fully electric luxury sedan, which was followed by the Model X, a crossover. Global cumulative Model S sales passed 90.000 units by October 2015.



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REPUBLIK ÖSTERREICH
Parlament

The Parliament of Austria (the Federal Assembly) consists of two chambers:

- The Federal Council - Bundesrat (64 seats). Members of the Federal Council are elected by the Landtags (parliaments) of all 9 lands of Austria. The Landtags are presented by different number of members (3 to 12) depending on the population of the land.
- National Council - Nationalrat (183 seats). Deputies are elected by proportional system. The parties hit a barrier of 4% to be presented in the National Council. The term of their authorities is 4 years.

Parliament of Austria, #2

- ▶ Legislation on renewable energy sources of Austria are based on general European Union legislation. Although using of renewable energy sources is a subject to the legislation of the federal states. Electricity from renewable sources is supported mainly through a feed-in tariff. Furthermore, the construction of PV installations on buildings and small or medium-sized hydro-electric power stations is supported through subsidies. Electricity from renewable sources is granted access to the grid according to the general legislation on energy and according to non-discriminatory principles.

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Saturday, December 5, 2015

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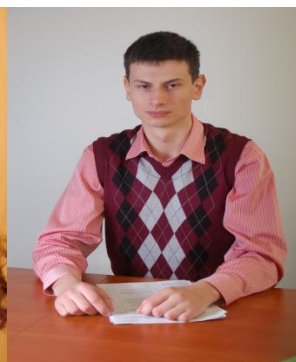
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...and do not hesitate to contact us ☺



#Thankyou!



#BHF #StudyTrip #Vienna #Austria #YoungGenerationWillChangeUkraine #2015