SKILLS+
Interreg Europe

Inovation management and technology transfer

European Union
European Regional
Development Fund

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VSB – Technical University Ostrava, Zemědělský výzkum Troubsko, Ltd.

SMEs in rural areas should be supported to be able to seize full opportunities offered by a digital single market and benefits of a digital economy.
SKILLS+ therefore aims to advance public policies promoting ICT skills and embracing the exciting new business opportunities of the digital world.

INTRODUCTION

1.1 Where to find us

Ostrava, Czech Republic

www.vsb.cz

1.3 Moravia Silesian Region

1,2 mil. inhabitants

230 inhabitants/km^2

- 1994 Closing of mines in Ostrava (after 200 years)
- RESTRUCTURING – 120.000 people lost their jobs

Ostrava

Development of the Company since 1828

In 1810, Scottish engineer John Baildon prepared a plan to build an iron works centre in Ostrava. Olomouc archbishop archduke Rudolf Jan supported the plan, and the foundations of the Vítkovice Iron-Works were laid in 1828.

Franz Xavier Riepl, a professor of the Vienna Polytechnic Institute, responsible for implementing the steam railway project from Vienna to Krakow (stopping in Ostrava) also supported the plan.

In 1843, the strongest of the stakeholders of the Vítkovice Corporation, Salomon Mayer Rothschild, bought out the shares of the Olomouc Bishopric, and integrated it with the local coalmines he had also purchased. The iron works had its own blast furnace plant with a foundry, a puddle plant, rolling mill, forge, boiler shop, machinery shop, brick production shop, and other shops.

Under the Rothschilds, new shops and production programs were added to further the development of the works. In order to meet the growing demand for railway rails, the Areslim Rolling Mill Plant was built in 1847. A third blast furnace was added in 1856. A new method of iron refining, known as the Bessemer process, was introduced in 1866. In 1872, a new Scottish blast furnace was installed, at that time the largest of its kind in the Austro-Hungarian Monarchy. The machinery shop built steam engines, bridges, railway wagons, mining machines, steel plant machines, railway wheels and rail switches.

Archduke Rudolph Jan

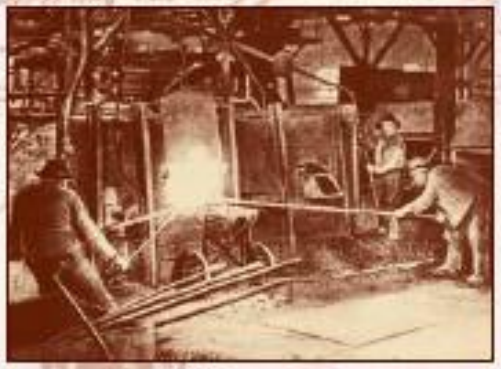
Franz Xavier Riepl

Official notification of the decision of the Archbishop of Olomouc to set up a puddle furnace for iron production

Vítkovice

History of TU Ostrava
13.10.1716

Salomon Mayer Rothschild



2. Sustainable Energy – Priority at VŠB – TU Ostrava

2.1 VŠB – Technical University of Ostrava






- 1849 School of mines - Příbram Faculties
- 1945 – Ostrava
- 1989 – 7000 Students (Mining, Metalurgy, Heavy machinery)

7 Faculties

23,000 Students

VSB-Technical University Ostrava

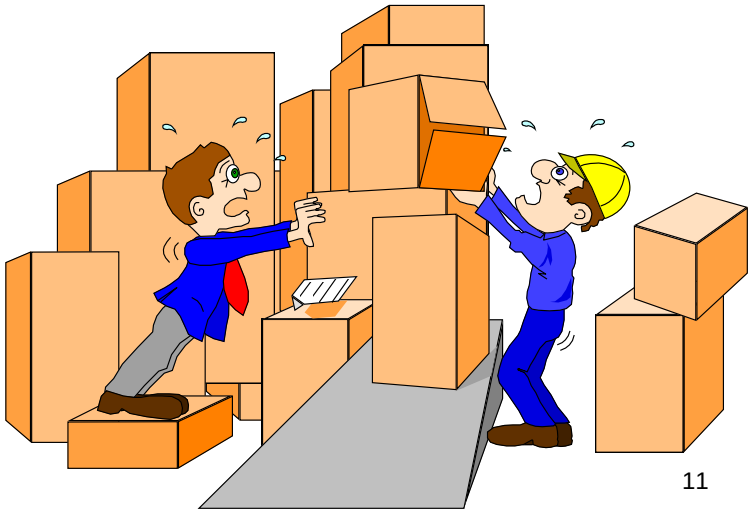
www.vsb.cz, over 160 years tradition

Over 50 years experience of the Institute of Energy utilization

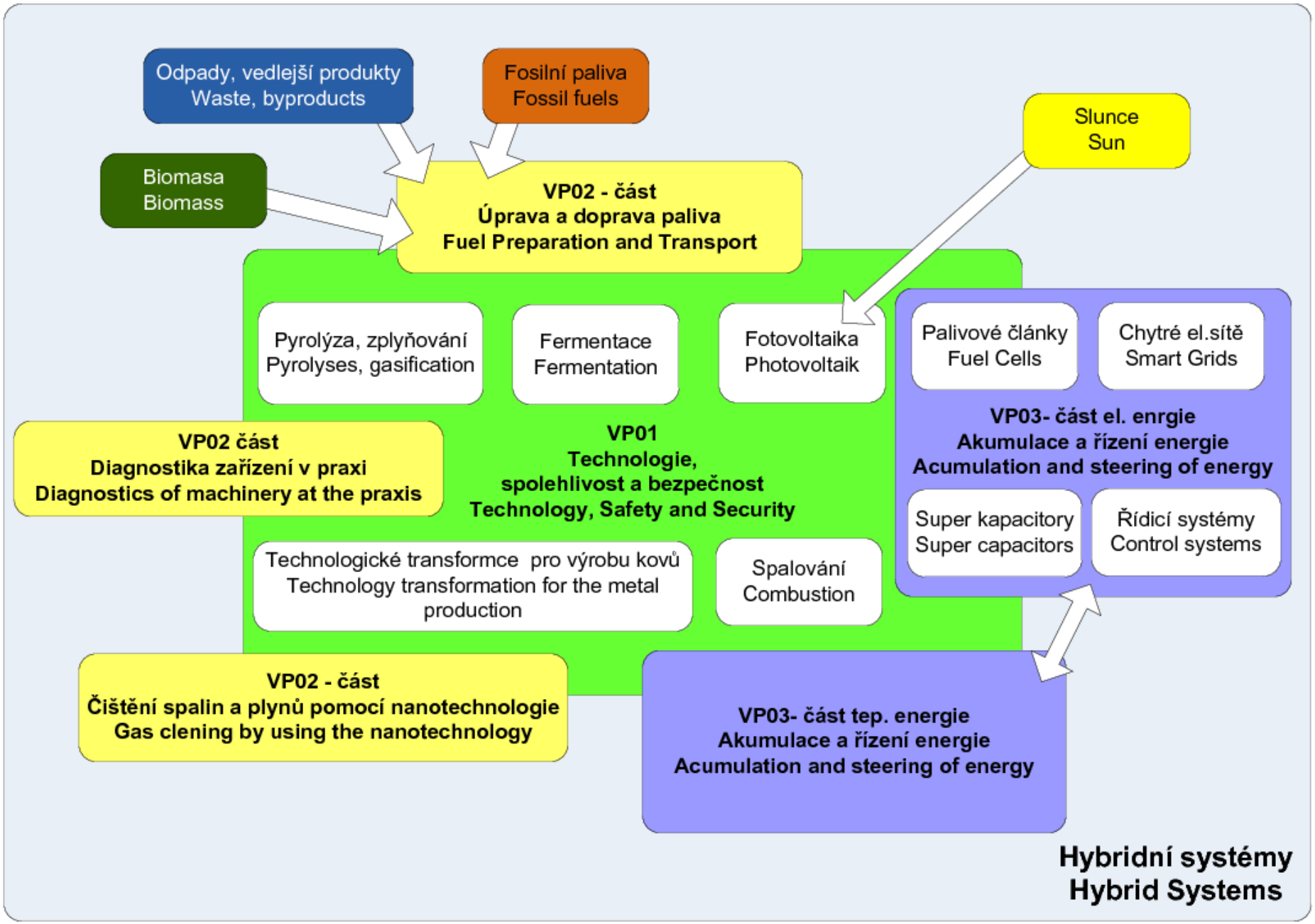
2.2 Sustainable Energy – Priority on VŠB-TUO

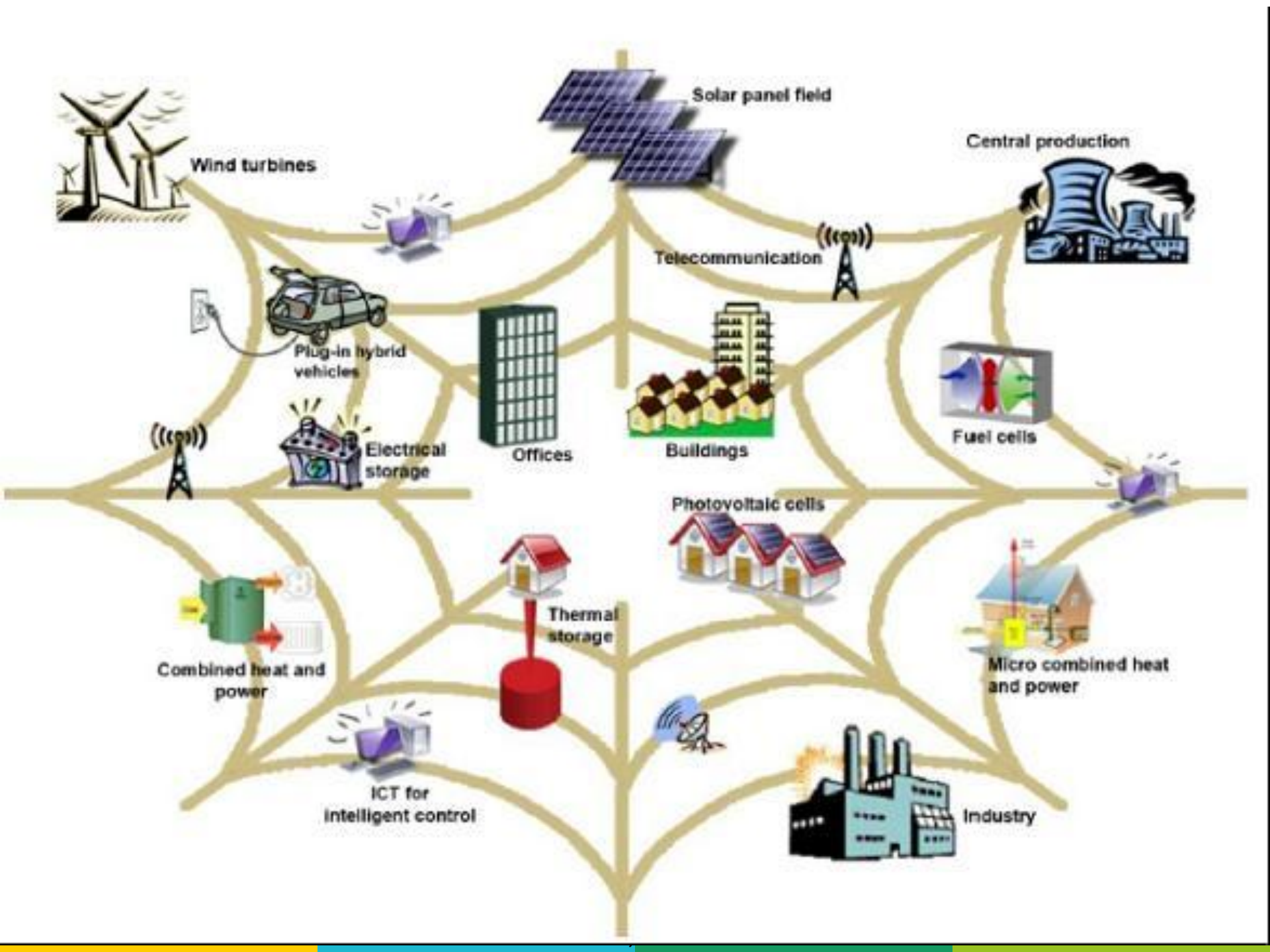
Energy research centres VSB-TUO Built utilizing EU funds

Energy Institutes



Logistic systems



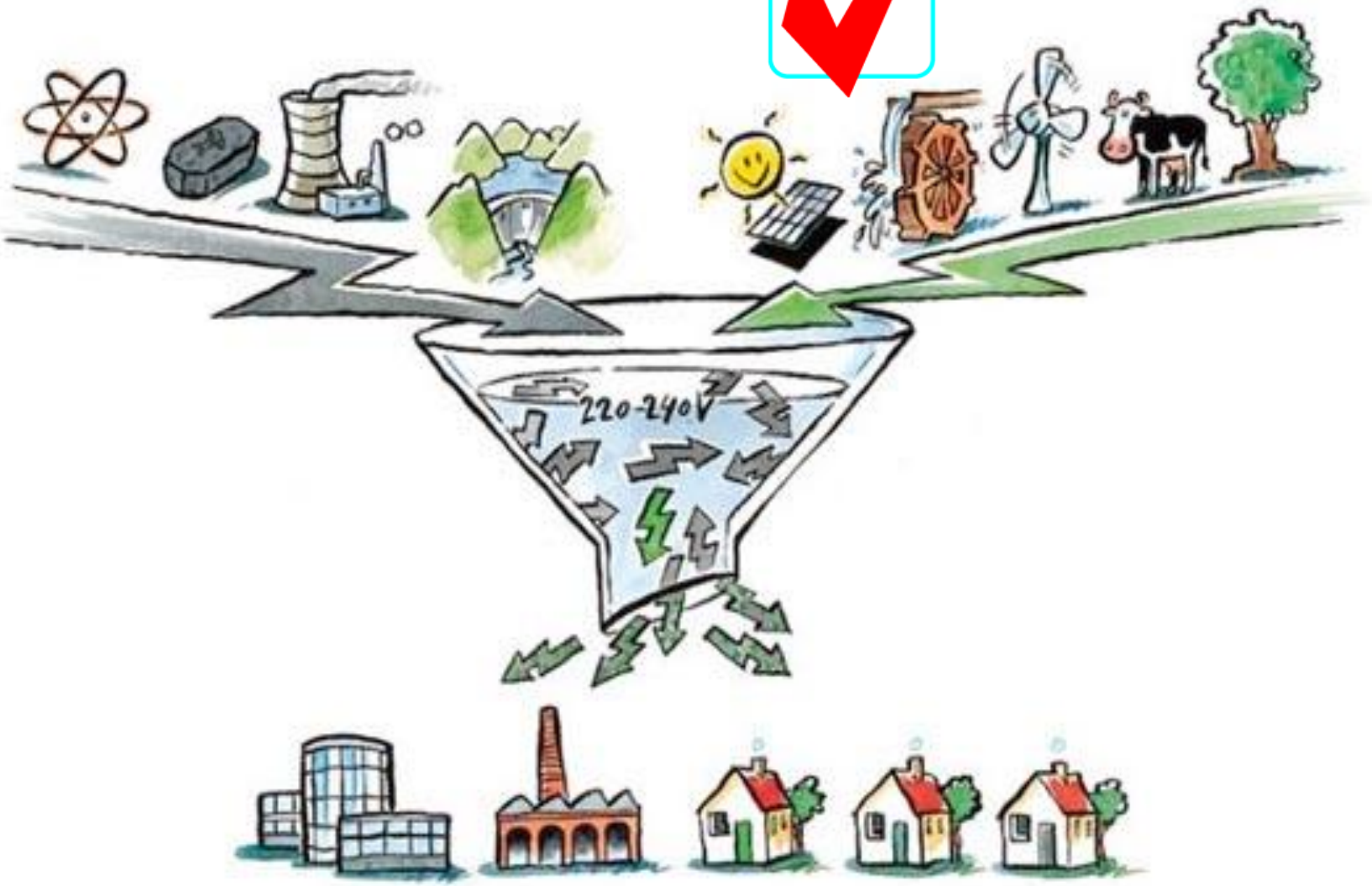

Solar panel field
Wind turbines
Central production
Telecommunication
Plug-in hybrid vehicles
Offices
Buildings
Fuel cells
Electrical storage
Photovoltaic cells
Thermal storage
Combined heat and power
Micro combined heat and power
ICT for intelligent control
Industry

Situation

International collabo

14

Fazit



http://www.mannstrom.de/cms44/index.php?option=com_content&view=article&id=21&Itemid=65

Innovation support and cooperation with MSP

1. 2009 Beginning

- Leader prof. Dagmar Juchelková, Ph.D. – MSP acqusition and research design for MSP needs
- Experts

  – prof. Helena Raclavská – cooperation with public administration and research design

  -Ing. Marie Kubáňková, Ph.D. – fundraising, MPS acquisition, R&D publicity

  -Ing. Veronika Sassmanová, Ph.D. – research activities and research projects

  -Ing. Petr Pavlík – marketing and R&D publicity

Technology transfer and marketing

2. Financial support

- INTER Energy (2009 – 2012) – cooperation with SME - interships
- TECHNOLOGY TRANSFER AND INOVATION in agriculture, food processing and bioenergetics – (2012-2014) – setting of transfer mechanisms, seminars round tables with SMEs, www.inovaceztv.cz
- R&D PROMOTION (2012 – 2015) –marketing of R&D outputs, emarketing www.bioenergetikazvt.cz, www.eie-jinak.eu

Networking

3. Results = cooperation with SMEs & public administration

- Long term cooperation with SME – Zemědělský výzkum Troubsko, s.r.o., Agrolab, s.r.o ,
- Close cooperation with public authorities – Ostrava Municipality, Moravian-Silesian region, Třinec Town, TAČR
- Common projects with NGOs – Association for the Development of Moravia and Silesia (Sdružení pro rozvoj Moravy a Slezska), Chamber of Commerce, Asociation of Research Organisations
- Technological – Economical – Environmental - czTEE platform www.cztee.eu

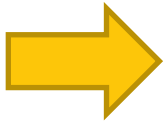
Current projects

VSB is currently solving the following projects:

1) New innovative technology of composting
   - based on biocarbon (Epsilon TACR with ZVT)
   - using new textile (OP PIK – 1st PA with ZERA agency and ZVT)

2) New desing of biogas unit for solid municial waste (Epsilon TACR with ZVT and Agroeko)

3) Assistant of Knowledge transfer – Agrolab (OP PIK – 1st PA with Agrolab, s.r.o.)



4) Best practices in technological transfer and joint projects in ERDF – OP PIK – 1st priority Axis

ERDF project – OP PIK

The OP Enterprise and Innovations for Competitiveness

- Sub programme funding of Assistant of Knowledge transfer
- Cooperation between university or research organisation and the SME
- The contribution of EU funds is 70% of the eligible expense

Quality Criterions

- concrete clarification of desired output
- a detailed business plan
- identification of knowledge as a object of transfer

Case study & Good practice

ICT IN SME – CLOUD

ZERA Agency

Cloud establishment

- A large number of projects with external organisations and experts (VŠB, MENDELu, ZVT etc.)
- Main communication channel – email

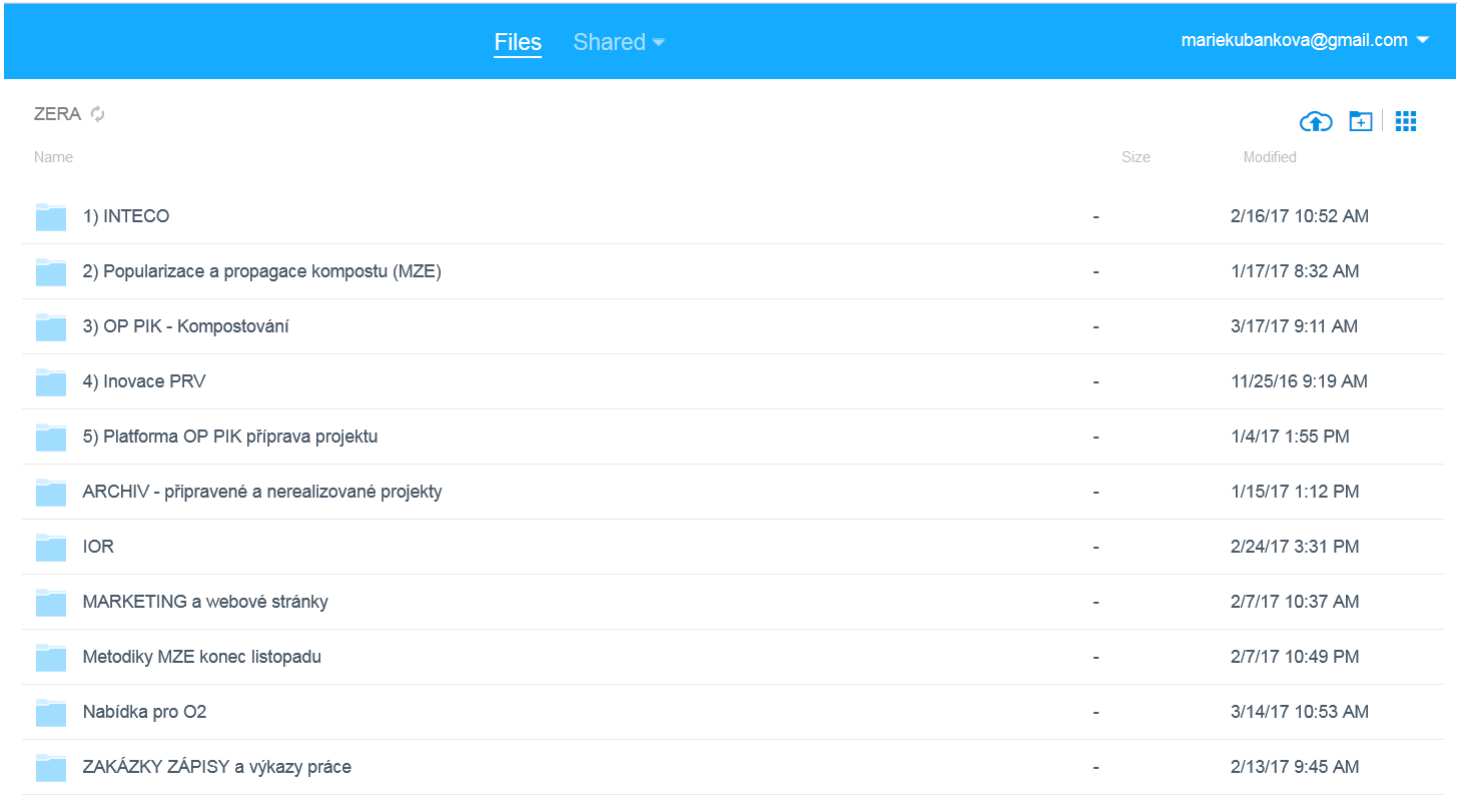
  Difficulities to sort documents

  Repeated sending

  Lost in email…☺ → CLOUD

One issue is : to create, the other is : to use☺

mycloud.com


Files
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mariekubankova@gmail.com
ZERA
Name
Size
Modified
1) INTECO - 2/16/17 10:52 AM
2) Popularizace a propagace kompostu (MZE) - 1/17/17 8:32 AM
3) OP PIK - Kompostování - 3/17/17 9:11 AM
4) Inovace PRV - 11/25/16 9:19 AM
5) Platforma OP PIK příprava projektu - 1/4/17 1:55 PM
ARCHIV - připravené a nerealizované projekty - 1/15/17 1:12 PM
IOR - 2/24/17 3:31 PM
MARKETING a webové stránky - 2/7/17 10:37 AM
Metodiky MZE konec listopadu - 2/7/17 10:49 PM
Nabídka pro O2 - 3/14/17 10:53 AM
ZAKÁZKY ZÁPISY a výkazy práce - 2/13/17 9:45 AM

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Ladies and Gentlemen
Thank you for your attention

Questions welcome

Project's media

Děkuji vám za pozornost