Ziel-ETZ: Freistaat Bayern – Tschechische Rebuplik 2014-2020 (INTERREG V), Project 053

Cross Border R&I Network for Energy Efficiency and Combined Cold Heat and Power

Přeshraniční síť pro výzkum a inovace v oblasti energetické účinnosti a kombinované výroby tepla a elektřiny

Grenzüberschreitendes F&I Netzwerk für Energieeffizienz und Kraft-Wärme-(Kälte)-Kopplung

Ziel ETZ | Cíl EÚS
Freistaat Bayern – Tschechische Republik
Česká republika – Svobodný stát Bavorsko
2014 – 2020 (INTERREG V)

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Project History

Czech-Bavarian Workshop on Combined Heat and Power/Renewable Energies
April 23 – 24, 2015 at OTH Amberg-Weiden, Amberg
6 successful SMEs in the border region working in energy technologies

SMEs

Classical university, well experienced in advanced CAE – & advanced additive manufacturing- methods

Faculty of Mechanical Engineering: 5-6 senior researches + 4 new junior researchers

Young, small university used to close collaboration with industry, well experienced in experimental methods & measurement techniques

Faculty of Mechanical & Environmental Engineering: 4 senior researches + 2 new junior researchers
What brings us together, what do we have in common?

• Renewable Energies
• Energy Efficiency (EE)
• Combined Cold Heat and Power Systems (CCHP)

What is our project vision?

• To build up a cross border R&I network for EE & CCHP in order to strengthen sustainably the R&I capabilities and thus the competitiveness of our SME partners.

The goal is the way – or vice versa?
Project Contents & Goals

**Founding and establishing a growing and self developing R&I network**
- 1-2 workshops a year including all partners
- defining work packages and working teams which meet 3-4 times a year
- common regular reporting (i.e. half a year), common publications
- public workshops

**Sustainable implementation of advanced CAE-methods within SME partners**
- conducting numerical investigation of existing or future geometries
- common analysis and interpretation of results
- suggestions for improvements, reports

**Sustainable implementation of advanced experimental methods within SME partners**
- conducting experimental investigation of existing geometries
- common analysis and interpretation of results
- suggestions for improvements, reports

*The goal is the way – or vice versa?*
Recent Synergy Effects of the Project

1st Czech Bavarian Winter School „Energy Conversion in Turbomachines“
• 21st&22nd November at Amberg, 5th & 6th December at Pilsen
• Participants: 8 Czech, 1 Hungarian and 7 German students

Project application „New Materials in Additive Manufacturing“ in „Bayerisch-Tschechische Hochschulverbünde/Česko-bavorská výzkumná konsorcia“
• University of West Bohemia, University of Ostrava, OTH & Fraunhofer UMSICHT
• Deadline 23.12.16
Thank you for your attention