

## SPIRE

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Presentations of the SPIRE Brokerage session in the PPPs Info days from 16-17 December 2013, Brussels:

- SPIRE PPP topics in Horizon2020 Work Programme 2014-2015
- Presentations of the SPIRE Brokerage session in the PPPs Info days :
  - **Database** of the projects presentations (check below)
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Recordings of the sessions and presentations from the plenary and parallel sessions

- Video summary of the event:

### **SPIRE Brokerage – Project ideas: 2014 Calls**

Key Component: PROCESS

- **CENTRE FOR RENEWABLE ENERGY SOURCES AND SAVING (CRES)** - Cost effective process heat pumps for industrial heat recovery
- **CARTIF** - Development of sensors, analyzers and model-based control to optimize manufacturing processes of chemical fertilizers
- **FORESA** - Cooling of high viscous products during batch processes
- **AC-RAEDLER** - Energy, resource, emissions savings for European industry
- **AC-RAEDLER** - ROP-Programm
- **COPPER ALLIANCE - EUROMETAUX** - Renewables Powered Industrial Process
- **LULEÅ UNIVERSITY OF TECHNOLOGY** - Tracking, tracing and measuring granular products with disposable RFID
- **CPI** - SPIRE 1
- **CPI** - SPIRE 2
- **INCOTEC** - Cross-sectorial demonstration project of a new PAT based on low cost sensors for energy & ambient real time monitoring
- **ZURICH UNIVERSITY OF APPLIED SCIENCES** - Development and industrial implementation of fast and sensitive technologies for the on-line and real-time monitoring of volatile organic compounds (VOCs) for process control
- **ZURICH UNIVERSITY OF APPLIED SCIENCES** - Novel conceptual approach in process development and catalyst design
- **LANXESS** - Development of robust waste water pre-processing
- **BFI** - New inline measurements and closed loop process control of high temperature processes
- **BFI** - Optimisation of batch processes by new inline measurements and Iterative Learning Control
- **BFI** - Converting Steelwork Process Gases to Feedstock for Chemical and Energy Industry
- **BFI** - Convert Chem2Steel and Steel2Chem Cross sectorial use of process gases as feedstock for steel and basic chemicals
- **UNIVERSITY OF LIMERICK** - Perspectives from the Irish Pharmaceutical Research Sector
- **MALARDALEN UNIVERSITY** - Safety and security in process-industrial IT and automation
- **MALARDALEN UNIVERSITY** - Integration of Production Machinery
- **MALARDALEN UNIVERSITY** - Optimizing of energy balances and simulation of primary & secondary heat systems in pulp and paper mill
- **MALARDALEN UNIVERSITY** - Adaptive dynamic models for maintenance-on demand and process optimization of combined heat and power plants
- **IMZ** -TEDERAM
- **SSSA** - Energy and resource management systems for improved efficiency in the process industry
- **ArcelorMittal** - Industrial Synergy by Energy Network Optimization
- **TERREAL CIRCE** - Gasification for Energy Intensive Users - GENIUs

- **TECSOL** - Solar cooling systems
- **ITC** - Smart Process Control SPC

Key Component: HORIZONTAL

- **COPPER ALLIANCE - EUROMETAUX** - Energy Management Training
- **ATEES** - Active Tool to determine best solutions in energy and emission savings in industry
- **ArcelorMittal**
- **SOLVAY** - Indicators for cross-sectorial sustainability assessment

Key Component: FEED

- **CHEMELOT INSTITUTE OF SCIENCE & TECHNOLOGY (InSciTe)** - Developing and piloting Furfural, HMF and Lignin platform technologies
- **VOKERAL** - Incorporation of a variety of organic wastes into clay ceramics production for the GHG emission reduction.
- **VOKERAL** - Reduction of GHG emissions. Valorisation of a variety of industrial inorganic waste or by-products into resources.
- **CSM** - Agricultural residues valorisation as alternative fuels for energy intensive industries

Key Component: WASTE2RESOURCE

- **CYNAR PLC** - Biomass and residues to create future fuels, providing sustainable energy and process efficiency
- **SWEREA MEFOS** - Efficient Valorization and Use of P and V Resources to secure future demand in EU
- **SWEREA MEFOS** - Pre-processing of wastes for increased recycling
- **TENARIS** - Recovery of other valuable metals
- **ARCELOR MITTAL** - Recovery technologies for metals and other minerals
- **VOESTALPINE** - Recovery technologies for metals and other minerals

Key Component: APPLICATIONS

- **WIENERBERGER AG** - Biomass clay granulate
- **WIENERBERGER AG** - Biomass heating for Dryer
- **ENMIX - UNIVERSITY OF HANNOVER** - Hybrid Separation Processes
- **COPPER ALLIANCE - EUROMETAUX** - Thermal Energy Storage

Other

- List of registered attendees can be found [here](#).
- SPIRE Topics presentation WP2014-15