Real-time Monitoring and Optimization of Resource Efficiency in Integrated Processing Plants

Fact Sheet

Project Information

MORE

Grant agreement ID: 604068

Status
Closed project

Funded under
FP7-NMP

Overall budget
€ 3 893 037.80

EU contribution
€ 2 815 572

Coordinated by
INNO TSD
France

Start date
1 November 2013
End date
28 February 2017

This project is featured in...

RESULTS PACK
Energy efficient process industries: Furthering Europe’s ambitious environmental targets

15 June 2016

Objective

In recent years, indicators for the environmental impact of products and production...
In recent years, indicators for the environmental impact of products and production processes have been developed and are increasingly used in the communication of companies in the processing industries with the public as well as in the evaluation of alternative routes and for the decision on investments into new production facilities or revamp measures. In the MORE project, we will significantly extend the definition and the use of such indicators by

• Defining real-time resource efficiency indicators that can be efficiently used in daily operations and are computed based upon the processing of real-time data that is available in the monitoring and control systems and from innovative analytical measurements
• Taking the step from monitoring to improving resource efficiency by providing model-based real-time decision support to plant operators and plant managers.

We will deal with resource efficiency as a multidimensional attribute with several indicators that measure different aspects of resource efficiency.

The project is focused on large integrated chemical and petrochemical plants with many interconnected units. The real-time resource efficiency indicators and decision support tools will be developed exemplarily for this domain and will be adapted also to domains with similar production systems, e.g. sugar production, the pulp and paper industry, and metals production. Moreover the transferability to different sectors as e.g. the food industry will be investigated.

The project will trigger standardization activities and input its result into the work of standardization bodies and disseminate the resource efficiency indicators and the real-time decision support methods to the whole process industry.

---

**Field of science**

/social sciences/economics and business/economics/production economics
/natural sciences/chemical sciences/inorganic chemistry/metals

**Programme(s)**

**Topic(s)**

**Call for proposal**

FP7-NMP-2013-SMALL-7

**Funding Scheme**

CP-FP - Small or medium-scale focused research project
### Coordinator

**INNO TSD**

**Address**

Place Joseph Bermond  
Ophira I  
06560 Sophia Antipolis  
Valbonne  
France

**Activity type**

Private for-profit entities  
(excluding Higher or Secondary Education Establishments)

**EU contribution**

€ 404 190

**Website**

Contact the organisation

**Administrative Contact**

Claudine Proutet (Ms.)

### Participants (10)

**TEKNOLOGIAN TUTKIMUSKESKUS VTT**  
Finland

**Address**

Tekniikantie 4 A  
02044 VTT Espoo

**Activity type**

Research Organisations

**EU contribution**

**Website**

Contact the organisation

**Administrative Contact**

Tiina Pajula (Ms.)

**PETROLEOS DEL NORTE SA**  
Spain

**EU contribution**

€ 122 660

**Address**

Calle San Martin 5  
48550 Muskiz Vizcaya

**Activity type**

Private for-profit entities  
(excluding Higher or Secondary Education Establishments)

**Website**

Contact the organisation

**Administrative Contact**

Rafael Gonzalez Martin (Mr.)

**INEOS KOLN GMBH**
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASF Personal Care and Nutrition GmbH</td>
<td>€ 154,560</td>
<td>Rheinpromenade 1 40789 Monheim</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>LEIKON GMBH</td>
<td>€ 346,346</td>
<td>Kaiserstrasse 100 52134 Herzogenrath</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>Teknologian tutkimuskeskus VTT Oy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation</td>
<td>EU contribution</td>
<td>Address</td>
<td>Activity type</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-----------------</td>
<td>----------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>TECHNISCHE UNIVERSITAT DORTMUND</td>
<td>€ 536 879</td>
<td>August Schmidt Strasse 4 44227 Dortmund</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>UNIVERSIDAD DE VALLADOLID</td>
<td>€ 295 040</td>
<td>Plaza Santa Cruz 8 Palacio De Santa Cruz 47002 Valladolid</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>S-PACT GMBH</td>
<td>€ 220 288</td>
<td>Turmstrasse 46 206 A h</td>
<td>Private for-profit entities</td>
</tr>
</tbody>
</table>
LENZING AKTIENGESELLSCHAFT
Austria
EU contribution
€ 124 614

Address
Werkstrasse 2
4860 Lenzing

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Administrative Contact
Siegfried Hager (Mr.)

Last update: 8 July 2016
Record number: 110822

Permalink: https://cordis.europa.eu/project/id/604068/

© European Union, 2020