**NILE**

**Project ID:** 19882  
**Funded under:** FP6-SUSTDEV

---

**New Improvements for Ligno-cellulosic Ethanol**

**From** 2005-10-01 to 2010-03-31 | **NILE Website**

---

**Project details**

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>EUR 12 637 826</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU contribution:</td>
<td>EUR 7 517 200</td>
</tr>
<tr>
<td>Coordinated in:</td>
<td>France</td>
</tr>
</tbody>
</table>

**Topic(s):**  
SUSTDEV-1.2.5 - New and advanced concepts in renewable energy technologies - Biomass

**Call for proposal:**  
FP6-2004-ENERGY-3  
[See other projects for this call](#)

**Funding scheme:**  
IP - Integrated Project

---

**Objective**

NILE is a 4-year integrated project addressing the topic “New and advanced concepts in renewable energies - Biomass”. Its overall objective is to develop cost effective production of clean bioethanol from lignocellulosic biomass (LCB), enabling its use as a transport biofuel. NILE will develop, investigate and evaluate new technologies for efficient conversion of lignocellulose to bioethanol. These technologies will be verified using a unique and fully integrated pilot plant providing reliable data for global socio-economic and environmental assessments and for the design of a future demonstration unit. The activities of NILE aim at overcoming critical hurdles in process development. Key issues are: - decreasing the cost of enzymatic hydrolysis of lignocellulose to fermentable sugars using new engineered enzyme systems; - removing current intrinsic limitations in the conversion of fermentable sugars to ethanol by i) constructing inhibitor-tolerant pentose-fermenting industrial yeast strains, and ii) combining fermentation and saccharification; validating the engineered enzyme systems and yeast strains in a fully integrated pilot plant using softwood and wheat straw as model feedstock. Validation includes all process steps and recycling of process streams; - analysing socio-economic and global environmental impacts of the production and use of bioethanol from LCB based on the new data obtained; - dissemination and training of target groups. The project mobilizes the critical mass of end-users and world-leading expertise necessary to improve the whole bioethanol from LCB chain. By its integrated structure, NILE supports the development of research activities in close connection with industrial processes, their validation, their technical and socio-economic assessments, their dissemination as well as training activities. This development ensures a real industrial and societal impact of the developed technology thus strengthening European competitiveness.

---

**Related information**

**Result In Brief**  
Optimising bioethanol production

**Report Summaries**  
Final Report Summary - NILE (New Improvements for Ligno-cellulosic Ethanol)
Coordinator

IFP ENERGIES NOUVELLES
1-4 avenue de Bois-Preau
RUEIL-MALMAISON
France

Administrative contact: Frederic MONOT
Tel.: +33-147527353
Fax: +33-147527001
E-mail

Participants

ENI S.P.A.
Piazzale Enrico Mattei 1
ROMA
Italy

Administrative contact: Ezio Nicola D'ADDARIO
Tel.: +39-06-90673261
Fax: +39-06-90673296
E-mail

ROAL OY
Tykkimaentie 15
RAJAMAKI
Finland
See on map

Administrative contact: Jari VEHMAANPERA
Tel.: +358-929042120
Fax: +358-929042112
E-mail

SAF-ISIS
Zone Artisanale
SOUSTONS
France

Administrative contact: Patrick TAILLADE
Tel.: +33-558413401
Fax: +33-558415025
E-mail
Horneborgsvagen 12
286 ORNSKOLDSVIK
Sweden

**Administrative contact:** Stig-gunnar ERIKSSON
Tel.: +46-66075851
Fax: +46-66051629
E-mail

DIREVO INDUSTRIAL BIOTECHNOLOGY GMBH
Nattermannallee 1
COLOGNE (KOLN)
Germany

**See on map**

**Administrative contact:** Klaus PELLENGAHR
Tel.: +49-22188870
Fax: +49-2218887111
E-mail

SEKAB E-TECHNOLOGY
Horneborgsvagen 12
286 ORNSKOLDSVIK
Sweden

**Administrative contact:** Gunnar FRANSSON
Tel.: +46-66075194
Fax: +46-66054903
E-mail

BIOALCOHOL FUEL FOUNDATION BAFFSAB AB
Horneborgsvagen 12
ORNKOLDSVIK
Sweden

**See on map**

**Administrative contact:** Jan LINDSTEDT
Tel.: +46-66075193
Fax: +46-66054903
E-mail
EUREC AGENCY E.E.I.G.  
Rue d'Arlon 63-65  
BRUSSELS  
Belgium  

**Administrative contact:** Katharina KRELL  
Tel.: +32-2-5461931  
Fax: +32-2-5461934  
E-mail

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE  
3, rue Michel-Ange  
PARIS  
France  
See on map  

**Administrative contact:** Henri-pierre FIEROBE  
Tel.: +33-491164299  
Fax: +33-491713321  
E-mail

CENTRO RICERCHE FIAT S.C.P.A.  
Strada Torino 50  
ORBASSANO (TORINO)  
Italy  

**Administrative contact:** Andrea GERINI  
Tel.: +39-0119083200  
Fax: +39-0119083647  
E-mail

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE  
147, rue de l'Universite  
PARIS  
France  

**Administrative contact:** Marcel ASTHER  
Tel.: +33-491828604  
Fax: +33-491828601  
E-mail
LATVIAN VALSTS KOKSNES KIMIJAS INSTITUTS (LATVIAN STATE INSTITUTE OF WOOD CHEMISTRY)
Dzerbenes street 27
RIGA
Latvia

Administrative contact: Galina TELYSHEVA
Tel.: +371-7555916
Fax: +371-7550635
E-mail

VTT VALTION TEKNILLINEN TUTKIMUSKESKUS
Vuorimiehentie 5
1000 ESPOO
Finland

See on map

Administrative contact: Liisa VIIKARI, (Research Professor)
Tel.: +358-207225140
Fax: +358-207227071
E-mail

SWISS FEDERAL INSTITUTE OF TECHNOLOGY ZURICH
ETH Zentrum, Ramistrasse 101
ZURICH
Switzerland

Administrative contact: Uwe SAUER
Tel.: +41-1-6333672
Fax: +41-1-6331051
E-mail

JOHANN-WOLFGANG GOETHE-UNIVERSITAET FRANKFURT AM MAIN
Senckenberganlage 31
FRANKFURT AM MAIN
Germany

Administrative contact: Eckhard BOLES
Tel.: +49-6979829513
Fax: +49-6979829527
E-mail
Administrative contact: Peter PEARSON
Tel.: +44-2075949332
Fax: +44-2075949334
E-mail

UNIVERSIDADE NOVA DE LISBOA/FACULDADE DE CIENCIAS E TECNOLOGIA
Campus da FCT/UNL
CAPARICA
Portugal
Administrative contact: Isabel SPENCER-MARTINS
Tel.: +351-212948530
Fax: +351-212948530
E-mail

LUNDS UNIVERSITET
Paradisgatan 5C
P.O.Box 117 LUND
Sweden
See on map
Administrative contact: Baerbel HAHN-HAGERDAL
Tel.: +46-46-2228428
Fax: +46-46-2224203
E-mail

WEIZMANN INSTITUTE OF SCIENCE
Herzl St.
REHOVOT
Israel
Administrative contact: Edward A. BAYER
Tel.: +972-8-9342373
Fax: +972-8-9468256
E-mail

MONDI BUSINESS PAPER SERVICES AG
Haidmuhlsstrasse 2-4
ULMERFELD-HAUSMENING
Austria
Administrative contact: Gerhard DREXLER
Tel.: +43-074755005130
E-mail
GRANIT RECHERCHE DÉVELOPPEMENT SA
Rue du Grand-Chene 5
LAUSANNE
Switzerland

**Administrative contact:** Alfred ABAECHERLI
Tel.: +41-213187515
Fax: +41-213187511

*Last updated on* 2010-11-30
*Retrieved on* 2018-09-19

**Permalink:** https://cordis.europa.eu/project/rcn/75087_en.html
© European Union, 2018