



GA No. 691911



## Research Coordination for a Low-Cost Biomethane Production at Small and Medium Scale Applications

### Deliverable No. D3.1

R&D database for funding calls aiming at the further development of small to medium scale biomethane production and supply

Dissemination Level		
<b>PU</b>	Public	x
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

Nature		
<b>R</b>	Report	x
<b>O</b>	Website	

Deliverable Details		
Due date:	31.01.2017	
Submission date:	10.02.2017 – Re-submission on 24.08.2017	
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WP no. and title:	WP3 R&D Strategy Development & Project Concepts	
WP leader:	DBFZ	
Task no. and title:	3.1 R&D Call Database	
Task leader:	DBFZ	
Draft/Final:	Final	
Keywords:	biomethane network, biomethane map, funding for biomethane projects, bioenergy call database	

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## 1 Introduction

The further development of small to large scale biomethane production is crucial to be able to upgrade small biogas plants to biomethane production and therefore make them more flexible and profitable in comparison to plants producing biogas only. With biomethane there are new possibilities given in its end use, such as the direct grid injection on the one side or the use as a transport fuel on the other side. Both allow additional business areas for the biogas plants supplementary to heat and power production from biogas. Thus upgraded biogas plants are much more flexible than plants which only produce biogas.

With most of the biogas upgrading technologies available on the market so far, it is only economically viable to integrate into large scale biogas plants. New, energy efficient technologies are needed to be able to utilize the biogas upgrading option also at small to medium scale biogas plants in the future. In the framework of the European funded Horizon 2020 project “Record Biomap” new technology solutions along the biomethane supply chain are monitored and if possible supported with dissemination activities to foster the use of research outcomes by the industry.

For the market implementation of these new technologies which allow biogas plant owners to develop their plant to include cost and energy efficient production of biomethane, not only good and stable legislative framework conditions are necessary, but also access to funding for new project concepts. Record Biomap therefore searches and identifies funding possibilities and compiles them in a database which will be made available publicly.

The database will contain available funding opportunities along the entire biomethane supply chain, which means substrate pre-treatment technologies, digestion technologies and biogas upgrading technologies.

## 2 Summary

This report aims to give an overview of current available funding possibilities to support the further development of technologies for a cost and energy efficient production of biomethane in small to medium scale applications.

The currently available calls are also published on the [project website](#) and will be updated regularly. Stakeholders interested in finding consortium partners for the implementation of new projects can always contact the Record Biomap project partners for support or directly search the [Biomethane Map](#) for contacts.

The currently open calls will also be highlighted in project newsletters which are sent regularly to all identified stakeholders of the different target groups, e.g. biogas plant owners, technology developers / technology license sellers, members of biogas/biomethane associations, biogas plant operators, etc.

### 3 R&D Funding Possibilities

#### 3.1 Call Databases

Name	Link
PNO Innovation Place	<a href="https://www.innovationplace.eu/">https://www.innovationplace.eu/</a>
Klima- und Energiefonds (Austria)	<a href="https://www.klimafonds.gv.at/foerderungen/aktuelle-foerderungen/">https://www.klimafonds.gv.at/foerderungen/aktuelle-foerderungen/</a>
NCN	<a href="https://www.ncn.gov.pl/ogloszenia/konkursy/">https://www.ncn.gov.pl/ogloszenia/konkursy/</a>
The National Centre for Research and Development	<a href="http://www.ncbr.gov.pl/en/">http://www.ncbr.gov.pl/en/</a> <a href="http://www.ncbr.gov.pl/en/programy-miedzynarodowe/">http://www.ncbr.gov.pl/en/programy-miedzynarodowe/</a>
Technology Agency of the Czech Republic	<a href="https://www.tacr.cz/index.php/en/">https://www.tacr.cz/index.php/en/</a>
Slovak Research and Development Agency / Agentúra na podporu výskumu a vývoja	<a href="http://www.apvv.sk/?lang=sk">http://www.apvv.sk/?lang=sk</a>
Up2Europe	<a href="https://www.up2europe.eu/">https://www.up2europe.eu/</a>
Research Council of Lithuania	<a href="http://www.lmt.lt/en/rnd.html">http://www.lmt.lt/en/rnd.html</a>
Mokslo, inovacijų ir technologijų agentūra	<a href="http://www.mita.lt/lt/apie-mita-1">http://www.mita.lt/lt/apie-mita-1</a>
Eesti Teadusagentuur	<a href="http://www.etag.ee/teadusagentuur/">http://www.etag.ee/teadusagentuur/</a>

#### 3.2 Funding Programmes

Name	Countries	Next calls expected	Link
Horizon 2020 (EU)	EU-wide		<a href="https://ec.europa.eu/programmes/horizon2020/">https://ec.europa.eu/programmes/horizon2020/</a>
ERAnet	EU-wide	October 2016 (on-going)	<a href="http://ec.europa.eu/research/era/era-net-in-horizon-2020_en.html">http://ec.europa.eu/research/era/era-net-in-horizon-2020_en.html</a>
Interreg South Baltic Programme (2014-2020)	Sweden, Denmark, Germany, Poland, Lithuania	2017	<a href="https://southbaltic.eu">https://southbaltic.eu</a>
BBI Calls	EU	April 2017	<a href="http://www.bbi-europe.eu/about/about-bbi">http://www.bbi-europe.eu/about/about-bbi</a>
CORNET CALLS	Austria, Belgium (specific regions), Czech Republic, Germany, Peru, Poland, Québec, The Netherlands	Dec. 2016	<a href="https://www.cornet.online/calls-for-proposals/current-calls/">https://www.cornet.online/calls-for-proposals/current-calls/</a>

LIFE 2014-2020		May 2017	<a href="http://ec.europa.eu/environment/life/funding/life2014/">http://ec.europa.eu/environment/life/funding/life2014/</a>
Tiroler Innovationsförderung	Austria (Tirol)	continuously	<a href="http://oead.grants.at/out/default.aspx?TemplateGroupID=34&amp;PageMode=3&amp;GrainEntryID=16236&amp;HZGID=17219&amp;LangID=1">http://oead.grants.at/out/default.aspx?TemplateGroupID=34&amp;PageMode=3&amp;GrainEntryID=16236&amp;HZGID=17219&amp;LangID=1</a>
Nationale Energie- und Umweltforschungsprogramme	Austria	continuously	<a href="https://www.ffg.at/content/das-nationale-angebot-f-r-die-energie-und-umweltforschung">https://www.ffg.at/content/das-nationale-angebot-f-r-die-energie-und-umweltforschung</a>
Klima- und Energiefonds	Austria	yearly	Funding plan 2016 <a href="https://www.klimafonds.gv.at/assets/Uploads/Downloads-Forderungen/eMission/LF-Energieforschung-2016.PDF">https://www.klimafonds.gv.at/assets/Uploads/Downloads-Forderungen/eMission/LF-Energieforschung-2016.PDF</a>
EUROSTARS	36 Eurostars Participating States and Partner Countries (United Kingdom, The Netherlands, Belgium, Denmark, France, Spain, Italy, Iceland, Norway, Sweden, Finland, Latvia, Lithuania, Poland, Slovakia, Czech Republic, Romania, Hungary, Austria etc. )	7th call – 2 march 2017 8 call – 14 September 2017	<a href="http://www.eurostars-eureka.eu/">http://www.eurostars-eureka.eu/</a>
EEA Grants - Norway Grants,	The 16 less prosperous EU countries in Central and Southern Europe and the Baltics benefit from the EEA and Norway Grants	continuously	<a href="http://eeagrants.org/News">http://eeagrants.org/News</a>
Interreg Central Baltic	Finland (incl. Åland), Sweden and Latvia as well as all of Estonia.	27 02 2017	<a href="http://centralbaltic.eu/">http://centralbaltic.eu/</a>

CONNECTING EUROPE FACILITY (CEF)	EU-wide		<a href="https://ec.europa.eu/digital-single-market/en/connecting-europe-facility#Article">https://ec.europa.eu/digital-single-market/en/connecting-europe-facility#Article</a>
COST	COST Actions are bottom-up science and technology networks, open to researchers and stakeholders with a duration of four years. They are active through a range of networking tools, such as workshops, conferences, training schools, short-term scientific missions (STSMs), and dissemination activities. COST does not fund research itself.	A one-stage submission process where proposals can be submitted at any time using a dedicated secured online tool (eCOST). There is no deadline, as the Call never closes, but works around two collection dates per year.	<a href="http://www.cost.eu/about_cost">http://www.cost.eu/about_cost</a>
IraSME	Austria Belgium - Flanders Belgium - Wallonia Germany Russia Czech Republic  France - Hauts-de-France (to be confirmed)	March 29, 2017 - noon	<a href="http://www.ira-sme.net/calls/current-call/">http://www.ira-sme.net/calls/current-call/</a>

### 3.3 National Calls

#### 3.3.1 Germany

##### Funding programme “Energetic Biomass Use”

Summary: This call focuses on practical testing and validation of trendsetting, efficient and cost-efficient technologies for power, heat and coupled heat and power production as well as process optimization at demonstration and pilot scale.

Call details and conditions (in German language):

<b>Funding Body / Ministry</b>	BMWi Bundesministerium für Wirtschaft und Energie (Federal Ministry for Economic Affairs and Energy)
<b>Project executing</b>	PtJ

<b>organisation</b>	
<b>Programme</b>	Energetische Biomassenutzung
<b>Focus / Objectives</b>	Im Zuge der Entwicklungen in der Energie- und Forschungspolitik wird die vorliegende Bekanntmachung ergänzend zu den laufenden BMWi-Vorhaben des Förderprogramms „Energetische Biomassenutzung“ und weiterer Förderaktivitäten anderer Ressorts neu ausgerichtet. Im Fokus der Förderung stehen vorrangig die praxistaugliche Erprobung und Validierung von zukunftsweisenden, effizienten und kostengünstigen Technologien zur Strom-, Wärme- und gekoppelten Strom- und Wärmeerzeugung sowie Verfahrens- und Prozessoptimierungen mit Demonstrations- und Pilotcharakter.
<b>Measures</b>	<p><b>1) Entwicklung von Technologien zur effizienten Erzeugung von Wärme aus Biomasse insbesondere durch</b></p> <ul style="list-style-type: none"> <li>– energetische und wirtschaftliche Optimierung von Anlagenkonzepten und beispielgebende neue Pilot- und Demonstrationsvorhaben mit hohem Übertragungspotenzial,</li> <li>– Anpassung der Anlagentechnik an den rückläufigen Wärmebedarf infolge der energetischen Sanierung des Gebäudebestands,</li> <li>– optimale Einbindung der Wärmeerzeugung aus Biomasse in größere Versorgungseinrichtungen und Hybridanlagen</li> </ul> <p>sowie die Ausrichtung im Hinblick auf einen zukünftig klimaneutralen Gebäudebestand,</p> <ul style="list-style-type: none"> <li>– Konzepte zur Prozesswärmeerzeugung.</li> </ul> <p><b>2) Forschung, Entwicklung und Innovation zur effizienten Erzeugung von Strom aus Biomasse und dessen Integration ins Stromsystem u. a. durch</b></p> <ul style="list-style-type: none"> <li>– Optimierung von Anlagenkonzepten und ökonomisch beispielgebende neue Pilot- und Demonstrationsvorhaben mit hohem Übertragungspotenzial (Repowering, Upgrading),</li> <li>– Forschung, Entwicklung und Innovation zur Flexibilisierung von Anlagen im Kontext des zukünftigen Stromsystems, einschließlich Systemdienstleistungen,</li> <li>– Kostenreduktion sowie Brennstoffflexibilisierung an Vergasungsanlagen,</li> <li>– effiziente Kombination mit anderen erneuerbaren Energien im Energiemix.</li> </ul> <p><b>3) Erschließung kostengünstiger Biomasserest- und Abfallstoffe außerhalb der Forst- und Landwirtschaft für die energetische</b></p>

	<p><b>Nutzung im Wärme- und Strombereich durch</b></p> <ul style="list-style-type: none"> <li>– Erschließung von Biomassereststoff- und Abfallpotenzialen einschließlich Klärgas</li> <li>– innovative Verfahren zur energetischen Nutzung dieser Stoffe.</li> </ul> <p><b>4) Entwicklung und Demonstration neuer und fortschrittlicher Technologien zur effizienten Nutzung von Biomasse in Kraft-Wärme-Kopplungs-Anlagen u. a. durch</b></p> <ul style="list-style-type: none"> <li>– Optimierung von Anlagenkonzepten und ökonomisch beispielgebende neue Pilot- und Demonstrationsvorhaben mit hohem Übertragungspotenzial,</li> <li>– Forschung, Entwicklung und Innovation zu Konzepten für die Flexibilisierung von KWK-Prozessen im Kontext des zukünftigen Energiesystems (beispielsweise Power-to-Heat-Anwendungen und Gebäudeeffizienzsteigerungsmaßnahmen).</li> </ul> <p><b>5) Validierung des Marktpotenzials von Forschungsergebnissen durch</b></p> <ul style="list-style-type: none"> <li>– systematische Validierung neuester Forschungsergebnisse, Best Practice-Ansätze sowie Technologiekonzepte im Bereich der Bioenergietechnologien,</li> <li>– Konzepte zur Überwindung von Hemmnissen.</li> </ul> <p><b>6) Studien und Konzepte für die Energieerzeugung aus Biomasse u. a. durch</b></p> <ul style="list-style-type: none"> <li>– Untersuchungen zur Rolle von Bioenergie in zukünftigen Energiemärkten (Strom- und Wärmemarkt),</li> <li>– Untersuchungen zur Rolle der Bioenergie auf dem Weg zu einem zukünftig klimaneutralen Gebäudebestand,</li> <li>– Verbesserung der Datenlage bei der Wärmenutzung.</li> </ul>
<b>Deadline</b>	27.09.2017
<b>Funding volume</b>	
<b>Application procedure (one stage / two stage)</b>	2 stages
<b>Contact Person</b>	Lena Panning Tel: +49-(0)30-20199-3132 E-Mail: l.panning@fz-juelich.de
<b>Link</b>	<a href="https://www.ptj.de/bioenergie">https://www.ptj.de/bioenergie</a>



## Funding Programme “Renewable Resources”

Summary: This program focuses on the identification and development of technologies and systems for bioenergy production and use with the aim to further optimization of the GHG balances in the main applications sectors power, heat and fuels. Another target is to optimize and integrate the bioenergy into regional and national energy (infrastructure) systems (heat, power, transport) with the aim to improve the system stability and the energy efficiency.

Details and conditions (in German language):

<b>Funding Body / Ministry</b>	BMEL Bundesministeriums für Ernährung und Landwirtschaft (Federal Ministry of Food and Agriculture)
<b>Project executing organisation</b>	Fachagentur Nachwachsende Rohstoffe e.V. (FNR)
<b>Programme</b>	Förderprogramm „Nachwachsende Rohstoffe“
<b>Focus / Objectives</b>	<p><b>Energie- und Klimafonds</b></p> <p>Bestimmung und Entwicklung von Technologien und Systemen zur Bioenergiegewinnung und -nutzung mit dem Ziel der weiteren Verbesserung von Treibhausgasbilanzen in den Haupteinsatzgebieten Strom, Wärme und Kraftstoffe</p> <p>Optimierung der Integration der Bioenergie in regionale und überregionale Energie-(infrastruktur-)systeme (Wärme, Strom, Mobilität) mit dem Ziel der Verbesserung der Systemstabilität und der Energieeffizienz</p>
<b>Measures</b>	<p>Fachspezifische Förderthemen sind hierbei insbesondere:</p> <ul style="list-style-type: none"> <li>• Entwicklung, Erprobung und Validierung von innovativen und umweltfreundlichen Konversionsverfahren zur Herstellung und Nutzung von Energieträgern aus land- und forstwirtschaftlicher Biomasse sowie aus Rest- und Abfallstoffen</li> <li>• Verbesserung und Optimierung der Ausgangsbiomasse aus nachwachsenden Rohstoffen (auch durch zielgerichtete Züchtung oder verfahrenstechnische Maßnahmen) für spezifische Konversionsprozesse im Bereich Bioenergie</li> <li>• Entwicklung von innovativen Technologien oder Wertschöpfungsketten zur Erzeugung insbesondere folgender fortschrittlicher Biokraftstoffe, die nicht auf Nahrungsmittelpflanzen angewiesen sind, bis hin zu Prototypen</li> <li>• Entwicklung von Konzepten zur kostenminimalen Errichtung von Standardbiogasanlagen sowie</li> <li>• wissenschaftlicher Austausch über Umwandlung/Konversion nachwachsender Rohstoffe zu Energieträgern mit einem Schwerpunkt auf Technologien zur Biogasgewinnung und –</li> </ul>

	nutzung.
<b>Deadline</b>	-
<b>Application procedure (one stage / two stage)</b>	2 stages
<b>Contact Person</b>	Dr. Petra Schüsseler Tel: +49-(0)3843-6930128 E-Mail: p.schuessler@fnr.de
<b>Link</b>	<a href="http://www.fnr.de/projektfoerderung/">http://www.fnr.de/projektfoerderung/</a>

### 3.3.2 Poland

#### **Call: Support for the generation and distribution of renewable energy**

Summary: Project related to construction or reconstruction of generating units resulting in increased generation of energy from renewable sources together with connection of these sources to the distribution / transmission network. Support will include the construction or reconstruction of wind power units (5 MWe), biomass (5 MWth / MWe), biogas (1 MWe) etc. Project addressed to companies, entrepreneurs.

Details and conditions (in Polish language):

<b>Funding Body / Ministry</b>	Unia Europejska/Europejskie Fundusze Strukturalne i Inwestycyjne/ Ministerstwo Rozwoju
<b>Project executing organisation</b>	Narodowy Fundusz Ochrony Środowiska i Gospodarki Wodnej
<b>Programme</b>	Program Operacyjny Infrastruktura i Środowisko 2014-2020  Oś priorytetowa I Zmniejszenie emisyjności gospodarki Działanie 1.1 Wspieranie wytwarzania i dystrybucji energii pochodzącej ze źródeł odnawialnych Poddziałanie 1.1.1 Wspieranie inwestycji dotyczących wytwarzania energii z odnawialnych źródeł wraz z podłączeniem tych źródeł do sieci dystrybucyjnej/przesyłowej
<b>Focus / Objectives</b>	Realizacja projektów inwestycyjnych dotyczących: budowy lub przebudowy jednostek wytwórczych skutkujących zwiększeniem wytwarzania energii z odnawialnych źródeł wraz z podłączeniem tych źródeł do sieci dystrybucyjnej/ przesyłowej. Elementem projektu będzie przyłącze do sieci elektroenergetycznej lub sieci ciepłowniczej należące do beneficjenta projektu (wytwórcy energii). W szczególności wsparcie będzie obejmować budowę lub przebudowę jednostek wytwarzania energii wykorzystujących energię wiatru (pow. 5 MWe), biomasę (pow. 5 MWth/MWe), biogaz (pow. 1 MWe), wodę (pow. 5 MWe), a także energię promieniowania słonecznego (pow. 2

	MWe/MWth) i energię geotermalną (pow. 2 MWth).
<b>Measures</b>	Efektom poddziałania będzie przyczynienie się do wypełnienia zobowiązań wynikających z tzw. pakietu energetyczno-klimatycznego Unii Europejskiej oraz Strategii Europa 2020.
<b>Deadline</b>	Ogłoszenie konkursu 1.12.2016 Rozpoczęcie naboru 31.12.2016 Zakończenie naboru 01.03.2017
<b>Funding volume</b>	alokacja finansowa na działanie ze środków unijnych (w EUR) wraz z przypisaniem kwot na kategorie regionów 150 000 000
<b>Application procedure (one stage / two stage)</b>	Tryb konkursowy/jednoetapowy
<b>Consortium Conditions</b>	Przedsiębiorcy – wytwórcy energii z odnawialnych źródeł energii
<b>Remarks</b>	Zgodnie z zasadami określonymi w programie pomocowym lub notyfikacji indywidualnej, jednak nie więcej niż 85%, wkład własny zgodny z zasadami udzielania pomocy publicznej
<b>Contact Person</b>	Monika Żółkowska monika.zolkowska@nfosigw.gov.pl telefon: 45-90- 430 Julia Rochala julia.rochala@nfosigw.gov.pl telefon: 45-90-367 Agnieszka Karwat agnieszka.karwat@nfosigw.gov.pl telefon: 45-90-526
<b>Link</b>	<a href="https://www.nfosigw.gov.pl/nabor-wnioskow/art,193,informacja-o-trwajacych-naborach-wnioskow-ogloszonych-w-roku-2016.html">https://www.nfosigw.gov.pl/nabor-wnioskow/art,193,informacja-o-trwajacych-naborach-wnioskow-ogloszonych-w-roku-2016.html</a>  <a href="#">POIS.01.01.01-IW.03-00-001/16</a>

### Call: Support for R & D activity in companies, “Fast track”

Summary: The support is intended for both small and medium-sized companies. Funded projects include industrial research and development or development work only. The condition for receiving funding is the commercialization of R & D results, implementation of project results in the trader's own business or the licensing, sale of project results for the purpose of their introduction into the business of another entrepreneur. Project addressed to companies, companies consortium with the participation of the research organization, universities.

Details and conditions (in Polish language):

<b>Funding Body /</b>	Unia Europejska/Europejskie Fundusze Rozwoju Regionalnego/
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<b>Ministry</b>	Ministerstwo Rozwoju
<b>Project executing organisation</b>	Narodowe Centrum Badań i Rozwoju
<b>Programme</b>	Program Operacyjny Inteligentny Rozwój 2014-2020  Oś priorytetowa I. Wsparcie prowadzenia prac B+R przez przedsiębiorstwa Działanie 1.1. Projekty B+R przedsiębiorstw Poddziałanie 1.1.1 - Badania przemysłowe i prace rozwojowe realizowane przez przedsiębiorstwa
<b>Focus / Objectives</b>	Wsparcie jest przeznaczone zarówno do małych i średnich jak i do dużych przedsiębiorców, przy czym możliwe jest organizowanie naborów dedykowanych wyłącznie jednej z ww. grup firm. Finansowane projekty obejmują badania przemysłowe i prace rozwojowe lub wyłącznie prace rozwojowe.  Wsparcie kierowane jest na projekty wpisujące się w Krajową Inteligentną Specjalizację, w tym nowe specjalizacje wynikające z procesu przedsiębiorczego odkrywania.  W poddziałaniu 1.1.1. dofinansowanie udzielane jest na realizację projektów które obejmują badania przemysłowe i prace rozwojowe albo prace rozwojowe (projekty, w których nie przewidziano prac rozwojowych nie mogą uzyskać dofinansowania).
<b>Measures</b>	Warunkiem otrzymania dofinansowania jest komercjalizacja wyników prac B+R, rozumiana jako wdrożenie wyników projektu we własnej działalności gospodarczej przedsiębiorcy lub udzielenie licencji lub sprzedaż wyników projektu w celu ich wprowadzania do działalności gospodarczej innego przedsiębiorcy.
<b>Deadline</b>	1. Rozpoczęcie naboru 1 03 2017 Zakończenie naboru 30 06 2017 2. Rozpoczęcie naboru 09 2017 Zakończenie naboru 12 2017
<b>Funding volume</b>	1. 1 000 mln zł 2. 1 000 mln zł
<b>Application procedure (one stage / two stage)</b>	1. KONkurs podzielony na miesięczne etapy 2. KONkurs podzielony na etapy
<b>Consortium Conditions</b>	Udział przedsiębiorstw
<b>Remarks</b>	Konkurs przeznaczony dla MSP beneficjent może powierzyć realizację części prac B+R w projekcie podwykonawcy.
<b>Contact Person</b>	

<b>Link</b>	<a href="http://www.ncbr.gov.pl/fundusze-europejskie/poir/aktualnosci/">http://www.ncbr.gov.pl/fundusze-europejskie/poir/aktualnosci/</a>
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### Call: Support for R & D activity in companies, “Fast track”

Summary: The support is intended large companies. Funded projects include industrial research and development or development work only. The condition for receiving funding is the commercialization of R & D results, implementation of project results in the trader's own business or the licensing, sale of project results for the purpose of their introduction into the business of another entrepreneur. Project addressed to companies with the participation of the research organization, universities.

Details and conditions (in Polish language):

<b>Funding Body / Ministry</b>	Unia Europejska/Europejskie Fundusze Rozowju Regionalnego/ Ministerstwo Rozwoju
<b>Project executing organisation</b>	Narodowe Centrum Badań i Rozwoju
<b>Programme</b>	Program Operacyjny Inteligentny Rozwój 2014-2020  Oś priorytetowa I. Wsparcie prowadzenia prac B+R przez przedsiębiorstwa Działanie 1.1. Projekty B+R przedsiębiorstw Poddziałanie 1.1.1 - Badania przemysłowe i prace rozwojowe realizowane przez przedsiębiorstwa
<b>Focus / Objectives</b>	Wsparcie jest przeznaczone zarówno do małych i średnich jak i do dużych przedsiębiorców, przy czym możliwe jest organizowanie naborów dedykowanych wyłącznie jednej z ww. grup firm. Finansowane projekty obejmują badania przemysłowe i prace rozwojowe lub wyłącznie prace rozwojowe.  Wsparcie kierowane jest na projekty wpisujące się w Krajową Inteligentną Specjalizację, w tym nowe specjalizacje wynikające z procesu przedsiębiorczego odkrywania.  W poddziałaniu 1.1.1. dofinansowanie udzielane jest na realizację projektów które obejmują badania przemysłowe i prace rozwojowe albo prace rozwojowe (projekty, w których nie przewidziano prac rozwojowych nie mogą uzyskać dofinansowania).
<b>Measures</b>	Warunkiem otrzymania dofinansowania jest komercjalizacja wyników prac B+R, rozumiana jako wdrożenie wyników projektu we własnej działalności gospodarczej przedsiębiorcy lub udzielenie licencji lub sprzedaż wyników projektu w celu ich wprowadzania do działalności gospodarczej innego przedsiębiorcy.
<b>Deadline</b>	1. Rozpoczęcie naboru 1 03 2017

	Zakończenie naboru 30 06 2017 2. Rozpoczęcie naboru 09 2017 Zakończenie naboru 12 2017
<b>Funding volume</b>	1. 400 mln zł 2. 350 mln
<b>Application procedure (one stage / two stage)</b>	1. KONkurs podzielony na miesięczne etapy 2. KONkurs podzielony na etapy
<b>Consortium Conditions</b>	Udział przedsiębiorstw
<b>Remarks</b>	Konkurs przeznaczony dla dużych przedsiębiorców beneficjent może powierzyć realizację części prac B+R w projekcie podwykonawcy.
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.ncbr.gov.pl/fundusze-europejskie/poir/aktualnosci/">http://www.ncbr.gov.pl/fundusze-europejskie/poir/aktualnosci/</a>

### Call: Applied Research Programme/support the science sector by industry

Summary: Applied Research Programme of the National Centre for Research and Development is a horizontal programme aimed at supporting the science sector and the industry sector within the scope of applied research in various scientific fields (programme path A) and industry branches (programme path B). The programme will be implemented on the basis of competitions for co-financing of applied research projects. Applied research, is defined as research work conducted in order to gain new knowledge with specific practical application. It consists either in searching for possible practical uses for research results or in searching for new solutions allowing to meet the assumed practical targets. Projects are addressed to companies and companies consortium with the participation of the research organization and universities.

Details and conditions (in Polish language):

<b>Funding Body / Ministry</b>	Unia Europejska/Europejskie Fundusze Rozwoju Regionalnego/ Ministerstwo Rozwoju
<b>Project executing organisation</b>	Narodowe Centrum Badań i Rozwoju
<b>Programme</b>	Program Operacyjny Inteligentny Rozwój 2014-2020  Oś priorytetowa I. Wsparcie prowadzenia prac B+R przez przedsiębiorstwa Działanie 1.2. Sektorowe programy B+R
<b>Focus / Objectives</b>	Programy sektorowe służą realizacji dużych przedsięwzięć B+R, istotnych dla rozwoju poszczególnych branż/sektorów gospodarki. W programach sektorowych inicjatorem wspólnego przedsięwzięcia jest grupa przedsiębiorstw, które występują w imieniu branży (np. za

	pośrednictwem platformy technologicznej, inicjatywy klastrowej, etc.), przedstawiając zarys agendy badawczej wraz z konkretnym zapotrzebowaniem sektora na prace B+R.
<b>Measures</b>	Dofinansowanie udzielane jest na realizację projektów które obejmują badania przemysłowe i prace rozwojowe lub prace rozwojowe. Wsparcie kierowane jest na projekty wpisujące się w Krajową Inteligentną Specjalizację, w tym nowe specjalizacje wynikające z procesu przedsiębiorczego odkrywania.
<b>Deadline</b>	III/IV kwartał 2017
<b>Funding volume</b>	120 mln zł
<b>Application procedure (one stage / two stage)</b>	Brak informacji
<b>Consortium Conditions</b>	1) przedsiębiorcy (przedsiębiorstwa) w rozumieniu art. 1 Załącznika I do rozporządzenia Komisji (UE) nr 651/2014 r. uznającego niektóre rodzaje pomocy za zgodne z rynkiem wewnętrznym w zastosowaniu art. 107 i 108 Traktatu (rozporządzenie 651/2014) albo 2) konsorcja przedsiębiorstw (składające się wyłącznie z przedsiębiorców) – w których skład wchodzi co najmniej dwóch przedsiębiorców w rozumieniu art. 1 Załącznika I do rozporządzenia 651/2014.
<b>Remarks</b>	
<b>Contact Person</b>	<ul style="list-style-type: none"> <li>w zakresie finansowym (kwalifikowalność kosztów, wskaźniki, budżet projektu) na adres e-mail: <a href="mailto:pbse-finanse@ncbr.gov.pl">pbse-finanse@ncbr.gov.pl</a>,</li> <li>w zakresie ogólnym (w pozostałych sprawach, innych niż finansowe) na adres e-mail: <a href="mailto:pbse@ncbr.gov.pl">pbse@ncbr.gov.pl</a> oraz pod numerami telefonów: + 48 22 39 07 267, + 48 22 39 07 448.</li> </ul>
<b>Link</b>	<a href="http://www.ncbr.gov.pl/fundusze-europejskie/poir/konkursy/konkurs8122016pbse/">http://www.ncbr.gov.pl/fundusze-europejskie/poir/konkursy/konkurs8122016pbse/</a>

### Call: Support R and D activity in companies/ Vouchers for innovation for SMEs

Summary: Projects related to the purchase of a service consisting of the development of a new or significantly improved product, new or significantly improved production technology, a new design project; new or significantly improved service. Projects are addressed to companies with the participation of the research organization.

Details and conditions (in Polish language):

<b>Funding Body / Ministry</b>	Unia Europejska/Europejskie Fundusze Rozwoju Regionalnego/ Ministerstwo Rozwoju
<b>Project executing</b>	Polska Agencja Rozwoju Przedsiębiorczości

<b>organisation</b>	
<b>Programme</b>	Program Operacyjny Inteligentny Rozwój 2014-2020  Oś priorytetowa I. Wsparcie prowadzenia prac B+R przez przedsiębiorstwa Działanie 2.3. Proinnowacyjne usługi dla przedsiębiorstw Poddziałanie 2.3.2. Bony na innowacje dla MSP
<b>Focus / Objectives</b>	projekty dofinansowane w ramach działania – związane z zakupem usługi polegającej na opracowaniu: nowego lub znacząco ulepszanego wyrobu, nowej lub znacząco ulepszonej technologii produkcji, nowego projektu wzorniczego; nowej lub znacząco ulepszonej usługi.
<b>Measures</b>	
<b>Deadline</b>	8 06 2017 – 02 2018
<b>Funding volume</b>	65 mln zł
<b>Application procedure (one stage / two stage)</b>	Konkurs podzielony na etapy
<b>Consortium Conditions</b>	Z działania mogą skorzystać – mikro, mali i średni przedsiębiorcy
<b>Remarks</b>	Wykonawcą usług, mogą być jednostki naukowe Poziom dofinansowania: do 70% dla średnich przedsiębiorców oraz do 80% dla mikro i małych przedsiębiorców. Wartość wydatków kwalifikowanych w ramach projektu - Minimalna kwota wydatków kwalifikowanych na jeden projekt to 60 000 zł, zaś maksymalna kwota wydatków kwalifikowanych na jeden projekt to 400 000 zł.
<b>Contact Person</b>	
<b>Link</b>	<a href="http://poir.parp.gov.pl/harmonogram-naboru-wnioskow-poir/terminy-naborow-dla-programu-operacyjnego-inteligentny-rozwoj">http://poir.parp.gov.pl/harmonogram-naboru-wnioskow-poir/terminy-naborow-dla-programu-operacyjnego-inteligentny-rozwoj</a>

### 3.3.3 Sweden

#### Call: General application with energy relevance

Summary: This is an open application venue at the Swedish Energy Agency for projects with topics that does not fit into any particular program. For the moment most biogas related project applications are directed here. Projects need to show high energy relevance, high potential impact on reducing greenhouse gas emissions and contribute positively to improved recycling of resources in society as well as stimulating growth of companies (i.e. creates jobs). If the proposal meets the above stated criteria and has attracted significant (>35 %) industry funding (cash or in-kind) chances are good that the project will receive funding.

Details and conditions (in Swedish language):



<b>Funding Body / Ministry</b>	Energimyndigheten
<b>Project executing organisation</b>	Energimyndigheten
<b>Programme</b>	Enskilt projekt
<b>Focus / Objectives</b>	Projekt med hög energirelevans som bidrar till uppfyllande av de Svenska miljömålen. Biogasprojekt hänvisas för närvarande oftast hit då det för tillfället inte finns något specifikt program för biogasprojekt.
<b>Measures</b>	
<b>Deadline</b>	Ingen deadline
<b>Funding volume</b>	Ingen specifik budget. Bra projekt som uppfyller generella kriterier finansieras i mån av tillgänglig budget.
<b>Application procedure (one stage / two stage)</b>	Ett steg genom ansökan via e-kanalen <a href="https://www1.stem.se/ekanal/">https://www1.stem.se/ekanal/</a>
<b>Consortium Conditions</b>	Beslut fattas enligt stadsstödsreglerna. Stödnivån för projektdeltagande kan uppgå till 100%, 50% och 20% för bidragsberättigade kostnader beroende på om projektet klassas som grundforskning, tillämpad forskning eller industriell utveckling. Stödnivån kan öka om mottagaren är ett SME.
<b>Remarks</b>	
<b>Contact Person</b>	Kalle Svensson <a href="mailto:Kalle.Svensson@energimyndigheten.se">Kalle.Svensson@energimyndigheten.se</a>
<b>Link</b>	<a href="http://www.energimyndigheten.se/forskning-och-innovation/forskning/soka-stod-och-rapportera/">http://www.energimyndigheten.se/forskning-och-innovation/forskning/soka-stod-och-rapportera/</a>

### Call: Capital grant program for construction of on-farm biogas plants

Summary: Capital grant funding scheme run by the Swedish Board of Agriculture. Applicants can receive up to 40% grant for eligible costs (hardware and consulting services directly related to construction of the plant). Call is open (no specific deadlines) and the duration of the program is until further notice.

Details and conditions (in Swedish language):

<b>Funding Body / Ministry</b>	Jordbruksverket
<b>Project executing organisation</b>	Jordbruksverket
<b>Programme</b>	Investeringsstöd till biogas
<b>Focus / Objectives</b>	Du kan få stöd om du vill bygga en anläggning för produktion och användning av gödselbaserad biogas, uppgraderingsanläggning eller bygga en anläggning för rötresthantering. Syftet med stödet är att öka tillgången till och användningen av förnybar energi.
<b>Measures</b>	
<b>Deadline</b>	Ingen deadline

<b>Funding volume</b>	Ingen publicerad
<b>Application procedure (one stage / two stage)</b>	Ett steg via elektronisk ansökningsfunktion
<b>Consortium Conditions</b>	40% av stödberättigad investering
<b>Remarks</b>	
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.jordbruksverket.se/amnesomraden/stod/stodilandsbygdsprogrammet/investeringar/biogas.4.6ae223614dda2c3dbc44f95.html">http://www.jordbruksverket.se/amnesomraden/stod/stodilandsbygdsprogrammet/investeringar/biogas.4.6ae223614dda2c3dbc44f95.html</a>

### Call: Climate Leap

Summary: Capital grant scheme where cities, municipalities, regions or private enterprises can apply to cover part of eligible cost. Rate of grate varies with the projects and is based on reasonably calculated GHG reduction efficiency. Three application deadlines per year. The grant system is competitive, which means that all applications collected before a deadline will be evaluated and compared. The application that achieves the highest GHG reduction per requested grant amount gets the funding provided that some basic program criteria is met. So far biogas related projects have been the most successful project type to be awarded grants through this program.

Details and conditions (in Swedish language):

<b>Funding Body / Ministry</b>	Naturvårdsverket
<b>Project executing organisation</b>	Naturvårdsverket
<b>Programme</b>	Stöd till lokala och regionala klimatinvesteringar (Klimat Klivet)
<b>Focus / Objectives</b>	Pengar från Klimatlivet ska gå till klimatinvesteringar på lokal nivå, exempelvis i en stad eller en kommun, på ett företag, i en skola eller i ett län. De investerade medlen ska ha som huvudsakliga syfte att minska växthusgasutsläppen. Även spridning och marknadsintroduktion av ny teknik och påverkan på andra miljökvalitetsmål, hälsa och sysselsättning är önskade effekter.
<b>Measures</b>	
<b>Deadline</b>	<ul style="list-style-type: none"> <li>•10 mars kl 09.00 - 3 april 2017 kl 17.00 Beslut planeras till juni.</li> <li>•7 augusti kl 09.00 - 9 september 2017 kl 17.00 Beslut planeras till november.</li> <li>•November 2017, datum inte satta ännu Beslut planeras i början av år 2018</li> </ul>
<b>Funding volume</b>	700M SEK
<b>Application procedure (one</b>	Ett steg via Naturvårdsverkets webbformulär för Klimatklivet som är öppet under ansökningsperioderna ovan

<b>stage / two stage)</b>	
<b>Consortium Conditions</b>	Alla utom privatpersoner och enkla bolag kan ansöka
<b>Remarks</b>	
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.naturvardsverket.se/klimatklivet">http://www.naturvardsverket.se/klimatklivet</a>

### Call: EIP Agri Sweden (European Innovation Partnership)

Summary: In Sweden EU funding within the EIP Agri program is managed by the Swedish Board of Agriculture. It is a support program for innovation groups, preferably from various parts of a value chain to come together and implement a common innovation project. Focus is on innovation that drives rural and food system innovations as well as rural employment. Up to 100% of eligible costs can be supported from the program but significant financial contributions from industrial partners is highly valued in the evaluation process as it prov commitment by the partners.

Details and conditions (in Swedish language):

<b>Funding Body / Ministry</b>	Jordbruksverket
<b>Project executing organisation</b>	Jordbruksverket
<b>Programme</b>	Innovationer i jordbruk, trädgård och rennäring, EIP
<b>Focus / Objectives</b>	Stöd för att genomföra ett innovationsprojekt finns för att du som har en innovationsidé ska få möjlighet att arbeta för att förverkliga din idé tillsammans med innovationsgruppen.
<b>Measures</b>	
<b>Deadline</b>	Ingen deadline
<b>Funding volume</b>	Ingen publicerad
<b>Application procedure (one stage / two stage)</b>	Två steg: Ansökan om stöd för att bilda en innovationsgrupp; ansökan om stöd för att genomföra ett innovationsprojekt <a href="http://www.jordbruksverket.se/etjanster/etjanster/stod/foretagsochprojektstod.4.37e9ac46144f41921cd21af6.html">http://www.jordbruksverket.se/etjanster/etjanster/stod/foretagsochprojektstod.4.37e9ac46144f41921cd21af6.html</a>
<b>Consortium Conditions</b>	Du kan få upp till 100 procent i stöd för lönekostnader för de personer som ingår i innovationsgruppen samt övriga utgifter som tester, resor och vissa köpta tjänster. För investeringar kan du få upp till 50 procent i stöd. Den innovationsgrupp som söker stöd för att genomföra ett innovationsprojekt ska utgöras av minst två aktörer med minst två av kompetenserna företagare (oavsett företagsform), forskare eller rådgivare.
<b>Remarks</b>	
<b>Contact Person</b>	Mats Gustafsson mats.gustafsson@innovationssupporten.se

<b>Link</b>	<a href="http://www.jordbruksverket.se/arnesomraden/stod/stodilandsbygdsprogrammet/innovationereip.4.6ae223614dda2c3dbc459fb.html">http://www.jordbruksverket.se/arnesomraden/stod/stodilandsbygdsprogrammet/innovationereip.4.6ae223614dda2c3dbc459fb.html</a>
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### 3.3.4 Austria

#### Programme “Energy Climate Program Austria 2017”

Summary: This programme contributes to the provision of secure, sustainable and affordable energy and mobility solutions. The programme bears the entire value chain, from functionality to primary energy. There are 5 topics (oriented fundamental research, energy systems and grids, industrial energy systems, transport and mobility systems and transmit and storage technologies.)

Details and conditions (in German language):

<b>Funding Body / Ministry</b>	FFG - Die Österreichische Forschungsförderungsgesellschaft.
<b>Project executing organisation</b>	Klima- und Energiefonds
<b>Programme</b>	Energieforschungsprogramm AS 2017
<b>Focus / Objectives</b>	Das „Energieforschungsprogramm“ des Klima- und Energiefonds trägt zur Bereitstellung sicherer, nachhaltiger und leistbarer Energie- und Mobilitätslösungen bei. Das Programm bezieht sich auf die gesamte energetische Wertschöpfungskette, von der Funktionalität bis zur Primärenergie. Unterstützt wird die gezielte (Weiter-)Entwicklung von Technologien und Komponenten sowie deren Integration in das Energiesystem.
<b>Measures</b>	Themenfelder: TF1 Orientierte Grundlagenforschung TF2 Energiesysteme und -netze TF3 Industrielle Energiesysteme TF4 Verkehrs- und Mobilitätssystem TF5 Umwandlungs- und Speichertechnologien
<b>Deadline</b>	20.09.2017 (Forschungsförderung von maximal 2 MEUR)
<b>Funding volume</b>	16 M€
<b>Consortium Conditions</b>	Zielgruppe: Unternehmen (KMU, GU), Forschungseinrichtungen
<b>Contact Person</b>	Für strategische Fragestellungen: Klima- und Energiefonds Mag. Elvira Lutter Tel. (+43 1) 585 03 90-31  Förderberatung:

	FFG-Österreichische Forschungsförderungsgesellschaft mbH DI Gertrud Aichberger Tel. (+43 0)5 7755-5043
<b>Link</b>	<a href="https://www.klimafonds.gv.at/foerderungen/aktuelle-foerderungen/2017/energieforschungsprogramm-as-2017/">https://www.klimafonds.gv.at/foerderungen/aktuelle-foerderungen/2017/energieforschungsprogramm-as-2017/</a>

### 3.3.5 Czech Republic

#### Call Programme: Renewable energy challenge

Summary: Project related to construction, reconstruction of heat sources and combined production of electricity and heat. This call is dedicated mostly to the entrepreneurs and biogas stations.

Details and conditions (in national language):

<b>Funding Body / Ministry</b>	Ministerstvo průmyslu a obchodu/ strukturální-fondy
<b>Project executing organisation</b>	Ministerstvo průmyslu a obchodu
<b>Programme</b>	Operační program Podnikání a inovace pro konkurenceschopnost II. Výzva Obnovitelné zdroje energie Prioritní osa / priorita Unie PO3 Investiční priorita1/ prioritní oblast / specifický cíl (ENRF) 4a Specifický cíl 3.1
<b>Focus / Objectives</b>	Vybudování, rekonstrukce MVE, vyvedení tepla ze stávajících BS, výstavba a rekonstrukci zdrojů tepla a kombinované výroby elektřiny a tepla z biomasy a vyvedení tepla.
<b>Measures</b>	Podnikatelské subjekty, Bioplynové stanice; CEF
<b>Deadline</b>	04 2017
<b>Funding volume</b>	800 000 000
<b>Application procedure (one stage / two stage)</b>	
<b>Consortium Conditions</b>	
<b>Remarks</b>	MSP, VP
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.strukturalni-fondy.cz/cs/Fondy-EU/2014-2020/Operacni-programy/OP-Podnikani-a-inovace-pro-konkurenceschopnost">http://www.strukturalni-fondy.cz/cs/Fondy-EU/2014-2020/Operacni-programy/OP-Podnikani-a-inovace-pro-konkurenceschopnost</a>

**Call: Increase the share of material and energy recovery of waste**

Summary: Funding for projects with the renewable energy resources activity, support in reducing environmental risks will be the development of innovative and information technologies, the implementation technologies with higher operational safety, the development of a comprehensive system for the assessment and reduction of chemical risks.

Objective is the preservation and protection of the environment and promotion of resource efficiency by investing in waste management.

Details and conditions (in national language):

<b>Funding Body / Ministry</b>	Ministerstvo životního prostředí/ strukturální-fondy
<b>Project executing organisation</b>	Ministerstvo životního prostředí
<b>Programme</b>	Operačního programu Životní prostředí 2014 - 2020  Prioritní osa / priorita Unie P3  Investiční priorita/ Zachování a ochrana životního prostředí a podporování účinného využívání zdrojů investicemi do odpadového hospodářství s cílem plnit požadavky acquis Unie v oblasti životního prostředí a řešením potřeb investic, které podle zjištění členských států přesahují rámec těchto požadavků  Specifický cíl 3.2 Zvýšit podíl materiálového a energetického využití odpadů
<b>Focus / Objectives</b>	
<b>Measures</b>	
<b>Deadline</b>	12 2017
<b>Funding volume</b>	Z toho příspěvek Unie 800 000 000 Z toho národní spolufinancování * 141 176 471
<b>Application procedure (one stage / two stage)</b>	kolová (soutěžní)
<b>Consortium Conditions</b>	
<b>Remarks</b>	kraje, města a obce, města a pověřené obce, původci odpadu, podnikatelské subjekty
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.strukturalni-fondy.cz/cs/Fondy-EU/2014-2020/Operacni-programy/OP-Zivotni-prostredi">http://www.strukturalni-fondy.cz/cs/Fondy-EU/2014-2020/Operacni-programy/OP-Zivotni-prostredi</a>

### 3.3.6 Slovakia

#### Call: Energy-efficient low-carbon economy in all sectors/ Increase of RES share on gross final energy consumption

Summary: Project for activity related to construction of facilities for production of biomethane; production and energy use of biogas, landfill gas and gas from sewage treatment plants. Call dedicated to companies, business associations, non-profit organizations providing services of general interest. Project founded by European Union under one of the operational program.

Details and conditions (in national language):

<b>Funding Body / Ministry</b>	Ministerstvo životného prostredia Slovenskej Republiky/ european union
<b>Project executing organisation</b>	SO pre OP KŽP – Slovenská inovačná a energetická agentúra
<b>Programme</b>	Operačný program Kvalita životného prostredia  Prioritná os 4. Energeticky efektívne nízkouhlíkové hospodárstvo vo všetkých sektoroch Špecifický cieľ 4.1.1 Zvýšenie podielu OZE na hrubej konečnej energetickej spotrebe SR
<b>Focus / Objectives</b>	Oprávnená aktivita B: Výstavba zariadení na: <input type="checkbox"/> výrobu biometánu; <input type="checkbox"/> využitie vodnej energie; <input type="checkbox"/> využitie aerotermálnej, hydrotermálnej alebo geotermálnej energie s použitím tepelného čerpadla; <input type="checkbox"/> využitie geotermálnej energie priamym využitím na výrobu tepla a prípadne aj v kombinácii s tepelným čerpadlom; <input type="checkbox"/> výrobu a energetické využívanie bioplynu, skládkového plynu a plynu z čistiarní odpadových vôd
<b>Measures</b>	
<b>Deadline</b>	08 2017do vyčerpania alokácie
<b>Funding volume</b>	19 156 500
<b>Application procedure (one stage / two stage)</b>	
<b>Consortium Conditions</b>	
<b>Remarks</b>	fyzické a/alebo právnické osoby oprávnené na podnikanie - združenia fyzických alebo právnických osôb - subjekty ústrednej správy - subjekty územnej samosprávy - neziskové organizácie poskytujúce všeobecne prospešné služby
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.op-kzp.sk/obsah-vyzvy/harmonogram-vyziev/">http://www.op-kzp.sk/obsah-vyzvy/harmonogram-vyziev/</a>

### 3.3.7 Latvia

The State Education Development Agency field of activity is broad and diverse: the Agency enforces the national policy in implementing the European Union (EU) Structural Funds, lifelong learning, foreign scholarships and cooperation programmes, financial instruments and grant schemes of the European Economic Area Member States in the fields of education, science and research, as well as in professional guidance, by offering advisory support and a broad spectrum of information concerning the education sector development opportunities in Latvia and Europe <http://viaa.gov.lv/lat/>

International support instruments for initial biogas project financing are available from European Union (EU) Structural Funds and programmes and the European Economic Area (EEA) Financial Mechanism, and EEA Norwegian Financial Mechanism (Norway Grants).

Financing for biogas projects is possible within the framework of Climate Change Financial Instrument (CCFI) or internationally known as Green Investment Scheme.

CCFI is a programme of State Budget.

Currently there are no open national calls.

### 3.3.8 Lithuania

Research Council of Lithuania has been founded 1991 to fulfil the role of an expert institution tackling challenges of science development on a national level. The Council is a counsellor of the Lithuanian Parliament and the Government on research and researchers training issues, implements programme based competitive funding of research, administers most important Lithuanian science development programmes, evaluates research performance and represents Lithuanian science in various European institutions and other international organisations.

Currently there are no open national calls.

### 3.3.9 Estonia

Institutional research funding is support allocated for financing high-level research and development, and related activities (research themes) of an institution involved with the aforementioned activities. The aim is to ensure the consistency of the research and development of an R&D institution, and to upgrade, supplement and maintain the infrastructure necessary for this purpose

Currently there are no open national calls.

### 3.3.10 Ukraine

The state financing of Ukrainian scientific and research institutions is very poor. Currently there are no open national calls.



### 3.3.11 Romania

Grants provided by the European Union by its structural and rural development funds (EAFRD) are an attractive alternative means of financing biomass and biogas projects. European Grants for Biomass and Biogas Projects in Romania 2014-2020.

Operational Program Competitiveness – source for Upgrade existing R & D infrastructure and creation of new infrastructures (including bioenergy) and National Rural Development Program - Activities producing biofuels from biomass

### 3.3.12 Hungary

<b>Funding Body / Ministry</b>	National Research, Development and Innovation Office
<b>Project executing organisation</b>	
<b>Programme</b>	EUREKA programme
<b>Focus / Objectives</b>	The purpose of this scheme is to foster the participation of Hungarian undertakings in the EUREKA programme, which facilitates the international R&D cooperation of undertakings, in particular small and medium-sized enterprises, and thereby: to increase the marketability of Hungarian enterprises, to strengthen Hungarian participation on an international level, to foster the R&D cooperation between research and the business world by supporting close-to-the-market projects, whereby prototypes or new products, technologies or services are developed, to promote the Hungarian utilisation of participation in international R&D projects
<b>Measures</b>	Only those applicants are eligible to submit Hungarian applications that are listed as partners/consortium leaders in the English language EUREKA project proposal or approved project submitted by an international consortium into the database of the EUREKA Secretariat or the EUREKA cluster register. This fact shall be evidenced by the Hungarian EUREKA National Project Coordinator. The Hungarian partners participating in the same international EUREKA project shall apply for the Hungarian funding by forming a consortium. The following entities are eligible to submit applications: business associations seated in Hungary or the Hungarian branches of undertakings having a seat in an EEA country non-profit organisations, budgetary organisations or their institutions without legal personality that are not performing any market influencing activities.

	Eligible for individual funding: research and development. Not eligible for individual funding on project level: applied research, activities related to the communication, coordination, market access, industrial property rights of the project, activities related to participation in conferences, general costs (overhead expenses).
<b>Deadline</b>	31 March 2017
<b>Funding volume</b>	HUF 400 million
<b>Application procedure (one stage / two stage)</b>	
<b>Consortium Conditions</b>	
<b>Remarks</b>	The Call published by the National Research, Development and Innovation Office aims to support the participation of Hungarian institutions in the international collaborative EUREKA projects by providing the necessary Hungarian funds.
<b>Contact Person</b>	
<b>Link</b>	<a href="http://nkfih.gov.hu/funding/calls-of-the-national/support-to-hungarian">http://nkfih.gov.hu/funding/calls-of-the-national/support-to-hungarian</a>

<b>Funding Body / Ministry</b>	Nemzetgazdasági Minisztérium/ Structural Funds
<b>Project executing organisation</b>	
<b>Programme</b>	Competitive Central Hungary Operative Programme (CCHOP), for applicants in developed Central Hungary region
<b>Focus / Objectives</b>	In line with the priorities determined by the European Union, the action focuses on strengthening R&D infrastructure and capacities in order to develop research and innovation excellence, in particular to support competence centres on a European level. The action related to that specific objective intends to implement focused development of outstanding research entities (research and knowledge dissemination organization) to reach international standards.
<b>Measures</b>	Supported projects should be in line with the selected national priorities of the National S3 Strategy, should be based on a genuine idea and should have a realistic financial plan. The following activities are eligible for funding in the programme: Research activities Procurement of material and immaterial assets related to research activities Project preparation and project management, other services related to the project and the publicity thereof
<b>Deadline</b>	The deadline for submission of applications is 27 August 2018 as long as available funds last.
<b>Funding volume</b>	Available total budget for the period of 2015-16 is HUF 4 billion (EUR)

	12.7 million), grants per project may vary between HUF 0.2 billion and 0.8 billion.
<b>Application procedure (one stage / two stage)</b>	
<b>Consortium Conditions</b>	Applicants can apply individually or via a consortium (up to 4 members). Only publicly financed and non-profit research units are eligible to apply.
<b>Remarks</b>	
<b>Contact Person</b>	
<b>Link</b>	<a href="http://nkfih.gov.hu/funding/calls-financed-from-eu/european-funds-now">http://nkfih.gov.hu/funding/calls-financed-from-eu/european-funds-now</a>

### 3.3.13 Belarus

In addition to participating in the R&D programs, there is a possibility of receiving funding for the implementation of individual projects from several funds;

- the Belarusian Republican Foundation for Fundamental Research supports fundamental research projects in engineering, natural and other sciences, including those performed in collaboration with researchers from foreign countries. It provides grants for experienced and young scientists
- The Belarusian Innovation Fund which provides budgetary funds on a repayable basis for implementation of innovation projects and for setting up production at quite favorable conditions has a visible role in supporting close-to-market science-intensive projects

Currently there are no open calls.

### 3.3.14 Moldova

The Moldovan Sustainable Energy Financing Facility provides a unique opportunity to realise your energy savings potential! It provides not only loan financing and grants for your project, but also technical assistance by international experts who will help you to optimise your project so that your ideas are turned into reality. <http://www.moseff.org/index.php?id=1&L=1>

Currently there are no open calls.

## 3.4 EU Calls

### 3.4.1 Eurostars 2

<b>Frame Programme</b>	EUREKA
<b>Programme</b>	Eurostars2

<b>Funding Body (e.g. EC or national funding synergies)</b>	National funding bodies in the participating countries
<b>Focus / Objectives</b>	<p>Eurostars is a joint initiative between EUREKA and the European Commission specifically dedicated to R&amp;D performing SMEs.</p> <p>The objective of the Eurostars Programme is to bring increased value to the economy, higher growth and more job opportunities by supporting the R&amp;D-performing SME. The programme supports market-oriented R &amp; D projects with partners from at least two member countries. The Eurostars Programme specifically enables R&amp;D-performing SMEs to improve performance through its support of 'in-house' research; it also enables companies to develop closer working relationships with the European research community.</p>
<b>Measures</b>	Eurostars takes a 'bottom-up' approach to project generation. Projects can address any technological area and should be aimed at the development of a new product, process or service. The leaders of Eurostars projects are growth-seeking SMEs that invest at least 10 percent of turnover or human resources to R&D. Companies are responsible for at least 50 percent of the project costs. The maximum project duration is three years and results are expected to enter markets in two years after the project is completed.
<b>Deadline</b>	7th call – 2 March 2017 8 call – 14 September 2017
<b>Funding volume</b>	Contacting your National Office, who can guide you through the application process and advise you on the national funding rules and procedures.
<b>Application procedure (one stage / two stage)</b>	Two stage
<b>Consortium Conditions</b>	The consortium must include at least two partners independent from each other and established in at least two different Eurostars countries. Organisations from any other country may participate (as a third country), but only if two Eurostars countries are already in the project. Subcontractors are not considered as project partners.
<b>Remarks</b>	Research-performing SMEs can apply for funding under Eurostars. Other SMEs, research institutes, universities and large enterprises may also participate but the project leader must be an R&D-performing SME from a Eurostars country.
<b>Contact Person</b>	
<b>Link</b>	<a href="http://www.eurostars-eureka.eu/">http://www.eurostars-eureka.eu/</a>

## 3.4.2 ERA-Net Cofund on Biotechnologies ERA CoBioTech

<b>Frame Programme</b>	<b>ERA CoBioTech (ERA-Net Cofund on Biotechnologies)</b>
<b>Programme</b>	<b>1st Joint Call for Proposals ERA CoBioTech (ERA-Net Cofund on Biotechnologies)</b>
<b>Funding Body (e.g. EC or national funding synergies)</b>	National funding bodies in the participating countries
<b>Focus / Objectives</b>	<p>The submitted proposals must be multidisciplinary and include <b>at least one</b> of the following scientific approaches:</p> <ul style="list-style-type: none"> <li>• <b>Synthetic biology</b> for the design and construction of new biological parts, devices, and systems, or re-design of existing, natural biological systems for useful purposes by use of e.g. (but not limited to) orthogonal bio-systems, regulatory circuits, minimal genome approaches and protocells.</li> <li>• <b>Systems biology</b> for optimisation of biological processes, including investigation of regulatory mechanisms in intra- and intercellular processes for bio-production, modelling, development of new computational methods and other new methodologies.</li> <li>• <b>Use of bioinformatic tools</b> (e.g. data standardisation, modelling, open repositories) for the <b>identification and utilisation of metabolic pathways. Datasets can have different origins, e.g. appropriate datasets on genomics, phenomics, proteomics, metabolomics, transcriptomics etc.</b> Mapping and exploitation of cellular processes and metabolic capacities for bio-production and for strain/variety improvement are also included.</li> <li>• <b>Biotechnological approaches (possibly in combination with chemical ones)</b> to transform bio-based building blocks into molecules with high added value in a sustainable way.</li> </ul>
<b>Measures</b>	
<b>Deadline</b>	02.03.2017
<b>Funding volume</b>	€36.3M
<b>Application procedure (one stage / two stage)</b>	1) Pre-proposals have to be submitted until March 2, 2017 (13:00 CET), 2) The deadline for submission of full proposals is July 20, 2017 (13:00 CEST)
<b>Consortium Conditions</b>	Joint projects must have a minimum of three and a maximum of six participants applying for funding from a minimum of three different

	ERA CoBioTech partner countries. The participation of one or more industrial partner(s) in the consortium is strongly recommended
<b>Remarks</b>	
<b>Contact Person</b>	
<b>Link</b>	<a href="https://www.cobiotech.eu/">https://www.cobiotech.eu/</a>

### 3.5 Private Funding Possibilities

More and more frequently used source of investment financing biogas are investment funds (open or closed), usually short-term investing in a specific biogas plant to achieve rapid and highest profit, practically limited to financial participation in the promising industries.

Examples:

- Fundusz WI EEC Ventures Sp. z o.o. <http://eecventures.com/pl/>, Zielony FIZAN <http://gepsa.pl/zielony-fiz/>
- NOVA Green Energy is an open-end mutual fund of qualified investors in the Central and Eastern Europe, particularly in the Czech Republic and Slovakia. <http://www.redsidefunds.com/en/funds/12>
- NEFCO's Investment Fund finances economically viable projects with positive environmental impacts. NEFCO's Investment Fund provides loan and equity financing. It is available in Belarus, Estonia, Latvia, Lithuania, Moldova, Poland, Russia or Ukraine. <https://www.nefco.org/work-us/our-services/loans-and-equity/investment-fund>
- The Ukraine Sustainable Energy Lending Facility (USELF) <http://www.uself.com.ua/>

### 3.6 Other Financing Tools

#### 3.6.1 Germany

There are different possibilities for investors to find funding opportunities, for example some banks specialized in bioenergy projects, credit institutes or consulting companies.

**Banks:**

- Umweltbank: [https://www.umweltbank.de/kredit/index\\_projektfinanzierung.html](https://www.umweltbank.de/kredit/index_projektfinanzierung.html)
- Bankengruppe KfW: <https://www.kfw.de/inlandsfoerderung/Unternehmen/Energie-Umwelt/> (→ Förderung von Biogasanlagen / Gasaufbereitung: <https://www.kfw.de/inlandsfoerderung/Unternehmen/Energie-Umwelt/Erneuerbare-Energien/Beispiele-aus-der-Praxis/Biogasanlage/>)

**Other financing tools:**

- „INVEST - Zuschuss für Wagniskapital“ des Bundesministeriums für Wirtschaft und Energie (BMWi)

Mit "INVEST - Zuschuss für Wagniskapital" sollen junge innovative Unternehmen bei der Suche nach einem Kapitalgeber für das benötigte Startkapital unterstützt werden und private Investoren - insbesondere Business Angels - motiviert werden, überhaupt oder mehr als bisher Wagniskapital für diese Unternehmen zur Verfügung zu stellen.

Link: <http://www.bmwi.de/Redaktion/DE/Dossier/invest.html>

### 3.6.2 Poland

There is possibility to get funding from a program called PROSUMENT. The program is implemented in 3 ways:

1. for local government units or their associations and commercial companies 100% owned by local governments – possibility to get loan with donation  $\geq$  200 000 zł.
2. from/through **banks** -funding available to banks for the purpose of granting bank credits, including donation/grants, interest rates 1 %  
<https://www.bosbank.pl/przedsiębiorstwa/finansowanie-1/kredyty-ekologiczne/kredyty-preferencyjne>
3. through Voivodeship Fund for Environmental Protection and Water Management - fundings available to Voivodeship Fund for Environmental Protection and Water Management for the purpose of granting loans, including donation/grants,

Biogas plant support in the "Bocian" programme of the national fund for environmental protection and water management <https://www.nfosigw.gov.pl/oferta-finansowania/srodki-krajowe/programy-prioritytowe/bocian-rozproszone-odnawialne-zrodla-energii/>

#### **Banks:**

- Bank Ochrony Środowiska <https://www.bosbank.pl/przedsiębiorstwa/finansowanie-1/kredyty-ekologiczne> (see program Prosument)
- Bank Ochrony Środowiska [https://www.bosbank.pl/files/file\\_111/INWESTYCJE-OZE-warminskie.pdf](https://www.bosbank.pl/files/file_111/INWESTYCJE-OZE-warminskie.pdf) It offers: financing up to 80% of the investment cost,; loan period 5 years; deferral of paying the loan capital up to 12 months; deferral of paying interest up to 18 months; interest rates 0,5 WIBOR 3M increased to 2 p.p

#### **Project developers:**

- In the market there are some companies specializing in preparation and implementation of biogas stations. They are very helpful in advising in the field of construction and exploitation of biogas plants, designing of biogas installations, supporting for investors during the stage of administration decisions acquisition, construction, studies and analyses of substrates for biogas production, advising in the field of biogas plant funding and operating and maintenance of biogas plants. Very often this companies makes and agreement with framer who give place, substrate.

### 3.6.3 Czech Republic

Significant external source of funding investment projects such as biogas plants is a bank loan. Banks on the Czech market found out that it is an interesting investment project, therefore, it can be stated that there is a wide offer of loans to finance projects of biogas plants in the Czech Republic (source: INVESTMENT OPPORTUNITIES FOR FAMILY BUSINESSES IN THE FIELD OF USE OF BIOGAS PLANTS Darina Myšáková, Ivan Jáč, Michal Petrů Business Administration and Management 4, XIX, 2016).

#### **Banks:**

- Commercial Bank; a short-term bridging loan to cover VAT, medium-term loan to pre-finance subsidies, long-term investment loan for the construction of a biogas plant, merger of medium-term loan for pre-financing a subsidy and a long-term investment loan for the construction of biogas plants into one loan with a special installment after receiving a subsidy, postponement of principal payment during construction and commissioning, regular repayment from revenues generated by the project, i.e. from sales of electricity or heat source INVESTMENT OPPORTUNITIES FOR FAMILY BUSINESSES IN THE FIELD OF USE OF BIOGAS PLANTS Darina Myšáková, Ivan Jáč, Michal Petrů Business Administration and Management 4, XIX, 2016).  
<https://www.kb.cz/en/loans-and-financing/financing-of-investments/euroenergie-loan/>
- Czech Savings Bank (source INVESTMENT OPPORTUNITIES FOR FAMILY BUSINESSES IN THE FIELD OF USE OF BIOGAS PLANTS Darina Myšáková, Ivan Jáč, Michal Petrů Business Administration and Management 4, XIX, 2016).
- GE Money Bank; <https://www.moneta.cz/> financing up to 100% of the investment costs (depending on the type of project and the economy investor), maturity of the loan up to 15 years (depending on the type of project and the economy investor), deferral of principal repayments of the loan during the construction of biogas plant (up to 18 months), an offer of complete investment insurance under very favorable conditions, cooperation with a leading provider of technology, assistance when negotiating favorable, purchase prices for electricity source INVESTMENT OPPORTUNITIES FOR FAMILY BUSINESSES IN THE FIELD OF USE OF BIOGAS PLANTS Darina Myšáková, Ivan Jáč, Michal Petrů Business Administration and Management 4, XIX, 2016).
- UniCredit Bank  
[https://www.unicreditbank.cz/en/search.html?q=renewable+projects&\\_charset=utf-8](https://www.unicreditbank.cz/en/search.html?q=renewable+projects&_charset=utf-8)  
long-term investment loans with maturities of up to 12 years, short-term loan for pre-financing of VAT, the possibility of loan installments after the completion of plant construction, interest rate hedges during the entire loan repayment period, in the case of quality projects, financed by UniCredit Bank up to 100% of contract for work



### 3.6.4 Slovakia

Banks have assessed financing of renewable resources as low risk projects due to stable cashflow that is necessary to smooth loan repayments

**Banks:**

- Tatra banka  
<http://www.tatrabanka.sk/app/search.html?searchTempField=1&query=renewable+energy+soures+project>
- UniCredit Bank; long-term investment loans with maturities of up to 12 years, short-term loan for pre-financing of VAT, the possibility of loan installments after the completion of plant construction, interest rate hedges during the entire loan repayment period, in the case of quality projects  
<https://www.unicreditbank.sk/sk/search.html?q=obnovite%C4%BEn%C3%BDch+zdrojov& charset =utf-8>

### 3.6.5 Latvia

The most common private biogas project financing method in Latvia is credits from private banks.

**Banks:**

- Swedbank, Nordea Bank Finland Latvian, DnB NORD Bank Latvijas, Hipoteku un zemes banka UniCredit Bank, Aizkraukles banka, GE Money Bank (Assessment on Financing Options and Bottlenecks for Biogas Projects in Latvia, Ekodoma January April, 2011)

### 3.6.6 Lithuania

Supports renewable energy investment projects through interest subsidies and soft loans. There are two calls a year that are published in the media or on the Fund's website.

<http://www.laaif.lt/lt/>

### 3.6.7 Estonia

EIC - Environmental Investment Centre performs as the implementing agency for the environmental projects funded by the European Regional Development Fund (ERDF), the European Social Fund (ESF) and the Cohesion Fund (CF) and to lend money for the implementation of environmental projects.

Environmental Investment Centre (KIK) is an agency which support for sustainable/environmentally friendly transport <http://www.kik.ee/en/supported-activity/production-biomethane-and-promoting-its-use-transportation>. Production of biomethane and

promoting its use in transportation The purpose of the support is to launch the consumption and delivery of biomethane in order to support attainment of the renewable energy objective in transport, creating demand for the fuels produced from renewable energy sources and thereby launching the production of biomethane as well as contributing to the development of the industry.

The supported activities are:

- creating the capability to deliver biomethane and offering the possibility to fill-up in a public individual or network station.
- introducing gas buses using biomethane in organizing public regular services.

#### **Banks:**

Each bank has different credit conditions. In general, the interest rate for bioenergy projects = general average interest rate on the market. The interest rate of each project is influenced by several risk factors, the key is definitely not the purpose of loan.

### 3.6.8 Ukraine

#### **Banks:**

European Bank for Reconstruction and Development (EBRD) provides renewable energy developers with equity, loans and loan guarantees for projects with good commercial prospects of up to 15 years' duration.

[www.ebrd.com/pages/workingwithus/projects.shtml](http://www.ebrd.com/pages/workingwithus/projects.shtml)

### 3.6.9 Romania

#### **Banks:**

Some banks have special loans for the financing of the renewable energy projects (e.g. BRD - Sustainable Energy Financing Facility for SMEs in Romania - RoSEFF) but not over 1 mil euro (source: Assessment on Financing Options and Bottlenecks for Biogas Projects in Romania )

<https://www.seff.ro/about-us/11/page/EN.html>

### 3.6.10 Hungary

Hungarian banks yet gained no special expertise in the field of financing of renewable energy projects. At most, the OTP Bank identifies himself as a specialist in this area, but comes only as a partner in major projects in question.

### 3.6.11 Sweden

Several institutions in Sweden provide interest free or low interest loans to technology developers in the clean tech industry. For example, Energimyndigheten and Almi. <http://www.energimyndigheten.se/forskning-och-innovation/affarsutveckling-och-kommersialisering/> ;  
<http://www.swedishcleantech.se/radgivningfinansiering/bidraglan.4.32e88512143a838073924ef.html>

There are also direct innovation funding at smaller scale through for example Green business development checks where an SME (2-50 employees and an annual turnover of >3M SEK) can get 50% of their development cost covered for solving specific technical problems. The program provides up to 250 000 SEK and is often used to buy contract help from external experts. <https://tillvaxtverket.se/vara-tjanster/utlysningar/utlysningar/2016-10-17-grona-affarsutvecklings-checkar.html>