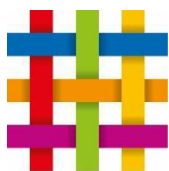


CONSORTIUM AGREEMENT



DESCA
Horizon 2020 Model
Consortium Agreement
www.DESCA-2020.eu

Version 1.2,
March 2016



This project has received funding
from European Union's Horizon 2020
research and innovation programme
under grant agreement n° 764675

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CONSORTIUM AGREEMENT

THIS CONSORTIUM AGREEMENT is based upon REGULATION (EU) No 1290/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 December 2013 laying down the rules for the participation and dissemination in “Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020)” (hereinafter referred to as “Rules for Participation”), and the Grant Agreement 764675, and is made on 01.09.2017, hereinafter referred to as the Effective Date

BETWEEN:

**Güssing Energy Technologies GmbH,
the Coordinator**

AND

**Fundacio Institut de Recerca en Energia de Catalunya (IREC),
Consorzio per la ricerca e la dimostrazione sulle energie rinnovabili,
Commissariat a l'energie Atomique et aux Energies Alternatives,
Johnson Matthey PLC,
Skupina Fabrika raziskave in razvoj d.o.o.,
Politecnico di Torino,
Technische Universität Wien,
Bioenergy 2020+ GmbH,
Instytut Chemicznej Przerobki Węgla,
Beta Renewables Spa,
ATMOSTAT,
Centro Ricerche Fiat SCPA,
R2M Solution Spain, S.L.**

hereinafter, jointly or individually, referred to as “Parties” or “Party”

relating to the Action entitled

**Biorefinery combining HTL and FT to convert wet and solid organic, industrial wastes
into 2nd generation biofuels with highest efficiency**

in short

Heat-To-Fuel

hereinafter referred to as “Project”

WHEREAS:

The Parties, having considerable experience in the field concerned, have submitted a proposal for the Project to the Funding Authority as part of the Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020)

The Parties wish to specify or supplement binding commitments among themselves in addition to the provisions of the specific Grant Agreement number 764675 signed by the Parties and the Funding Authority (hereinafter “Grant Agreement”).

The Parties are aware that this Consortium Agreement is based upon the DESCA model consortium agreement.

NOW, THEREFORE, IT IS HEREBY AGREED AS FOLLOWS:

1. Section: Definitions

1.1. Definitions

Words beginning with a capital letter shall have the meaning defined either herein or in the Rules for Participation or in the Grant Agreement including its Annexes.

1.2. Additional Definitions

“Consortium Body”:

Consortium Body means any management body described in the Governance Structure section of this Consortium Agreement.

“Consortium Plan”

Consortium Plan means the description of the action and the related agreed budget as first defined in the Grant Agreement and which may be updated by the Steering committee.

“Funding Authority”

Funding Authority means the body awarding the grant for the Project, which is the Innovation and Networks Executive Agency (INEA), under the powers delegated by the European Commission.

“Defaulting Party”

Defaulting Party means a Party which the Steering committee has declared to be in breach of this Consortium Agreement and/or the Grant Agreement as specified in Section 4.2 of this Consortium Agreement.

“Needed”

means:

For the implementation of the Project:

Access Rights are Needed if, without the grant of such Access Rights, carrying out the tasks assigned to the recipient Party would be technically or legally impossible, significantly delayed, or require significant additional financial or human resources.

For Exploitation of own Results:

Access Rights are Needed if, without the grant of such Access Rights, the Exploitation of own Results would be technically or legally impossible.

“Software”

Software means sequences of instructions to carry out a process in, or convertible into, a form executable by a computer and fixed in any tangible medium of expression.

2. Section: Purpose

The purpose of this Consortium Agreement is to specify with respect to the Project the relationship among the Parties, in particular concerning the organisation of the work between the Parties, the management of the Project and the rights and obligations of the Parties concerning inter alia liability, Access Rights and dispute resolution.

3. Section: Entry into force, duration and termination

3.1. Entry into force

An entity becomes a Party to this Consortium Agreement upon signature of this Consortium Agreement by a duly authorised representative.

This Consortium Agreement shall have effect from the Effective Date identified at the beginning of this Consortium Agreement.

A new entity becomes a Party to the Consortium Agreement upon signature of the accession document (Attachment 2) by the new Party and the Coordinator. Such accession shall have effect from the date identified in the accession document.

3.2. Duration and termination

This Consortium Agreement shall continue in full force and effect until complete fulfilment of all obligations undertaken by the Parties under the Grant Agreement and under this Consortium Agreement.

However, this Consortium Agreement or the participation of one or more Parties to it may be terminated in accordance with the terms of this Consortium Agreement.

If

- the Grant Agreement is not signed by the Funding Authority or a Party, or
- the Grant Agreement is terminated, or
- a Party's participation in the Grant Agreement is terminated,

this Consortium Agreement shall automatically terminate in respect of the affected Party/ies, subject to the provisions surviving the expiration or termination under Section 3.3 of this Consortium Agreement.

3.3. Survival of rights and obligations

The provisions relating to Access Rights, Dissemination and confidentiality, for the time period mentioned therein, as well as for liability, applicable law and settlement of disputes shall survive the expiration or termination of this Consortium Agreement.

Termination shall not affect any rights or obligations of a Party leaving the Consortium incurred prior to the date of termination, unless otherwise agreed between the Steering committee and the leaving Party. This includes the obligation to provide all input, deliverables and documents for the period of its participation.

4. Section: Responsibilities of Parties

4.1. General principles

Each Party undertakes to take part in the efficient implementation of the Project, and to cooperate, perform and fulfil, promptly and on time, all of its obligations under the Grant Agreement and this Consortium Agreement as may be reasonably required from it and in a manner of good faith as prescribed by Belgian law.

Each Party undertakes to notify promptly, in accordance with the governance structure of the Project, any significant information, fact, problem or delay likely to affect the Project.

Each Party shall promptly provide all information reasonably required by a Consortium Body or by the Coordinator to carry out its tasks.

Each Party shall take reasonable measures to ensure the accuracy of any information or materials it supplies to the other Parties.

4.2. Breach

In the event that a responsible Consortium Body identifies a breach by a Party of its obligations under this Consortium Agreement or the Grant Agreement (e.g. improper implementation of the project), the Coordinator or, if the Coordinator is in breach of its obligations, the Party appointed by the Steering committee, will give formal notice to such Party requiring that such breach will be remedied within 30 calendar days from the date of receipt of the written notice by the

Coordinator or, should the Party in breach is the Coordinator, the Party appointed by the Steering committee.

If such breach is substantial and is not remedied within that period of 30 calendar days or is not capable of remedy, the Steering committee may decide to declare the Party to be a Defaulting Party and to decide on the consequences thereof which may include termination of its participation in the project.

4.3. Involvement of third parties

A Party that enters into a subcontract or otherwise involves third parties (including but not limited to Affiliated Entities) in the Project remains responsible for carrying out its relevant part of the Project and for such third party's compliance with the provisions of this Consortium Agreement and of the Grant Agreement. It has to ensure that the involvement of third parties does not affect the rights and obligations of the other Parties under this Consortium Agreement and the Grant Agreement.

5. Section: Liability towards each other

5.1. No warranties

In respect of any information or materials (incl. Results and Background) supplied by one Party to another Party under the Project, no warranty or representation of any kind is made, given or implied as to the sufficiency or fitness for purpose nor as to the absence of any infringement of any proprietary rights of third parties.

Therefore,

- the recipient Party shall in all cases be entirely and solely liable for the use to which it puts such information and materials, and
- no Party granting Access Rights shall be liable in case of infringement of proprietary rights of a third party resulting from any other Party (or its Affiliated Entities) exercising its Access Rights.

5.2. Limitations of contractual liability

No Party shall be responsible to any other Party for any indirect or consequential loss or similar damage such as, but not limited to, loss of profit, loss of revenue or loss of contracts, provided such damage was not caused by a wilful act or by a breach of confidentiality.

For any remaining contractual liability, a Party's aggregate liability towards the other Parties collectively shall be limited to once the Party's share of the total costs of the Project as identified in Annex 2 of the Grant Agreement provided such damage was not caused by a wilful act or gross negligence.

The terms of this Consortium Agreement shall not be construed to amend or limit any Party's statutory liability.

5.3. Damage caused to third parties

Each Party shall be solely liable for any loss, damage or injury to third parties resulting from the performance of the said Party's obligations by it or on its behalf under this Consortium Agreement or from its use of Results or Background.

5.4. Force Majeure

No Party shall be considered to be in breach of this Consortium Agreement if it is prevented from fulfilling its obligations under the Consortium Agreement by Force Majeure.

Each Party will notify the competent Consortium Bodies of any Force Majeure without undue delay. If the consequences of Force Majeure for the Project are not overcome within 6 weeks

after such notification, the transfer of tasks - if any - shall be decided by the competent Consortium Bodies.

6. Section: Governance structure

6.1. General structure

The organisational structure of the Consortium shall comprise the following Consortium Bodies:

Steering committee as the ultimate decision-making body of the consortium

Technical committee as the supervisory body for the execution of the Project which shall report to and be accountable to the Steering committee.

The Coordinator is the legal entity acting as the intermediary between the Parties and the Funding Authority. The Coordinator shall, in addition to its responsibilities as a Party, perform the tasks assigned to it as described in the Grant Agreement and this Consortium Agreement.

6.2. General operational procedures for all Consortium Bodies

6.2.1. Representation in meetings

Any Party which is a member of a Consortium Body (hereinafter referred to as "Member"):

- should be present or represented at any meeting;
- may appoint a substitute or a proxy to attend and vote at any meeting;

and shall participate in a cooperative manner in the meetings.

6.2.2. Preparation and organisation of meetings

6.2.2.1. Convening meetings

The chairperson of a Consortium Body shall convene meetings of that Consortium Body.

	Ordinary meeting	Extraordinary meeting
Steering committee	At least once a year	At any time upon written request of the Technical committee or 1/3 of the Members of the Steering committee
Technical committee	At least twice a year	At any time upon written request of any Member of the Technical committee

6.2.2.2. Notice of a meeting

The chairperson of a Consortium Body shall give notice in writing of a meeting to each Member of that Consortium Body as soon as possible and no later than the minimum number of days preceding the meeting as indicated below.

	Ordinary meeting	Extraordinary meeting
Steering committee	30 calendar days	15 calendar days
Technical committee	14 calendar days	7 calendar days

6.2.2.3. Sending the agenda

The chairperson of a Consortium Body shall prepare and send each Member of that Consortium Body a written (original) agenda no later than the minimum number of days preceding the meeting as indicated below.

Steering committee	21 calendar days, 10 calendar days for an extraordinary meeting
Technical committee	7 calendar days

6.2.2.4. Adding agenda items:

Any agenda item requiring a decision by the Members of a Consortium Body must be identified as such on the agenda.

Any Member of a Consortium Body may add an item to the original agenda by written notification to all of the other Members of that Consortium Body up to the minimum number of days preceding the meeting as indicated below.

Steering committee	14 calendar days, 7 calendar days for an extraordinary meeting
Technical committee	2 calendar days

6.2.2.5. During a meeting the Members of a Consortium Body present or represented can unanimously agree to add a new item to the original agenda

6.2.2.6. Meetings of each Consortium Body may also be held by teleconference or other telecommunication means.

6.2.2.7. Decisions will only be binding once the relevant part of the Minutes has been accepted according to Section 6.2.5.

6.2.2.8 Any decision may also be taken without a meeting if the Coordinator circulates to all Members of the Consortium Body a written document, which is then agreed by the defined majority (see Section 6.2.3) of all Members of the Consortium Body. Such document shall include the deadline for responses.

Decisions taken without a meeting shall be considered as accepted if, within the period set out in article 6.2.4.4, no Member has sent an objection in writing to the chairperson. The decisions will be binding after the chairperson sends to all Members of the Consortium Body and to the Coordinator a written notification of this acceptance.

6.2.3. Voting rules and quorum

6.2.3.1. Each Consortium Body shall not deliberate and decide validly unless two-thirds (2/3) of its Members are present or represented (quorum). If the quorum is not reached, the chairperson of the Consortium Body shall convene another ordinary meeting within 15 calendar days. If in this meeting the quorum is not reached once more, the chairperson shall convene an extraordinary meeting which shall be entitled to decide even if less than the quorum of Members are present or represented.

6.2.3.2. Each Member of a Consortium Body present or represented in the meeting shall have one vote.

6.2.3.3. A Party which the Steering committee has declared according to Section 4.2 to be a Defaulting Party may not vote.

6.2.3.4. Decisions shall be taken by the bare majority. In case of tie vote the coordinator will get an additional vote.

6.2.4. Veto rights

6.2.4.1. A Member which can show that its own work, time for performance, costs, liabilities, intellectual property rights or other legitimate interests would be severely affected by a

decision of a Consortium Body may exercise a veto with respect to the corresponding decision or relevant part of the decision.

6.2.4.2. When the decision is foreseen on the original agenda, a Member may veto such a decision during the meeting only.

6.2.4.3. When a decision has been taken on a new item added to the agenda before or during the meeting, a Member may veto such decision during the meeting and within 15 calendar days after the draft minutes of the meeting are sent. A Party that is not a Member of a particular Consortium Body may veto a decision within the same number of calendar days after the draft minutes of the meeting are sent.

6.2.4.4. When a decision has been taken without a meeting a Member may veto such decision within 15 calendar days after written notification by the chairperson of the outcome of the vote.

6.2.4.5. In case of exercise of veto, the Members of the related Consortium Body shall make every effort to resolve the matter which occasioned the veto to the general satisfaction of all its Members.

6.2.4.6. A Party may neither veto decisions relating to its identification to be in breach of its obligations nor to its identification as a Defaulting Party. The Defaulting Party may not veto decisions relating to its participation and termination in the consortium or the consequences of them.

6.2.4.7. A Party requesting to leave the consortium may not veto decisions relating thereto.

6.2.5. Minutes of meetings

6.2.5.1. The chairperson of a Consortium Body shall produce written minutes of each meeting which shall be the formal record of all decisions taken. He/she shall send the draft minutes to all Members within 10 calendar days of the meeting.

6.2.5.2. The minutes shall be considered as accepted if, within 7 calendar days from sending, no Member has sent an objection in writing to the chairperson with respect to the accuracy of the draft of the minutes.

6.2.5.3. The chairperson shall send the accepted minutes to all the Members of the Consortium Body and to the Coordinator, who shall safeguard them. If requested the Coordinator shall provide authenticated duplicates to Parties.

6.3. Specific operational procedures for the Consortium Bodies

6.3.1. Steering committee

In addition to the rules described in Section 6.2, the following rules apply:

6.3.1.1. Members

6.3.1.1.1. The Steering committee shall consist of one representative of each Party (hereinafter Steering committee Member).

6.3.1.1.2. Each Steering committee Member shall be deemed to be duly authorised to deliberate, negotiate and decide on all matters listed in Section 6.3.1.2. of this Consortium Agreement.

6.3.1.1.3. The Coordinator shall chair all meetings of the Steering committee, unless decided otherwise in a meeting of the Steering committee.

6.3.1.1.4. The Parties agree to abide by all decisions of the Steering committee. This does not prevent the Parties to submit a dispute to resolution in accordance with the provisions of Settlement of disputes in Section 11.8.

6.3.1.2. Decisions

The Steering committee shall be free to act on its own initiative to formulate proposals and take decisions in accordance with the procedures set out herein. In addition, all proposals made by the Technical committee shall also be considered and decided upon by the Steering committee.

The following decisions shall be taken by the Steering committee:

Content, finances and intellectual property rights

- Proposals for changes to Annexes 1 and 2 of the Grant Agreement to be agreed by the Funding Authority
- Changes to the Consortium Plan
- Modifications to Attachment 1 (Background Included)
- Additions to Attachment 3 (List of Third Parties for simplified transfer according to Section 8.3.2)
- Additions to Attachment 4 (Identified Affiliated Entities)

Evolution of the consortium

- Entry of a new Party to the consortium and approval of the settlement on the conditions of the accession of such a new Party
- Withdrawal of a Party from the consortium and the approval of the settlement on the conditions of the withdrawal
- Identification of a breach by a Party of its obligations under this Consortium Agreement or the Grant Agreement
- Declaration of a Party to be a Defaulting Party
- Remedies to be performed by a Defaulting Party
- Termination of a Defaulting Party's participation in the consortium and measures relating thereto
- Proposal to the Funding Authority for a change of the Coordinator
- Proposal to the Funding Authority for suspension of all or part of the Project
- Proposal to the Funding Authority for termination of the Project and the Consortium Agreement

Appointments

On the basis of the Grant Agreement, the appointment if necessary of:

- Technical committee Members

6.3.2. Technical committee

In addition to the rules in Section 6.2, the following rules shall apply:

6.3.2.1. Members

The Technical Committee will be composed by the Work-Package Leaders (WPL) nominated for each work-package and at least one technical representative of each Party, and chaired by the Coordinator.

The Coordinator shall chair all meetings of the Technical committee, unless decided otherwise by a majority of two-thirds of the Parties.

6.3.2.2. Minutes of meetings

Minutes of Technical committee meetings, once accepted, shall be sent by the Coordinator to the Steering committee Members for information.

6.3.2.3. Tasks

6.3.2.3.1. The Technical committee shall prepare the meetings, propose decisions and prepare the agenda of the Steering committee according to Section 6.3.1.2.

6.3.2.3.2. The Technical committee shall seek a consensus among the Parties.

6.3.2.3.3. The Technical committee shall be responsible for the proper execution and implementation of the decisions of the Steering committee.

6.3.2.3.4. The Technical committee shall monitor the effective and efficient implementation of the Project.

6.3.2.3.5. In addition, the Technical committee shall collect information at least every 6 months on the progress of the Project, examine that information to assess the compliance of the Project with the Consortium Plan and, if necessary, propose modifications of the Consortium Plan to the Steering committee.

6.3.2.3.6. The Technical committee shall:

- support the Coordinator in preparing meetings with the Funding Authority and in preparing related data and deliverables
- prepare the content and timing of extraordinary press releases and joint publications as supplement to the WP8 activities by the consortium or proposed by the Funding Authority in respect of the procedures of the Grant Agreement Article 29.

6.3.2.3.7. In the case of abolished tasks as a result of a decision of the Steering committee, the Technical committee shall advise the Steering committee on ways to rearrange tasks and budgets of the Parties concerned. Such rearrangement shall take into consideration the legitimate commitments taken prior to the decisions of the Steering committee, which cannot be cancelled.

6.4. Coordinator

6.4.1. The Coordinator shall be the intermediary between the Parties and the Funding Authority and shall perform all tasks assigned to it as described in the Grant Agreement and in this Consortium Agreement.

6.4.2. In particular, the Coordinator shall be responsible for:

- monitoring compliance by the Parties with their obligations
- keeping the address list of Members and other contact persons updated and available
- collecting, reviewing to verify consistency and submitting reports, other deliverables (including financial statements and related certifications) and specific requested documents to the Funding Authority
- transmitting documents and information connected with the Project to any other Parties concerned
- administering the financial contribution of the Funding Authority and fulfilling the financial tasks described in Section 7.3 regarding payments
- providing, upon request, the Parties with official copies or originals of documents that are in the sole possession of the Coordinator when such copies or originals are necessary for the Parties to present claims.

If one or more of the Parties is late in submission of any project deliverable, the Coordinator may nevertheless submit the other 'Parties' project deliverables and all other documents required by the Grant Agreement to the Funding Authority in time.

6.4.3. If the Coordinator fails in its coordination tasks, the Steering committee may propose to the Funding Authority to change the Coordinator.

6.4.4. The Coordinator shall not be entitled to act or to make legally binding declarations on behalf of any other Party or of the consortium, unless explicitly stated otherwise in the Grant Agreement or this Consortium Agreement.

6.4.5. The Coordinator shall not enlarge its role beyond the tasks specified in this Consortium Agreement and in the Grant Agreement.

6.5. Steering Committee (SC)

The Steering Committee members will be preferably chosen to ensure a high level of commitment and their ability to make decisions on behalf of their organisation; for meetings dedicated to specific topics, experts of each organisation may be invited.

The SC will make high-level decisions concerning every aspect of the project life:

- Validation of technical re-orientations proposed by the TC,
- Follow-up of financial project statement and allocation of funds (received and distributed by the Coordinator);
- Possible changes in the consortium;
- Resolutions of conflicts on technical, financial and strategic issues;
- Propose reallocation of budget in case of major deviation

The Steering Committee will meet annually on a regular basis respectively there will be extraordinary meetings if needed and required by at least 1/3 of the Members of the Steering committee. In such event these Parties will notify the Coordinator the need to summon the SC summarising the reasons for such meeting. The Coordinator will make reasonable efforts to summon up a meeting of the SC in the shortest time possible.

All strategic decisions regarding financial, administrative or IPR subjects will be taken by the SC. The TC will decide the technical decisions and it will raise its decisions to the SC approval in case of conflict.

Decisions will be taken by simple majority. In case of tie vote the Coordinator will get an additional vote

6.6. Technical Committee (TC)

The role of the TC will be to ensure the progress of the technical aspects of the Project:

- Prepare the programme of technical activities
- Ensure the day-to-day Project technical follow-up
- Report technical progress and deviations
- Report on technical, financial and strategic issues to be raised to the SC.
- Prepare the interim and periodic technical progress reports.

The Technical Committee will meet at M3 and M6 to ensure an efficient launch of the technical work. Partners will then meet on a 6-monthly basis to follow the Project work progress. Additional meetings and web conferences will be held whenever necessary upon written request of three (3) Parties or the Coordinator, to ensure the Project follow up and communication

7. Section: Financial provisions

7.1. General Principles

7.1.1. Distribution of Financial Contribution

The financial contribution of the Funding Authority to the Project shall be distributed by the Coordinator according to:

- the Consortium Plan
- the approval of reports by the Funding Authority, and
- the provisions of payment in Section 7.3.

A Party shall be funded only for its tasks carried out in accordance with the Consortium Plan.

7.1.2. Justifying Costs

In accordance with its own usual accounting and management principles and practices, each Party shall be solely responsible for justifying its costs with respect to the Project towards the Funding Authority. Neither the Coordinator nor any of the other Parties shall be in any way liable or responsible for such justification of costs towards the Funding Authority.

7.1.3. Funding Principles

A Party that spends less than its allocated share of the budget as set out in the Consortium Plan or – in case of reimbursement via unit costs - implements less units than foreseen in the Consortium Plan will be funded in accordance with its actual duly justified eligible costs only. A Party that spends more than its allocated share of the budget as set out in the Consortium Plan will be funded only in respect of duly justified eligible costs up to an amount not exceeding that share of the budget.

7.1.4. Return of excess payments; receipts

7.1.4.1. In any case of a Party having received excess payments, the Party has to return the relevant amount to the Coordinator without undue delay.

7.1.4.2. In case a Party earns any receipt that is deductible from the total funding as set out in the Consortium Plan, the deduction is only directed toward the Party earning such income. The other Parties' financial share of the budget shall not be affected by one Party's receipt. In case the relevant receipt is more than the allocated share of the Party as set out in the Consortium Plan, the Party shall reimburse the funding reduction suffered by other Parties.

7.1.5. Financial Consequences of the termination of the participation of a Party

A Party leaving the consortium shall refund all payments it has received except the amount of contribution accepted by the Funding Authority or another contributor. Furthermore a Defaulting Party shall, within the limits specified in Section 5.2 of this Consortium Agreement, bear any reasonable and justifiable additional costs occurring to the other Parties in order to perform its and their tasks.

7.2. Budgeting

The budget set out in the Consortium Plan shall be valued in accordance with the usual accounting and management principles and practices of the respective Parties.

7.3. Payments

7.3.1. Payments to Parties are the exclusive tasks of the Coordinator.

In particular, the Coordinator shall:

- notify the Party concerned promptly of the date and composition of the amount transferred to its bank account, giving the relevant references
- perform diligently its tasks in the proper administration of any funds and in maintaining financial accounts
- undertake to keep the Funding Authority's financial contribution to the Project separated from its normal business accounts, its own assets and property, except if the Coordinator is a Public Body or is not entitled to do so due to statutory legislation.
-
- With reference to Articles 21.2 and 21.3.2 of the Grant Agreement, no Party shall before the end of the Project receive more than its allocated share of the maximum grant amount from which the amounts retained by the Funding Authority for the Guarantee Fund and for the final payment have been deducted.

7.3.2. The payment schedule, which contains the transfer of pre-financing and interim payments to Parties, will be handled according to the following:

Funding of costs included in the Consortium Plan will be paid to Parties after receipt from the Funding Authority without undue delay and in conformity with the provisions of the Grant Agreement. Costs accepted by the Funding Authority will be paid to the Party concerned.

8. Section: Results

8.1. Ownership of Results

Results are owned by the Party that generates them.

8.2. Joint ownership

Joint ownership is governed by Grant Agreement Article 26.2 with the following additions:

Unless otherwise agreed:

- each of the joint owners shall be entitled to use their jointly owned Results for non-commercial research activities on a royalty-free basis, and without requiring the prior consent of the other joint owner(s), and
- each of the joint owners shall be entitled to otherwise Exploit the jointly owned Results and to grant non-exclusive licenses to third parties (without any right to sub-license), if the other joint owners are given:
 - (a) at least 45 calendar days advance notice; and
 - (b) Fair and Reasonable compensation.

8.3. Transfer of Results

8.3.1. Each Party may transfer ownership of its own Results following the procedures of the Grant Agreement Article 30.

8.3.2. It may identify specific third parties it intends to transfer the ownership of its Results to in Attachment (3) to this Consortium Agreement. The other Parties hereby waive their right to prior notice and their right to object to a transfer to listed third parties according to the Grant Agreement Article 30.1.

8.3.3. The transferring Party shall, however, at the time of the transfer, inform the other Parties of such transfer and shall ensure that the rights of the other Parties will not be affected by such transfer. Any addition to Attachment (3) after signature of this Agreement requires a decision of the Steering committee.

8.3.4. The Parties recognize that in the framework of a merger or an acquisition of an important part of its assets, it may be impossible under applicable EU and national laws on mergers and acquisitions for a Party to give the full 45 calendar days prior notice for the transfer as foreseen in the Grant Agreement.

8.3.5. The obligations above apply only for as long as other Parties still have - or still may request - Access Rights to the Results.

8.4. Dissemination

8.4.1. For the avoidance of doubt, nothing in this Section 8.4 has impact on the confidentiality obligations set out in Section 10.

8.4.2. Dissemination of own Results

8.4.2.1. During the Project and for a period of 1 year after the end of the Project, the dissemination of own Results by one or several Parties including but not restricted to publications and presentations, shall be governed by the procedure of Article 29.1 of the Grant Agreement subject to the following provisions.

Prior notice of any planned publication shall be given to the other Parties at least 25 calendar days before the publication.

If the planned publication affects Party JM, prior notice shall be given at least 30 calendar days before the publication.

Any objection to the planned publication shall be made in accordance with the Grant Agreement in writing to the Coordinator and to the Party or Parties proposing the dissemination within 15 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the publication is permitted.

8.4.2.2. An objection is justified if

- (a) the protection of the objecting Party's Results or Background would be adversely affected
- (b) the objecting Party's legitimate interests in relation to the Results or Background would be significantly harmed.

The objection has to include a precise request for necessary modifications.

8.4.2.3. If an objection has been raised the involved Parties shall discuss how to overcome the justified grounds for the objection on a timely basis (for example by amendment to the planned publication and/or by protecting information before publication) and the objecting Party shall not unreasonably continue the opposition if appropriate measures are taken following the discussion.

8.5. The objecting Party can request a publication delay of not more than 45 calendar days from the time it raises such an objection. After 45 calendar days the publication is permitted.

8.5.1. Dissemination of another Party's unpublished Results or Background

A Party shall not include in any dissemination activity another Party's Results or Background without obtaining the owning Party's prior written approval, unless they are already published.

8.5.2. Cooperation obligations

The Parties undertake to cooperate to allow the timely submission, examination, publication and defence of any dissertation or thesis for a degree that includes their Results or Background subject to the confidentiality and publication provisions agreed in this Consortium Agreement.

8.5.3. Use of names, logos or trademarks

Nothing in this Consortium Agreement shall be construed as conferring rights to use in advertising, publicity or otherwise the name of the Parties or any of their logos or trademarks without their prior written approval.

9. Section: Access Rights

9.1. Background included

9.1.1. In Attachment 1, the Parties have identified and agreed on the Background for the Project and have also, where relevant, informed each other that Access to specific Background is subject to legal restrictions or limits.

Anything not identified in Attachment 1 shall not be the object of Access Right obligations regarding Background.

9.1.2. Any Party may add further own Background to Attachment 1 during the Project by written notice to the other Parties. However, approval of the Steering committee is needed should a Party wish to modify or withdraw its Background in Attachment 1.

9.2. General Principles

9.2.1. Each Party shall implement its tasks in accordance with the Consortium Plan and shall bear sole responsibility for ensuring that its acts within the Project do not knowingly infringe third party property rights.

9.2.2. Any Access Rights granted expressly exclude any rights to sublicense unless expressly stated otherwise.

9.2.3. Access Rights shall be free of any administrative transfer costs.

9.2.4. Access Rights are granted on a non-exclusive basis.

9.2.5. Results and Background shall be used only for the purposes for which Access Rights to it have been granted.

9.2.6. All requests for Access Rights shall be made in writing. The granting of Access Rights may be made conditional on the acceptance of specific conditions aimed at ensuring that these rights will be used only for the intended purpose and that appropriate confidentiality obligations are in place.

9.2.7. The requesting Party must show that the Access Rights are Needed.

9.3. Access Rights for implementation

Access Rights to Results and Background needed for the performance of the own work of a Party under the Project shall be granted on a royalty-free basis, unless otherwise agreed for Background in Attachment 1.

9.4. Access Rights for Exploitation

9.4.1. Access Rights to Results

9.5. Access Rights to Results if Needed for Exploitation of a Party's own Results shall be granted on Fair and Reasonable conditions.

Access rights to Results for internal research activities shall be granted on a royalty-free basis.

9.5.1. Access Rights to Background

9.5.2. Access Rights to Background if needed for Exploitation of a Party's own Results, including for research on behalf of a third party, shall be granted on Fair and Responsible conditions.

9.5.3. A request for Access Rights may be made up to twelve months after the end of the Project or, in the case of Section 9.8.2.1.2, after the termination of the requesting Party's participation in the Project.

9.6. Access Rights for Affiliated Entities

Affiliated Entities have Access Rights under the conditions of the Grant Agreement Articles 25.4 and 31.4. if they are identified in Attachment 4 (Identified Affiliated Entities) to this Consortium Agreement.

Such Access Rights must be requested by the Affiliated Entity from the Party that holds the Background or Results. Alternatively, the Party granting the Access Rights may individually agree with the Party requesting the Access Rights to have the Access Rights include the right to sublicense to the latter's Affiliated Entities listed in Attachment 4. Access Rights to Affiliated

Entities shall be granted on Fair and Reasonable conditions and upon written bilateral agreement.

Affiliated Entities which obtain Access Rights in return fulfil all confidentiality and other obligations accepted by the Parties under the Grant Agreement or this Consortium Agreement as if such Affiliated Entities were Parties.

Access Rights may be refused to Affiliated Entities if such granting is contrary to the legitimate interests of the Party which owns the Background or the Results.

Access Rights granted to any Affiliated Entity are subject to the continuation of the Access Rights of the Party to which it is affiliated, and shall automatically terminate upon termination of the Access Rights granted to such Party.

Upon cessation of the status as an Affiliated Entity, any Access Rights granted to such former Affiliated Entity shall lapse.

Further arrangements with Affiliated Entities may be negotiated in separate agreements.

9.7. Additional Access Rights

For the avoidance of doubt any grant of Access Rights not covered by the Grant Agreement or this Consortium Agreement shall be at the absolute discretion of the owning Party and subject to such terms and conditions as may be agreed between the owning and receiving Parties.

9.8. Access Rights for Parties entering or leaving the consortium

9.8.1. New Parties entering the consortium

As regards Results developed before the accession of the new Party, the new Party will be granted Access Rights on the conditions applying for Access Rights to Background.

9.8.2. Parties leaving the consortium

9.8.2.1. Access Rights granted to a leaving Party

9.8.2.1.1. Defaulting Party

Access Rights granted to a Defaulting Party and such Party's right to request Access Rights shall cease immediately upon receipt by the Defaulting Party of the formal notice of the decision of the Steering committee to terminate its participation in the consortium.

9.8.2.1.2. Non-defaulting Party

A non-defaulting Party leaving voluntarily and with the other Parties' consent shall have Access Rights to the Results developed until the date of the termination of its participation.

It may request Access Rights within the period of time specified specified in Section 9.5.3.

9.8.2.2. Access Rights to be granted by any leaving Party

Any Party leaving the Project shall continue to grant Access Rights pursuant to the Grant Agreement and this Consortium Agreement as if it had remained a Party for the whole duration of the Project.

9.9. Specific Provisions for Access Rights to Software

For the avoidance of doubt, the general provisions for Access Rights provided for in this Section 9 are applicable also to Software.

Parties' Access Rights to Software do not include any right to receive source code or object code ported to a certain hardware platform or any right to receive respective Software documentation in any particular form or detail, but only as available from the Party granting the Access Rights.

10. Section: Non-disclosure of information

10.1. All information in whatever form or mode of communication, which is disclosed by a Party (the "Disclosing Party") to any other Party (the "Recipient") in connection with the Project is "Confidential Information". If a partner is forwarding informations to another partner or the consortium, which is not confidential it has to be explicitly agreed between this partners, that this information is not confidential.

10.2. The Recipients hereby undertake in addition and without prejudice to any commitment on non-disclosure under the Grand Agreement, for a period of 4 years after the end of the Project:

- Not to use Confidential Information otherwise than for the purpose for which it was disclosed;
- not to disclose Confidential Information without the prior written consent by the Disclosing Party;
- to ensure that internal distribution of Confidential Information by a Recipient shall take place on a strict need-to-know basis; and
- to return to the Disclosing Party, or destroy, on request all Confidential Information that has been disclosed to the Recipients including all copies thereof and to delete all information stored in a machine readable form to the extent practically possible. The Recipients may keep a copy to the extent it is required to keep, archive or store such Confidential Information because of compliance with applicable laws and regulations or for the proof of on-going obligations provided that the Recipient comply with the confidentiality obligations herein contained with respect to such copy for as long as the copy is retained.

10.3. The recipients shall be responsible for the fulfilment of the above obligations on the part of their employees or third parties involved in the Project and shall ensure that they remain so obliged, as far as legally possible, during and after the end of the Project and/or after the termination of the contractual relationship with the employee or third party.

10.4. The above shall not apply for disclosure or use of Confidential Information, if and in so far as the Recipient can show that:

- the Confidential Information has become or becomes publicly available by means other than a breach of the Recipient's confidentiality obligations;
- the Disclosing Party subsequently informs the Recipient that the Confidential Information is no longer confidential;
- the Confidential Information is communicated to the Recipient without any obligation of confidentiality by a third party who is in lawful possession thereof and under no obligation of confidentiality to the Disclosing Party;
- the disclosure or communication of the Confidential Information is foreseen by provisions of the Grant Agreement;
- the Confidential Information, at any time, was developed by the Recipient completely independently of any such disclosure by the Disclosing Party;
- the Confidential Information was already known to the Recipient prior to disclosure, or
- the Recipient is required to disclose the Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, subject to the provision Section 10.7 hereunder.

10.5. The Recipient shall apply the same degree of care with regard to the Confidential Information disclosed within the scope of the Project as with its own confidential and/or proprietary information, but in no case less than reasonable care

10.6. Each Party shall promptly advise the other Party in writing of any unauthorised disclosure, misappropriation or misuse of Confidential Information after it becomes aware of such unauthorised disclosure, misappropriation or misuse.

10.7. If any Party becomes aware that it will be required, or is likely to be required, to disclose Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, it shall, to the extent it is lawfully able to do so, prior to any such disclosure

- - notify the Disclosing Party, and
- - comply with the Disclosing Party's reasonable instructions to protect the confidentiality of the information.

10.8. If a Party supplies any sample material or product to the other Parties in connection with the Project, such sample material or product shall be supplied under a material transfer agreement to be agreed by the Parties at that time. Said material transfer agreement must be in accordance with the Grant Agreement and this Consortium Agreement. An additional material transfer agreement has to be signed only if the supplier requests this. . If the party does no request a dedicated Transfer agreement, sample material or product will be supply under the consortium agreement.

11. Section: Miscellaneous

11.1. Attachments, inconsistencies and severability

This Consortium Agreement consists of this core text and

Attachment 1 (Background included)

Attachment 2 (Accession document)

Attachment 3 (List of Third Parties for simplified transfer according to Section 8.3.2)

Attachment 4 (Identified Affiliated Entities)

In case the terms of this Consortium Agreement are in conflict with the terms of the Grant Agreement, the terms of the latter shall prevail. In case of conflicts between the attachments and the core text of this Consortium Agreement, the latter shall prevail.

Should any provision of this Consortium Agreement become invalid, illegal or unenforceable, it shall not affect the validity of the remaining provisions of this Consortium Agreement. In such a case, the Parties concerned shall be entitled to request that a valid and practicable provision be negotiated that fulfils the purpose of the original provision.

11.2. No representation, partnership or agency

Except as otherwise provided in Section 6.4.4, no Party shall be entitled to act or to make legally binding declarations on behalf of any other Party or of the consortium. Nothing in this Consortium Agreement shall be deemed to constitute a joint venture, agency, partnership, interest grouping or any other kind of formal business grouping or entity between the Parties.

11.3. Notices and other communication

Any notice to be given under this Consortium Agreement shall be in writing to the addresses and recipients as listed in the most current address list kept by the Coordinator.

Formal notices:

If it is required in this Consortium Agreement (Sections 4.2, 9.8.2.1.1, and 11.4) that a formal notice, consent or approval shall be given, such notice shall be signed by an authorised representative of a Party and shall either be served personally or sent by mail with recorded delivery or telefax with receipt acknowledgement.

Other communication:

Other communication between the Parties may also be effected by other means such as e-mail with acknowledgement of receipt, which fulfils the conditions of written form.

Any change of persons or contact details shall be notified immediately by the respective Party to the Coordinator. The address list shall be accessible to all Parties.

11.4. Assignment and amendments

Except as set out in Section 8.3, no rights or obligations of the Parties arising from this Consortium Agreement may be assigned or transferred, in whole or in part, to any third party without the other Parties' prior formal approval. Amendments and modifications to the text of this Consortium Agreement not explicitly listed in Section 6.3.1.2 require a separate written agreement to be signed between all Parties.

11.5. Mandatory national law. Nothing in this Consortium Agreement shall be deemed to require a Party to breach any mandatory statutory law under which the Party is operating.

11.6. Language

This Consortium Agreement is drawn up in English, which language shall govern all documents, notices, meetings, arbitral proceedings and processes relative thereto.

11.7. Applicable law

This Consortium Agreement shall be construed in accordance with and governed by the laws of Belgium excluding its conflict of law provisions.

11.8. Settlement of disputes

The parties shall endeavour to settle their disputes amicably.

WIPO Mediation Followed, in the Absence of a Settlement, by WIPO Expedited Arbitration

Any dispute, controversy or claim arising under, out of or relating to this Consortium Agreement and any subsequent amendments of this Consortium Agreement, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be submitted to mediation in accordance with the WIPO Mediation Rules. The place of mediation shall be Brussels unless otherwise agreed upon. The language to be used in the mediation shall be English unless otherwise agreed upon.

If, and to the extent that, any such dispute, controversy or claim has not been settled pursuant to the mediation within 60 calendar days of the commencement of the mediation, it shall, upon the filing of a Request for Arbitration by either Party, be referred to and finally determined by arbitration in accordance with the WIPO Expedited Arbitration Rules. The place of arbitration shall be Brussels unless otherwise agreed upon. The language to be used in the arbitral proceedings shall be English unless otherwise agreed upon.

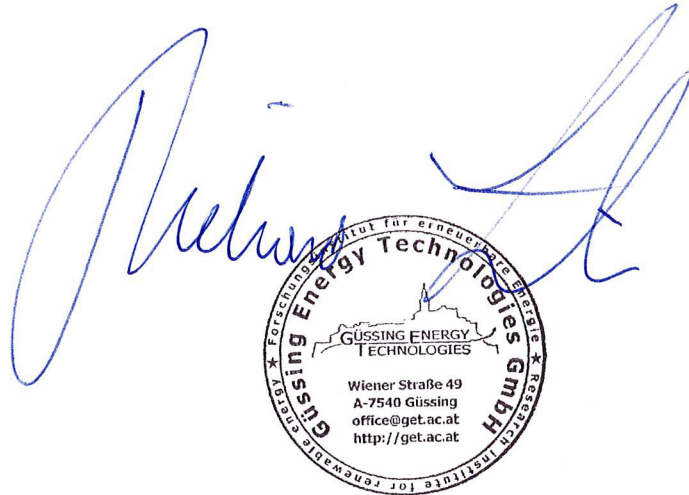
12. Section Signatures

AS WITNESS:

The Parties have caused this Consortium Agreement to be duly signed by the undersigned authorised representatives in separate signature pages the day and year first above written.

GÜSSING ENERGY TECHNOLOGIES

Signature



A handwritten signature in blue ink is written over a circular stamp. The stamp contains the following text: "Güssing Energy Technologies GmbH" around the top edge, "Forschungsinstitut für erneuerbare Energie" around the bottom edge, and "GÜSSING ENERGY TECHNOLOGIES" in the center. Below the company name, the address "Wiener Straße 49", "A-7540 Güssing", email "office@get.ac.at", and website "http://get.ac.at" are listed.

Name DI Dr. Richard Zweiler
Title President
Date 13.06.2017

FUNDACIO INSTITUT DE RECERCA EN ENERGIA DE CATALUNYA (IREC)

Signature(s)



The image shows a handwritten signature in blue ink, consisting of several loops and a long horizontal stroke, written over the IREC logo. The logo itself is blue and features the word "IREC" in a large, bold, sans-serif font. Below "IREC", there is smaller text in two lines: "Institut de Recerca en Energia de Catalunya" and "Gatalunya Institute for Energy Research".

Name: Jaume Marfà
Title: Economic Director
Date 09.02.2018

CONSORZIO PER LA RICERCA E LA DIMOSTRAZIONE SULLE ENERGIE RINNOVABILI

Signature(s)

David Chiaramonti



Renewable Energy Consortium for Research and Demonstration
Consorzio per la Ricerca e la Dimostrazione sulle Energie Rinnovabili
presso Azienda Agricola Villa Montepaldi, s.n.c.
Via di Mucciana, 25 - 58026 SAN CASCIANO V.P. (FIRENZE)
Partita IVA 06099990480

Name(s)

Title(s)


Date 13.06.2017

DAVID CHIARAMONTI
PRESIDENT

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

Signature(s)

Florence LAMBERT
Directeur du LITEN



Name(s)

Title(s)

Date 13.06.2017

JOHNSON MATTHEY PLC

A handwritten signature in purple ink, appearing to read 'E. Rowsell'.

Signature(s)

**Johnson Matthey
Public Limited Company**

Name(s) Elizabeth Rowsell
Title(s) Director JMTC

Date 05.03.2018

SKUPINA FABRIKA RAZISKAVE IN RAZVOJ D.O.O.

Signature(s)


s k u p i n a
FABRIKA
SKUPINA RAZISKAVE IN RAZVOJ D.O.O.
Radomerje 14 L / SI- 9240 Ljutomer

Name(s) BLAŽ SUNKO
Title(s) CEO
Date 13.06.2017



POLITECNICO DI TORINO

Signature

A handwritten signature in blue ink, written over a horizontal line. The signature is stylized and appears to be "Paolo Fino".


Name Prof. Paolo Fino

Title Head of Department of Applied Science and Technology

Date 07/02/2018

TECHNISCHE UNIVERSITÄT WIEN

Signature(s)

A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line.

Univ.Prof. Dipl.-Ing. Dr.techn. Johannes Fröhlich
Vicee Rector for Research and Innovation

Technische Universität Wien
Vizekanzler für Forschung & Innovation
1040 Wien, Karlsplatz 13

Name(s)

Title(s)

Date 13.06.2017

BIOENERGY 2020+ GMBH

BIOENERGY 2020+ GmbH
A-8010 Graz, Inffeldgasse 21 b

Signature(s)

Name(s)

Title(s)

Date 13.06.2017

INSTYTUT CHEMICZNEJ PRZEROBKİ WĘGLA

Signature(s)

Instytut Chemicznej Przeróbki Węgla

Z-ca Dyrektora ds. Badań i Rozwoju
dr hab. inż. **Jarosław Zuwała**
prof. nadzw.

Name(s) Jarosław Zuwała
Title(s) R&D Deputy Director
Date 13.06.2017

Instytut Chemicznej Przeróbki Węgla
Kierownik Działu Planowania
i Finansów
Główny Księgowy
mgr **Barbara Kapryan**

Barbara Kapryan
Main Accountant

BETA RENEWABLES SPA

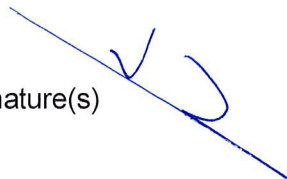
A handwritten signature in blue ink, appearing to be 'Dario Giordano', written over the printed text 'Signature(s)'.

Signature(s)

Name(s) DARIO GIORDANO
Title(s) CEO
Date 13.06.2017

ATMOSTAT

Signature(s)

A handwritten signature in blue ink, consisting of a stylized 'V' followed by a loop, written over a horizontal line.

Name: BOUCHARD Olivier
Title(s) President
Date 13.06.2017

CENTRO RICERCHE FIAT SCPA



Signature(s)

CRF
SOCIETÀ CONSORTILE PER AZIONI
UN PROCURATORE
(D.SCA M. ONIDA)

Name(s) Maria ONIDA
Title(s) Public Funding Manager
Date 13.06.2017

R2M SOLUTION SPAIN SL

Signature



Name Tatiana Loureiro
Title Managing Partner
Date 13.06.2017

Attachment 1: Background included

According to the Grant Agreement (Article 24) Background is defined as “data, know-how or information (...) that is needed to implement the action or exploit the results”. Because of this need, Access Rights have to be granted in principle, but Parties must identify and agree amongst them on the Background for the project. This is the purpose of this attachment.

GÜSSING ENERGY TECHNOLOGIES GMBH

As to Güssing Energy Technologies, it is agreed between the Parties that, to the best of their knowledge (*please choose*),

No data, know-how or information of Güssing Energy Technologies GmbH shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

FUNDACIO INSTITUT DE RECERCA EN ENERGIA DE CATALUNYA (IREC)

As to FUNDACIO INSTITUT DE RECERCA EN ENERGIA DE CATALUNYA (IREC), it is agreed between the Parties that, to the best of their knowledge,

The following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions, shall be as mentioned hereunder:

IREC shall grant Access Rights only to proprietary Background developed by the Advanced Materials for Energy Area. Nevertheless, IREC hereby explicitly excludes from Access Rights:

All Background that has been developed by other areas and technological development units projects of IREC.

All Background that has been developed by IREC in the frame of other projects in collaboration with third parties, independently of the type of project or funding.

All Background that is not directly related with the work tasks of IREC in the Project and the Project objectives, as specified in Annex I to the EC-GA.

All Background to which IREC cannot grant Access Rights due to a third party agreement and all Background owned by third parties to which IREC has a license, even if such license is not incompatible with the granting of Access Rights. In case third party agreements require IREC to ask specific permission in order to be able to grant Access Rights, IREC shall be in no obligation whatsoever to request such permission and may chose not to request permission and refuse the granting of Access Rights or partially grant such Access Rights.

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)

This represents the status at the time of signature of this Consortium Agreement.

CONSORZIO PER LA RICERCA E LA DIMOSTRAZIONE SULLE ENERGIE RINNOVABILI

As to CONSORZIO PER LA RICERCA E LA DIMOSTRAZIONE SULLE ENERGIE RINNOVABILI, it is agreed between the Parties that, to the best of their knowledge,

The following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions, shall be as mentioned hereunder:

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)
Lab-scale HTL tests		
Laboratory test on bio-oil		

This represents the status at the time of signature of this Consortium Agreement.

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

As to CEA it is agreed between the Parties that, to the best of their knowledge,

No data, know-how or information of CEA shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)

JOHNSON MATTHEY PLC

As to Johnson Matthey Plc, it is agreed between the Parties that, to the best of their knowledge no data, know-how or information of Johnson Matthey Plc shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement)

This represents the status at the time of signature of this Consortium Agreement.

SKUPINA FABRIKA RAZISKAVE IN RAZVOJ D.O.O.

As to SKUPINA FABRIKA RAZISKAVE IN RAZVOJ D.O.O., it is agreed between the Parties that, to the best of their knowledge,

No data, know-how or information of SKUPINA FABRIKA RAZISKAVE IN RAZVOJ D.O.O. shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

POLITECNICO DI TORINO

As to POLITECNICO DI TORINO, it is agreed between the Parties that, to the best of their knowledge,

The following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions, shall be as mentioned hereunder:

Knowledge and experience in aqueous phase reforming of single organic molecules (such as, but not limited to, sugars, alcohols, acids, proteins, ..) and real polymers (alginates, cellulosic matter, ...) in batch conditions, with Platinum based catalysts (on Alumina and on Carbon)

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)

This represents the status at the time of signature of this Consortium Agreement.

TECHNISCHE UNIVERSITÄT WIEN

As to TECHNISCHE UNIVERSITÄT WIEN, it is agreed between the Parties that, to the best of their knowledge,

No data, know-how or information of TECHNISCHE UNIVERSITÄT WIEN shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

BIOENERGY 2020+ GMBH

As to BIOENERGY 2020+ GMBH it is agreed between the Parties that, to the best of their knowledge,

The following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions, shall be as mentioned hereunder:

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)
Development of methods for the production of synthetic biofuels from biomass – Project C-II-1-3	Access will be granted as necessary in every work package with our involvement	None, provided exploitation involving our background includes BE2020 on fair and reasonable conditions
FT Barrel per day plant - C20003016 (BARREL/DAY):	Access will be granted as necessary in every work package with our involvement	None, provided exploitation involving our background includes BE2020 on fair and reasonable conditions

This represents the status at the time of signature of this Consortium Agreement.

INSTYTUT CHEMICZNEJ PRZEROBK I WEGLA

As to INSTYTUT CHEMICZNEJ PRZEROBK I WEGLA, it is agreed between the Parties that, to the best of their knowledge,

No data, know-how or information of INSTYTUT CHEMICZNEJ PRZEROBK I WEGLA shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

BETA RENEWABLES SPA

As to BETA Renewables SPA, it is agreed between the Parties that, to the best of their knowledge),

No data, know-how or information of Beta Renewables shall be needed by another Party for implementation of the Project or Exploitation of that other Party's Results.

This represents the status at the time of signature of this Consortium Agreement.

ATMOSTAT

As to ATMOSTAT, it is agreed between the Parties that, to the best of their knowledge,

The following background is hereby identified and agreed upon for the Project. Specific limitations and/or conditions, shall be as mentioned hereunder:

ATMOSTAT is a subsidiary of ALCEN group, medium-sized company of one thousand and eight hundred people. ATMOSTAT is recognized for his high level in specific technologies especially for aerospace, defense and energy. Atmosstat has means of study, skills in machining, measurement, brazing, welding and in special assembly processes like diffusion welding, needed to conduct projects for manufacturing complex mechanical and electromechanical assemblies. The core role of Atmosstat in this project will be to develop and deliver modular structured reactors. Atmosstat has a great know how for manufacturing complex components like structured reactors. This know how consist in designing parts to be pilled in the canister, machining at the right size and geometry without any stripes or others superficial defects to insure good mechanical properties, definition of the HIP parameters (pressure, temperature) and more especially parameters for the two step HIP cycle for reaching good mechanical properties of the joining and moreover to control channels distortion.

Manufacturing of complex components like heat exchangers reactors will require design, machining, control, joining techniques such as HIP diffusion bonding, and welding for which know how consist in :

1. Design, machining and control of parts to be welded at the right size and geometry without any stripes or others superficial defects to insure good mechanical properties,
2. Design and manufacturing of canisters and associated tooling. Atmosstat works on the design and on the nature of the mechanical inserts to allow the fabrication of components having a special shape (especially for heat exchanger reactors). This experience and expertise enables Atmosstat team to define the nature, the size, the machining processing of the materials used for manufacturing canister and the mechanical inserts. This experience enables also Atmosstat to define the assembly tolerances, the localisation of the welding or the evacuation pipes and the sequences of the last machining operations (decanning).
3. Surface preparation (cleaning) and stacking methods. Atmosstat has developed know how on cleaning of metallic surfaces used for the fabrication of components by HIP. The metallic

surfaces can be the canister or the materials to join together (solid or powder). Atmosstat has also acquired a strong know how on the assembly sequences to limit the risk of pollution of the materials in order to favour good joining conditions. This know how includes the welding sequence of the canister, the assembly sequence of materials in the canister, the heat treatment and/or the evacuation processing of the canister and the final welding of the evacuation pipes to avoid a leak and thus a pollution of the joints.

4. Definition of optimum outgassing procedures including outgassing equipment, and materials behaviour during outgassing,
5. Leak testing of canisters and sealing of the outgassing tubes,
6. Diffusion bonding of grooved plates in one or two steps HIP without tubes. Development and mechanical characterisation of one or two steps HIP on stainless steel to stainless steel (SS/SS) joints including mock-ups fabrication and testing. The aim of this work was first to propose a HIP cycle to join in one step SS/SS and secondly to propose a HIP cycle to join in two steps SS/SS. The influence of high temperature HIP cycle has been carefully studying and the subsequent grains growth and modification of the mechanical properties of the SS. Moreover the strength of SS/SS junction performed by one or two steps HIP has been analysed for different HIP cycles. This works described also machining of plates and distortion of the channels after Hipping. Definition of HIP cycles to join by diffusion materials with different chemical compositions and to improve or modify the mechanical properties of the materials. Atmosstat studies the impact of HIP joining cycles on the mechanical behaviour of materials. This experience enables Atmosstat teams to adapt and to transpose the HIP cycles investigated in small HIP vessel to industrial scale.
7. Bending process and heat treatments of bend tubes to allow further HIP joining without cracks,
8. Diffusion bonding of grooved plates on straight and bent tubes,
9. Definition of optimum HIP parameters (temperature, time and pressure) or combined welding and HIP joining,
10. Definition of post-HIP heat treatments to restore the appropriate mechanical properties of materials,
11. Removal techniques for canister and tooling,
12. Use of powder to help for some critical joining geometries or to perform a double confinement joint. Powder confinement for the fabrication of solid/powder components. Atmosstat in collaboration with CEA has developed a strong know how on the fabrication of complex components constituted by powder and solid materials. The use of powder metallurgy is an effective mean to reduce the machining cost because powder can fill all the clearance between the solid materials that could not be taken-up by the distortion of the solid materials during the HIP cycle. The powder can be used also to make a continuous joint between two solid materials. In this case the powder has to be contained in a special location.
13. Use of interlayers like diffusion barrier to facilitate decanning, to avoid chemical reactions, formation of intermetallic compounds or to accommodate stress, Interlayers or diffusion barrier to weld by diffusion materials having different chemical composition. Atmosstat in collaboration with CEA has developed a strong know how on the fabrication of bi material joints when materials to join can form intermetallic compounds leading to a brittle junction or to reduce the diffusion welding temperature of the HIP cycle to improve the mechanical properties of the materials. Atmosstat has also a good experience in the field of diffusion barrier to avoid chemical reactions or welding between two different materials at high temperature and to favour the decanning operations.

Use of finite element calculations to define acceptable clearance, ensuring good pressure transmission on all interfaces to be welded, providing the squeeze of different parts among themselves and with the container (differential thermal expansion between different materials), verify that the residual stresses or strains are acceptable,

Describe Background	Specific limitations and/or conditions for implementation (Article 25.2 Grant Agreement)	Specific limitations and/or conditions for Exploitation (Article 25.3 Grant Agreement)
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This represents the status at the time of signature of this Consortium Agreement.

CENTRO RICERCHE FIAT SCPA

As to CENTRO RICERCHE FIAT SCPA, it is agreed between the Parties that, to the best of their knowledge, no data, know-how or information of CENTRO RICERCHE FIAT SCPA shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

R2M SOLUTION SPAIN, S.L.

As to R2M Solution Spain, S.L., it is agreed between the Parties that, to the best of their knowledge, no data, know-how or information of R2M Solution Spain, S.L. shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

Attachment 2: Accession document

ACCESSION

of a new Party to

[Acronym of the Project] Consortium Agreement, version [..., YYYY-MM-DD]

[OFFICIAL NAME OF THE NEW PARTY AS IDENTIFIED IN THE Grant Agreement]

hereby consents to become a Party to the Consortium Agreement identified above and accepts all the rights and obligations of a Party starting [date].

[OFFICIAL NAME OF THE COORDINATOR AS IDENTIFIED IN THE Grant Agreement]

hereby certifies that the consortium has accepted in the meeting held on [date] the accession of [the name of the new Party] to the consortium starting [date].

This Accession document has been done in 2 originals to be duly signed by the undersigned authorised representatives.

[Date and Place]

[INSERT NAME OF THE NEW PARTY]

Signature(s)

Name(s)

Title(s)

[Date and Place]

[INSERT NAME OF THE COORDINATOR]

Signature(s)

Name(s)

Title(s)

Heat-to-Fuel Consortium Agreement, version a

Attachment 3: List of Third Parties for simplified transfer according to Section 8.3.2.

Linked third party of POLITO (IIT)

PARTY 7

FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA
Via Morego 30
16163 Genova - Italy

Heat-to-Fuel Consortium Agreement, version a

Attachment 4: Identified Affiliated Entities according to Section 9.5]

For Beta Renewables S.p.A., MG Finanziaria S.p.A. and all direct and indirect subsidiaries of Beta Renewables S.p.A.

For R2M Solution Spain, S.L., the company R2M Solution s.r.l is an affiliated entity.