

# SET4BIO

## RENEWABLE FUELS AND BIOENERGY FOR A LOW-CARBON EUROPE - ACCELERATING THE IMPLEMENTATION OF THE SET-PLAN ACTION 8

Horizon 2020, Grant Agreement no. 884524

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**Work Package (WP): 2 - Industry Involvement and commitment**  
**Task: 2.1 - Industry Stakeholder Map according to categories of IP8 Annex II value chains and pathways and need assessment**

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## EXECUTIVE SUMMARY

This document, *D2.2 Report on industry stakeholder need and gap assessment*, is part of Work Package 2 (WP2 - Industry Involvement and commitment) and includes procedures and criteria that will be followed for the processing of personal data of project participants. This deliverable aims to evaluate the stakeholder activities, which are more likely to be implemented in order to target the IWG and SET4BIO resources astutely. In this regard, the stakeholder database was analysed in order to identify the gaps regarding the value chains and pathways addressed within the Implementation Plan (IP). The need assessment was carried out via a questionnaire, which was sent out to stakeholders from the stakeholder list, showing that 52% of the respondents are familiar with the SET-Plan. The interviewees stated that they are carrying out the 13 R&I activities mainly as demonstration and development in the following categories: Advanced Biofuels, Other renewable liquid and gaseous fuels, Renewable Hydrogen, Bioenergy and Intermediate Bioenergy Carriers. There is still a lot of potential for scale-up, especially in the category of bioenergy. Further feedback from interviewees is needed to provide a solid and meaningful need and gap assessment as mainly research institutes and organisations answered the survey, but the SET4BIO project mainly aims to address industry players. If required, this document will be updated.

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### Statement of Originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

### Disclaimer of warranties

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## Introduction

The SET4BIO database was compiled by utilising the already established ETIP Bioenergy database, a project also carried out through the FNR. The database was constructed with the main focus of obtaining coordinates of key industry actors and associations working directly with renewable fuels, biofuels and bioenergy, supporting the main aim for the SET4BIO project to activate relevant industrial players to get involved in the SET Plan.

The overall objective of the SET4BIO project is to support the execution of the Implementation Plan on, “Bioenergy and Renewable Fuels for Sustainable Transport” (IP8). Therefore, stakeholders were grouped into categories following the approach of the 13 R&I priorities defined within this IP. These activities should assist in achieving the targets set for renewable fuels, bioenergy and intermediate bioenergy carriers, as predetermined in the Declaration of Intent (DoI8). By categorising industry stakeholders according to these 13 R&I activities, SET4BIO can assess how each stakeholder can adhere to the different categories in a productive way.

This assessment will provide guidance in terms of which activities are more likely to be implemented, and therefore, create an idea of how the resources of the IWG and the SET4BIO project can be targeted wisely. In order to address the stakeholders adequately and to demonstrate the importance of their contribution to the SET4BIO project, a need and gap assessment was carried out. The need assessment was based on desk-research and organisational profiling of the list of stakeholders from the SET4BIO database. The need assessment was achieved through the creation and dissemination of a short questionnaire. As this will be an ongoing task, a description of future actions on how the need assessment will be carried out is given in section 2.6.

### 1. Profiling and informed consent

In order to categorise the organisations according to the different R&I activities of the IP8, the size of the company, motivation, future goals, as well as their planned contribution to the Implementation Plan, were estimated through desk research. However, main results of the profiling were obtained through the questionnaire, which only required 5-10 minutes to complete. The questionnaire was located on a digital platform and the link to the survey was sent out by email. It was foreseen that the questionnaire would harness results such as exact R&I activities of the stakeholders and determine which stakeholder categories are predominantly represented and in which sector most industries are active in (e.g. fuel/energy, transport, etc.).

Profiling served as the main component of the need assessment, due to the fact that without the help of stakeholders providing determinations regarding their individual company, no concrete statement can be made. When executing the survey, care was taken to ensure that no confidential information that the stakeholders/interviewees have not consented to is published or passed to third parties. The findings and results shall support the IWG Action 8 with their future activities.

The survey was designed in such a way that respondents could only take the questionnaire after providing approved consent (Annex I, p. 11). In two separate questions, the interviewees were asked whether their company/institution is interested in participating in international research

and demonstration projects in its respective area, as well as if they are interested to receive more information about the SET4BIO Innovation Challenge.

## 2. Industry stakeholder need and gap assessment

### 2.1 Stakeholder data base

The SET4BIO Industry Stakeholder Database mainly focuses on companies from the renewable fuel, biofuel and bioenergy sector. The database was comprised of stakeholders from the ETIP Bioenergy project ETIP-B-SABS II, an FNR coordinated H2020 project also working towards the targets highlighted within the IP8. The SET4BIO project was able to utilise this database by searching key words such as “biofuels” and “bioenergy”. Further to that biofuel and bioenergy companies, which are BBI Full Members<sup>1</sup>, were predetermined to be a part of the SET4BIO database and are included therein. Therefore, the stakeholders found according to these assessments were collected in an excel sheet under different categories, according to which they can be individually filtered.

The SET4BIO database contains a very specific structure, and can be summarised as follows:

- **Column One:** Contains the name of the stakeholder
- **Column Two:** Indicates the country where the stakeholder is located
- **Column Three:** Defines the R&I activities of the stakeholder according to IP8
- **Column Four:** The company size is determined (if applicable). Here, a distinction is made between SMEs (companies with less than 250 employees), mid-sized enterprises (companies with 250 to 2500 employees) and large industries (companies with more than 2500 employees).
- **Column Five:** Contains the specific sector in which the company operates. The sector choices are fuels/energy, systems/plant construction, transport, primary production/feedstock and manufacturer motors/powertrain/motor vehicles.
- **Column Six:** The stakeholder category is described. Here, a distinction is made between industry, research organisation/university, investors/ finance (private), NGO, association/network, public authority, consultancy, retail & service.
- **Column Seven:** This final column indicates the engagement format of the stakeholder. Specifically, indicating which activity they will be asked to contribute to i.e. the innovation challenge, a brokerage event, a national workshop, a workshop in Brussels or an e-newsletter.

Annex I contains a figure of the above mentioned SET4BIO stakeholder database.

### 2.2 Data collection

Data is stored on the project specific SET4BIO site of the platform Alfresco, which is hosted by the FNR. The SET4BIO project consortium has access to the website, and a secure username and password are issued for each member. This allows the data access to be limited within the project. Additionally, the lead project partner possesses even more control, by being able to choose the amount of accessibility each partner will receive. This was carried out as a preventative measure, so that project members without legitimate cause to view certain data, will not have access to it. The Task and WP leaders will also have control over data respective to their tasks and can administer access when necessary.

Researchers who are granted access to the data must be cautious when reviewing and processing

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<sup>1</sup> [Full Members | Bio-Based Industries Consortium](https://biconsortium.eu/membership/full-members): <https://biconsortium.eu/membership/full-members>

it. Special attention should be given to data that will be freely accessible, such as in newsletter publications or publications on the projects’ website. For example, data used in anything published publicly should be reviewed in such a way that it is ensured that there will not be any negative consequences. This is in terms of the data of the participants of the task, and taking great care to protect the participants’ identity of affiliation, organization, or any other external entity.

As FNR is the host of the Alfresco platform used within the project, the data will be stored on servers in Germany, thus complying with GDPR and preventing the data from being shared with countries outside of the EU where there’s no jurisdiction for the GDPR.

### 2.3 Need assessment

In order to be able to address the industry stakeholders in the project database, and to adequately demonstrate the value of their contribution to SET4BIO, FNR performed a *Need assessment* and *Gap analysis*. The need assessment addressed questions such as: what do stakeholders see as motivation? What can we offer? Under which circumstances will they contribute to the IP8? How exactly will they contribute?

A detailed email was composed as a first step of this process. This was done in order to inform the stakeholders about the project, while simultaneously describing what the project is looking for and what it offers (like easier access to funding, the possibility of establishing important contacts and quick access to helpful information regarding changes in policy and supporting programmes). A link to the questionnaire was included in the email and sent out to the entire SET4BIO industry stakeholder list/database of 745 entries. An in detail evaluation of the results from the need assessment can be found in the section below.

### 2.4 Evaluation of the survey

The SET4BIO project received 38 responses to the need assessment survey from over 14 different countries, from a range of different categories. An evaluation of the quantitative elements of the survey is demonstrated in the tables below. A comprehensive list of the 13 research and innovation (R&I) activities in which the participants of the survey could choose from can be found here: [https://setis.ec.europa.eu/system/files/setplan\\_bioenergy\\_implementationplan.pdf](https://setis.ec.europa.eu/system/files/setplan_bioenergy_implementationplan.pdf)

Table 1: Quantitative results - SET4BIO Need assessment survey

<u>Countries that participated (14):</u>	<u>Company size assessment:</u>	<u>Sector evaluation:</u>	<u>Stakeholder category:</u>
Austria, Belgium, Bulgaria, Croatia, Denmark, Finland, Germany, Hungary, Italy, Netherlands, Poland, Slovenia, Spain, Sweden	<ul style="list-style-type: none"> <li>• 26 SME’s</li> <li>• 6 Mid-cap</li> <li>• 5 large industries</li> </ul>	<ul style="list-style-type: none"> <li>• 23 Fuel/Energy</li> <li>• 4 System/Plant construction</li> <li>• 4 Primary Production/Feedstock</li> <li>• 1 Transport</li> <li>• 2 Manufacturer motors</li> <li>• 9 Others</li> </ul>	<ul style="list-style-type: none"> <li>• 19 Research/Organisation</li> <li>• 11 Industry</li> <li>• 4 Association/Network</li> <li>• 2 Consultant</li> <li>• 2 NGO</li> <li>• 1 Public authority</li> </ul>

<u>Companies familiar with the SET-Plan:</u> <ul style="list-style-type: none"> <li>• 20 yes,</li> <li>• 16 no</li> <li>• 2 Very familiar</li> <li>• 18 familiar</li> </ul>	<u>Company/institutions that carry out own R&amp;D activities:</u> <ul style="list-style-type: none"> <li>• 30 yes</li> <li>• 7 no</li> </ul>	<u>Companies interested in participating in international research or demonstration projects in its respective area:</u> <ul style="list-style-type: none"> <li>• 32 yes</li> <li>• 3 no</li> </ul>	<u>Companies interested to receive more information about SET4BIO:</u> <ul style="list-style-type: none"> <li>• 35 yes</li> <li>• 3 no</li> </ul>
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Table 2: Company categorisation - 13 research and innovation (R&I) activities

Advanced biofuels	<ul style="list-style-type: none"> <li>• 16 Development</li> <li>• 9 Demonstration</li> <li>• 9 Scale-up</li> </ul>
Other renewable liquid and gaseous fuels	<ul style="list-style-type: none"> <li>• 14 Development</li> <li>• 10 Demonstration</li> <li>• 8 Scale-up</li> </ul>
Renewable Hydrogen	<ul style="list-style-type: none"> <li>• 14 Development</li> <li>• 7 Demonstration</li> <li>• 6 Scale-up</li> </ul>
Bioenergy	<ul style="list-style-type: none"> <li>• 13 Development</li> <li>• 10 Demonstration</li> <li>• 4 Scale-up</li> </ul>
Intermediate bioenergy carriers	<ul style="list-style-type: none"> <li>• 12 Development</li> <li>• 8 Demonstration</li> <li>• 6 Scale-up</li> </ul>

The qualitative element of the questionnaire maintained a specific focus on assessing how individual stakeholders would contribute to the IP8, and to what extent they could foresee doing so. The question: “How and under which circumstances can your company/institution contribute to the IP?” resulted in a broad range of results and opinions, whereas some answers were more detailed/specific than others. In the area of more condensed responses, a few companies listed possible contributions such as:

- *Demonstration plant and engineering expertise*
- *Renewable energy, Renewable fuels and bioenergy, sustainable transport expertise*
- *As a research partner in funded projects*
- *Support/ co-develop new energy technologies, demonstration and scale-up engineering, equipment procurement and construction capabilities/expertise.*
- *Provide technological know-how to companies that wish to invest in bioenergy facilities*

Some companies took the opportunity of the open-ended question to voice their dissatisfaction of the SET- Plan IP8, and provided input regarding how to improve the procedures of the SET-Plan initiative. These results are important in order to determine the opinion of relevant professionals within the sector that work towards reaching the targets outlined in the DoI8. One example can be summarised saying that “the SET-Plan is dissatisfactory” in terms of its ability to bring biofuels into the market - also due to conflicts amongst stakeholders who are supposed to support the SET-Plan IP 8 implementation.

In addition to these responses, many companies answered the question by providing specific contributions they could individually make towards specific categories of the 13 R&I activities. Some companies touched on single specific activities, whereas some included suggestions for more than one. These more detailed responses can be outlined as:

- *By developing concerted policy to synchronise demand (energy) and supply (agriculture/forestry)*
- *By developing novel nanomaterials for energy solving problems.*
- *By providing feedstock and turnkey solutions for biomass utilisation projects: from miscanthus biomass plantations establishment and energy farming to vertically integrated feedstock supply chains*
- *Providing expertise on lingo-cellulosic yeast for 2<sup>nd</sup> generation ethanol and can help with demonstration and scale-up*
- *Providing expertise (R&D, technologies, catalysts) combined to its commercial experience for implementing new technologies using renewable feedstocks. Find below a selection of ongoing activities to give you a clearer idea:*
  - *Standard biofuels: we have significant experience with designing/revamping HVO and SAF plants as well as commercial references (UPM, Preem, SkyNRG, HollyFrontier, etc.) using a wide range of feedstocks (from fatty-acid based feedstocks to crude tall oil). Co-processing in hydroprocessing units has also been a strong activity for us for many years.*
  - *Advanced biofuels: we have been working on advanced biofuels (upgrading of pyrolysis oils, bio-oils, FT products, etc.) for more than 10 years now and collaborate with various academic and research groups worldwide, including through Horizon 2020 projects.*
  - *H<sub>2</sub> and e-fuels: we have been developing technologies within renewable and green H<sub>2</sub> for some time now (SOEC for green H<sub>2</sub>) and we are strongly focusing on e-methanol and e-NH<sub>3</sub> these days. We are involved in several demo projects (Liquid Wind, Danish project with Ørsted, Copenhagen Airports, A.P. Moller - Maersk, etc.)*
  - *Chemical recycling: upgrade of plastic pyrolysis oil is a topic of great interest for us too and we have been working on this for more than 5 years. We are involved in designing several upgrading units (with SABIC for example).*
  - *Biochemicals from biomass: We have spent significant resources in R&D to develop technologies to produce chemicals from sugar for example and collaborated with various players such as Braskem to develop demo units.*

To summarise these findings in a more quantitative way, around 52% of the respondents stated that they were familiar with the SET-Plan, while 78% carry out their own R&D activities. Around 92% of respondents stated that they want to know more about the SET4BIO project, which demonstrates that the aim of the project (to support the SET-Plan) is of great importance to those that participated in taking the survey. This was further confirmed by the information provided by stakeholders on how they can support the implementation of the SET-Plan. As the stakeholders were asked to categorise their companies according to the 13 R&I activities of IWG8, a more detailed description can be found in the following chapter. However, it is important to remember that only 5.18% of stakeholders that received the survey actually responded. Due to the low response rate, the significance of the need assessment is not very strong. Measures to improve this rate are described in section 2.6.

## 2.5 Gap analysis

In parallel, the project database was analysed to determine gaps regarding the value chains and pathways addressed by the IP8. However, since exact information can only be obtained based on the survey, online research (mostly visiting the stakeholders' website) could only provide a rough insight. Therefore, the gap analysis focuses mainly on the survey's results.

Overall, the responses received were from those very active within the 13 R&I activities, who are mostly responsible for carrying out development activities. However, it must be stated that 50% of the respondents are active in the research/organisation category, while 29% are from industry. Contributions of more companies from the industrial sector are desirable and necessary for an active implementation of the SET-Plan, which was also something requested by those who participated in the survey. Companies that are familiar with the SET-Plan and carry out any of the 13 R&D activities are of great importance, as they serve as role models and consultants to other companies. By evaluating the results of the survey it can be determined that stakeholders already take part in many of the 13 R&I activities established within the IP. It can also be determined that development in any of the categories (Advanced Biofuels, Other renewable liquid and gaseous fuels, Renewable Hydrogen, Bioenergy and Intermediate Bioenergy Carriers) may only increase following actual demonstrations within those fields. "Scale-up" was the option chosen the least out of all 13 R&I activities across the board, with the lowest being in Bioenergy. Development was shown to be the area where stakeholders are most active, with the highest number being in Advanced Biofuels (see Table 2). However, the results for the option "Scale-up" are in so far not completely helpful as the respondents are mainly from the research sector and associations. Industrial stakeholders or stakeholders with real scale-up experience and capacity are not sufficiently represented.

The low response rate to the survey puts limits to a sound quantitative analysis of the answers received. It can be estimated that stakeholders already familiar with the SET-Plan were more likely to respond than others. Also the way the R&I activities are structured in the Action 8 Implementation Plan makes the gap analysis challenging. A detailed analysis would require not only the interest of a stakeholder in an area or the number of projects conducted, but also the amount of budget, personnel years and investments in a specific value chain. A few responses to the survey provided at least indications in this direction. However, these questions are addressed in WP 1 of SET4BIO and first results are available on the SET4BIO website<sup>2</sup>.

A recent publication touching this question has been prepared by the Joint Research Centre of the European Commission in 2019, as part of the Low Carbon fuel Observatory. The structure of value chains used in the report "Sustainable Advanced Biofuel: Technology Development Report<sup>3</sup>" is different but still the information is relevant.

## 2.6 Actions needed

The SET-Plan is the technology pillar of the EU's energy and climate policy. Although it was already adopted in 2008 and has been revamped in 2015, it is not well known in the broad stakeholder community. One reason for this could be that the SET-Plan communications list objectives, actions and required budgets, the SET-Plan implementation beyond working groups and conferences, however, is not taking place under one umbrella, but in the frame of a number of already existing programs which, refer to the SET-Plan only partly. So increasing awareness of the SET-Plan has to be a general objective of the European Union and Member States.

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<sup>2</sup> <https://www.etipbioenergy.eu/set4bio/outputs-and-resources>

<sup>3</sup> <http://publications.jrc.ec.europa.eu/repository/handle/JRC118317>

The survey was sent to all the stakeholders listed in the SET4BIO database. As the database contains a list of over 700 stakeholders, the number of those that participated in the need assessment was expected to be higher. In addition to the general challenge in today's business life to cope with a high number of general emails and requests, the database has three weaknesses:

- Not all 13 R&I activities are covered to the same extent.
- A significant number of the entries relates to general contacts such as [info@XXX.com](mailto:info@XXX.com), which makes it difficult that the message ends up with the person potentially interested in SET4BIO and IP Action 8.
- Although the ETIP Bioenergy database is updated constantly, there is always a risk that experts in the database change jobs, retire etc. and the contact data are not valid any more.

With this in mind, it was decided that the survey will serve the project as a continuous task. In order to obtain a more meaningful analysis of results, it will need to be based on a larger number of answers. The focus has therefore been shifted to the further, more targeted dissemination of the survey. This also serves the purpose of winning over further industrial stakeholders, since very few industrial players are available for the scale-up option so far. Clusters and associations are important to disseminate and promote the survey and the SET4BIO activities, but scaling up will need to be performed by consortia of individual industries. On the other hand the 13 R&I activities can only be tackled in a multidisciplinary and value chain approach. Actors from the respective areas (research organisations, associations and networks, consultancies, NGOs, public authorities and of course industrial companies) need to be involved.

The link to the survey has been placed on the SET4BIO website (which can be found on the ETIP Bioenergy main page). Information regarding the survey was also distributed through the ETIP Bioenergy newsletter on 7 Dec 2020, in order to reach an even broader audience in the aim of collecting more feedback.

Another approach would be to distribute the survey through the social media platforms of the individual project partners (e.g. LinkedIn, Twitter etc.). As the project will need further information specifically from industry stakeholders, these will be contacted individually. When writing to a general landing email address such as info@, a clarification will be made in the subject line or within the beginning of the text, that the email is addressed e.g. to the company's R&D department. Additional care must be taken in order to ensure that contacts who have not yet responded are not overly burdened with too frequent mailings and requests regarding the survey or the project. Finally, those that are participating in the Innovation Challenge will be asked individually to take the time to complete the survey, if they have not already done so.

Information about the exact participation and contribution of the stakeholders can be obtained by interviewing those who have already completed the survey. This can also clarify under which circumstances (e.g. credit, public support, etc.) stakeholders would participate in the implementation of the SET-Plan. In this regard it is crucial to highlight the benefits of joining the SET4BIO project.

### 3. Conclusion



Though participation in the survey was lower than what was foreseen, the results that were collected displayed a great interest from stakeholders in the SET-Plan. Around 52% of respondents were familiar with the SET-Plan, while almost 80% of the participants carry out their own R&D activities. So far, only 29% of the respondents come from the industrial sector, which is still too low in the aim of the project. SET4BIO especially aims to address and actively involve industry players with the SET Plan IWG Action 8. However, due to the low responses on the survey, it has been determined this will be an on-going task throughout the project. The work on WP2 will be updated frequently and accordingly to the continuous results the survey, and will serve as the basis for WP 2.



## Annex II - Informed consent

### Informed consent

To be in line with the General Data Protection Regulation of the EU, we would be grateful if you could follow the standard procedure of acknowledging that we have informed you about the use of your data. For that, please confirm by replying to this email using the reply button “Approve” found in this email. By accepting to support the project consortium of the SET4BIO plan to accelerate the implementation of the SET Plan Action 8, funded by the Horizon 2020 program of the European Union, I confirm I have been informed of the scientific purpose of being consulted and interviewed within the scope of the SET4BIO project, the scientific purpose being the validation of assumptions and results of the project by experts with thematic expertise in renewable fuels and bioenergy. I confirm I have been informed of the different formats the consultations and interviews can take, the possible formats being one-to-one interviews, consultations, surveys, webinars and workshops.

By accepting to support aforementioned SET4BIO project, I agree to the storage and processing of my personal data such as title and name, organization and position, email address and telephone number, organizational affiliation and organizational scope of activity as well as thematic expertise in renewable fuels and bioenergy. I have been informed of the voluntary nature of my consent to the storage and processing of my personal data. There is no legal or contractual obligation for me to release my personal data. I have the right to cancel the consent I have given at any time with effect for the future. The lawfulness of data processing until revocation shall remain unaffected by this. If I wish to cancel my consent I can address my cancellation to the person responsible for processing of my data at FNR as the coordinating partner for stakeholder engagement within SET4BIO: Henryk Stolte, Fachagentur Nachwachsende Rohstoffe e.V., Hofplatz 1, 18276 Gülzow-Prüzen, Germany, Tel.: +49 3843/6930-0; Email: [datenschutz@fnr.de](mailto:datenschutz@fnr.de); Website: [www.fnr.de](http://www.fnr.de). All data collection and processing will be carried out according to EU and national legislation and pursuant to Article 6, Paragraph 1a, and Article 7 of the General Data Protection Regulation (GDPR).



## Annex III - Survey, need and gap assessment

### SET4BIO - Concept for need assessment

Fields marked with \* are mandatory.

\* First name, Name

\* Position

I have read and accept the [Data Protection Regulations](#) as determined by the SET4BIO project.

#### 1. My company is located in

- AT - Austria
- BE - Belgium
- BG - Bulgaria
- HR - Croatia
- CY - Cyprus
- CZ - Czechia
- DK - Denmark
- EE - Estonia
- FI - Finland
- FR - France
- DE - Germany
- EL - Greece
- HU - Hungary
- IE - Ireland
- IR - Italy
- LV - Latvia
- LT - Lithuania
- LU - Luxembourg
- MT - Malta
- NL - Netherlands
- PL - Poland
- PT - Portugal
- RO - Romania
- SK - Slovak Republic

- SI - Slovenia
- ES - Spain
- SE - Sweden

**2. Given the following evaluation, how would you classify the size of your company/institution?**

- Small to medium sized enterprise (containing less than 250 employees)
- Mid-cap (250 - 2500 employees)
- Large Industry (more than 2500 employees)

Please specify other!

**3. To which sector does your company/institution mainly belong?**

- Fuel/Energy
- Systems/Plant construction
- Transport
- Primary production/Feedstock
- Manufacturer motors/Powertrain/Motorvehicles
- Other

**4. If you had to choose, which "Stakeholder Category" adheres most to your company/institution?**

- Industry
- Research/Organisation
- Investor/Finance (private)
- NGO
- Association/Network
- Public authority
- Consultancy
- Retail and Service
- Other

Please specify other!

**\* Name of the company/institution**

**5. Please check the relevant boxes pertaining to the interest (or actual activities carried out by your institution) in terms of the [13 R&I Activities of the IP8](#)**

**a) Advanced Biofuels**

- Development

- Demonstration
- Scale-up

**b) Other Renewable Liquid and Gaseous Fuels**

- Development
- Demonstration
- Scale-up

**c) Renewable Hydrogen**

- Development
- Demonstration
- Scale-up

**d) Bioenergy**

- Development
- Demonstration
- Scale-up

**e) Intermediate Bioenergy Carriers**

- Development
- Demonstration
- Scale-up

**6. Are you or is your company/ institution familiar with the [EU SET Plan](#)?**

- Yes
- No

**If yes, to what degree?**

- Familiar
- Very familiar

**7. Does your company/institution carry out their own R&D activities?**

- Yes
- No

**8. Would your company/institution be interested in participating in international research or demonstration projects in its respective area?**

- Yes
- No

**9. How, and under which circumstances can you/your institution contribute to the Implementation Plan?**

10. Would your company/institution be interested to receive more information about the [SET4BIO Innovation Challenge](#)?

- Yes
- No

**SET4BIO Website:** <https://www.etipbioenergy.eu/set4bio>

**Innovation Challenge Website:** <https://www.etipbioenergy.eu/set4bio/innovation-challenge>



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