



Bio-MeGaFuel

**Bio Methanol Production via Chemical Looping Gasification Coupled with Membrane Reactors**

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**WP1 – Management and scientific coordination**

**D1.3 Initial Data Management Plan**

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Dissemination Level	
PU	Public <span style="float: right;">x</span>
SEN	Sensitive, limited under the conditions of the Grant Agreement

## **Lists of abbreviations**

Data Management Plan: DMP  
Work package: WP  
Chemical Looping Gasification: CLG  
Techno-economic assessment: TEA  
Life-cycle assessment: LCA  
Social life-cycle assessment: s-LCA  
Grant Agreement: GA  
High Temperature Winkler: HTW®  
Thermogravimetric analysis: TGA

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## 1. Introduction

This report describes the initial Data Management Plan (DMP) of the Bio-MeGaFuel project. It specifies guidelines that the consortium partners of the project will use to manage data that is generated in the project. The DMP follows the guidelines on FAIR data - Findable, Accessible, Interoperable, and Reusable. Important aspects that are covered in the DMP are:

- Data that will be generated
- How data is handled in accordance with guidelines on FAIR data
- Which data can be shared and which data will be restricted
- Other aspects such as resource for data management, data security, ethical aspects, etc.

The DMP will evolve during the project lifetime and reflects on the data management according to the status of the project. The DMP should be seen as a “living” document, which is kept up-to-date throughout the project lifetime. Timetable for reporting the progress of DMP is shown in Table 1. Updates of the DMP are planned in project-month 24, and 48 and reports about the updates will be submitted as an integrated part of the project progress reports. The updates will describe significant changes in the project, for examples, new data, changes in consortium policies (if any), and changes in consortium partners (if any), etc.

**Table 1. Timetable for progress of DMP during the entire project lifetime**

<b>Timeline</b>	<b>Status of DMP</b>
Project-month 6	Initial DMP
Project-month 24	Updates
Project-month 48	Updates

## 2. Data summary

### 2.1. Short overview of project objectives and purpose of data generation

The Bio-MeGaFuel project targets the following key specific objectives:

- Developing gasification with oxygen carriers to maximize conversion of biogenic residues and wastes to syngas;
- Developing of membrane reactors for methanol synthesis from the produced syngas;
- Developing single-step methanol synthesis with recirculation of CO<sub>2</sub> to maximize carbon and biomass conversion;
- Exploitation and analysis of whole value chain from low-value biogenic residues and wastes to biomethanol; and
- Dissemination and communication of project results to pay a way for future research and commercial interest.

In order to fulfill the above-mentioned objectives, the project is structured into five work packages (WP), as follows:

- WP1: Management and scientific coordination
- WP2: Chemical looping gasification (CLG)
- WP3: Membrane reactors for biomethanol synthesis
- WP4: Process evaluation and sustainability analysis
- WP5: Exploitation, dissemination and communication

The purpose of data generation within the Bio-MeGaFuel project is to achieve the objectives of the project. Data is generated mostly from WPs 2-5 as significant parts of results obtained from these WPs. More details about data generated within the project are discussed in Section 2.2 and the Appendix attached to this report.

### 2.2. Types, formats, and expected size of data generated within the project

The project will generate data mostly in forms of spreadsheets, images, text documents, laboratory notebooks, reports or similar. The main types, formats as well as expected size of the generated data is summarized in Table 2. In particular about types of data, four different types are generated within the project. The total expected size of data generated within the project is estimated to be approximately 30 GB. However, this number should only be seen as a very raw estimation. More detailed information about expected size of the data is provided in updated DPMs as the project progresses and thereby more detailed information is expected to be available.

**Table 2. Summary of types, formats, and expected size of generated data**

Type	Relevant WP	Total expected size	Format
Experimental data on operational parameters and performance data for various reactor types at different operational parameters, as well as secondary data derived from original performance data	WP2 (tasks 2.3–2.5) WP3 (tasks 3.2–3.3)	10GB	Onenote, txt, csv, Excel and Word files, SW files, CAD files, instrument specific raw files, jpg, mp4, obj, stl, mpg, avi, gsa, hpf, xrdml, hxt
Experimental data on physico-chemical characterization of feedstocks, membranes and	WP2 (tasks 2.2–2.6) WP3 (task 3.1)		

chemical compounds with instrumental analysis techniques			
Computational data on reactor modelling and on full-chain process simulation with Aspen	WP2 (tasks 2.7–2.8) WP4 (task 4.1)		
Other data, including data about techno-economic assessment (TEA), data about life-cycle assessment (LCA), data about social life-cycle assessment (s-LCA), data about business analysis, etc.	WP4 (tasks 4.2–4.3) WP5 (task 5.1)	20 GB	bkp, jpg, txt, csv

### 2.3. Possible re-use of existing data

In addition to data generated within the project, the project will use data that are readily available from consortium partners and that are relevant to the focus of the project to facilitate the achievement of the project objectives. Additionally, relevant existing literature data is also reused in the project for reference and/or comparison purpose when needed.

### 2.4. Data utility

As mentioned in Sections 2.2 and 2.3, the data from the Bio-MeGaFuel project has two origins that are existing data and data generated within the project itself.

Primarily, the data will be used by the consortium partners to achieve the project objectives. Secondly, the data can be used by the consortium partners in their future research activities to further develop their expertise areas. Furthermore, the data generated within the Bio-MeGaFuel project is used by scientific community and industry in the field. This is in connection either to scientific publications that publish the project results and/or to data that are generated within the project and deposited to a data repository.

### 3. Data management within the consortium of the Bio-MeGaFuel project

A well-documented and consistently applied organization of data files and other project documentation materials of the project will facilitate consortium partners to find and thereby utilize project outputs during the project and even after the project. Some fundamentals about data management within the consortium of the Bio-MeGaFuel project are:

- A Microsoft Teams site dedicated to the project was created to store documents for the project. Under this Teams site, a well-structured folder has been created so that documents can be placed accordingly. Particularly, there are folders for different WPs. Data generated from each WP should be stored under the folder that is dedicated for the relevant WP. All consortium partners have access to the project Teams site. Teams is a workspace for collaboration between consortium partners. This facilitates the partners to store, edit and share files within the consortium.
- Naming convention for files produced within the project is applied. More details about naming convention used in the project are presented in Section 4.1. Versioning and identification of different versions are also described in Section 4.1.
- In principle, the consortium partner who generates the foreground is the owner of copyright and other intellectual property rights on data and software. All data generated within the project will be shared between consortium partners during the project through the share point on Microsoft Teams of the project and through the related Deliverables.

### 4. FAIR data

FAIR is an acronym for Findable, Accessible, Interoperable, and Reusable. According to FAIR data principles, it should be possible to find research data; there should be information about how to gain access to the data; the data should be compatible with other data; and it should be possible for data to be reused.

In general, to be able to reuse data obtained from the Bio-MeGaFuel project for new future research or for other valuable purposes for the society, first and foremost, the data need to be findable. Descriptions about data have to be in sufficient details so that data can be found. Information about how to access the data also needs to be available and information about which action the person who find the data is allowed to do once the person gains access to the data is specified by license attached to the data. The data should be in file formats that are common and well-documented so that the data can be interoperable. It is important that the data remain reusable for a long time, thus the chosen file formats should have a high probability to remain readable in future. Furthermore, digital data repositories that are chosen for depositing the project data should be certified, which provides a long-term possibility on data accessibility (e.g., data repositories that are certified according to the CoreTrustSeal).

More details about how the Bio-MeGaFuel project has planned to apply FAIR data principles are described in the following Sections 4.1– 4.4.

#### 4.1. Making data findable, including provision for metadata

In the Bio-MeGaFuel project, the following naming conventions are applied:

- For names of Deliverables that are submitted to the European Commission:

**ProjectName-WorkPackage-DeliverableNumber-ProjectMonth-TypeOfReport-PartnerAcronym-Date(ddmmyyyy)-VersionNumber**

Example: Bio-MeGaFuel-WP1-D1.3-M6-Report-RISE-28022025-v01

This name gives information that it is a report belonging to the Bio-MeGaFuel project in WP1; the report is about the Deliverable D1.3 that has deadline at project month number 6; the report is prepared by RISE; the date that the report is released is 28-feb-2025 and the report version is version 01.

- For names of documentation files such as reports and presentations produced by consortium partners and data files:

**ProjectName-WorkPackage-FileName-PartnerAcronym-Date(ddmmyyyy)-VersionNumber**

Example: Bio-MeGaFuel-WP1-Presentation about status of work package 1-RISE-25022025-final

This name gives information that it is a presentation belonging to the Bio-MeGaFuel project in WP1; the presentation is about status of WP1; the presentation is prepared by RISE; the date that the presentation is released is 25-feb-2025 and the presentation version is final.

For versioning, sequentially numbered system v01, v02, v03, etc. is used as suffix in the name of the documentation files and data files, and suffix “final” is used for final version.

Metadata is structured information about other data. To make it possible for others (i.e., both humans and computers) to find data, the data needs to be described by relevant and meaningful metadata. For each dataset generated within the project, metadata will be provided, which contains following information to facilitate FAIR data principles:

- Name of dataset
- Short description about dataset
- Date of data deposit
- Authors who are responsible for generating dataset
- Authors venues and organizations

- Date or period when data is collected
- Format of data file
- Version number
- Methods used to collect data
- Information about license attached to dataset (see below in Section 4.1)
- Information about if access restrictions are applied
- Keywords that describe subject or content of dataset to facilitate search engines
- Information about project funding: Horizon Europe funding, grant project name, project acronym, and project number that is stated in the Grant Agreement (GA)

In addition to the metadata mentioned above, auxiliary information (if any) that is needed to interpret the metadata will be included as supplementary documentation. Furthermore, within each dataset, there will be a versioning table that is similar to the versioning table placed in the front page of this current report for identification of different versions. Field labels or column headings are provided within the dataset to facilitate readers to understand the data.

The Bio-MeGaFuel project plans to deposit relevant research data that are not subjected to access restrictions (e.g., patents, intellectual properties, confidentiality, non-disclosure agreements, etc) in a data repository, most likely **4TU.Research Data** or alternatively **Zenodo**. These data repositories follow FAIR data principles. Data in the data repository **4TU.Centre for Research Data** have Digital Object Identifier DOI assigned to each dataset, allowing linking of the DOI of the dataset to the DOI of related journal publication(s). Furthermore, **4TU.Centre for Research Data** provides a menu of usage licences, preservation protocols, and access protocols for the deposited data and metadata to allow harvesting by Google and other search engines. **4TU.Centre for Research Data** is a certified data repository that has a CoreTrustSeal Approval. For the research data generated within the Bio-MeGaFuel project that is shared via the data repository, a Creative Commons Attribution International Public License (CC-BY) will be attached to the dataset. Metadata is always deposited in the data repository under a Creative Commons-Public Domain Dedication (CC0) licence.

The preliminary search keywords to facilitate finding the data are suggested to be: Bio-MeGaFuel (e.g., name/acronym of the project), chemical looping gasification, biomethanol, membrane reactors, bioenergy, biofuel, biochemical, circular economy, as well as keywords that describe specifically about the data of focus.

## 4.2. Making data openly accessible

If the generated research data are not subjected to any access restriction, they will be disseminated via the certified data repository for open access as explained in Section 4.1. Generally, data related to Deliverables that are marked as “Public” in the dissemination level will be openly accessible as by default. These data will be deposited to the data repository as soon as data is generated.

For research data related to Deliverables that are marked as “Sensitive” in the dissemination level, the research data will be deposited to the data repository after the data are presented in, for example, related scientific publications, filled patents, etc.

Metadata, however, are not sensitive and do not have any restriction. Thus, even if the research data cannot be made freely accessible yet due to above mentioned access restrictions, metadata will be deposited to the data repository to show that the research data exist and when the research data is expected to be openly accessible.

More details about data sharing from different tasks of the project are presented in the Appendix.

## 4.3. Making data interoperable

Both data and metadata should follow accepted standards. The Bio-MeGaFuel project will follow relevant metadata properties suggested by DataCite to apply for datasets generated within the project. DataCite is a recognized international non-profit organization that aims to improve data citation. The data repository **4TU.Research Data** will perform metadata checks to ensure that consistent terminology and vocabulary following FAIR data principles being used.

Furthermore, to ensure interoperability of data, the project will prioritize and prefer to use file formats that are commonly used and can be read by multiple software. The file formats and related software should be open and non-proprietary. The project will not use proprietary software if this is possible to be avoided.

#### 4.4. Increase data re-use

Data reusability means the easiness to re-use the data for further research or other purposes. In Bio-MeGaFuel project, most datasets have high reusability because no special methods or software is required to re-use the data. In those in which the formats will be not standard, the information will be converted to standard formats such as .doc, .xlsx, .pdf, .jpeg or .ppt.

Re-use will be subject to the legitimate interests of rights holders and the protection of confidentiality and personal information.

When uploading data to a repository, partners should select a license that enables access to the broadest possible audience and supports the widest range of potential uses. Exceptions may apply in cases where copyright exists, and the copyright holder's permissions do not allow such broad usage.

As previously mentioned, to increase data reusability, the data need to be described with relevant and sufficient metadata, and that both humans and computers can read the metadata so that the data can be found.

#### 5. Allocation of resources

The coordinator of the Bio-MeGaFuel project is responsible for data management in general. However, all project partners will give inputs to the DMP in the areas that are related to their roles in the project and are responsible for implementing DMP within their respective WPs.

All project documentation files and data files are stored in the Teams site of the project during the project lifetime as earlier mentioned. Furthermore, all project documentation files and data files for the entire project will be stored in the Project Documentation Platform (PDP) at Rise. This will archive project documentation files and data files for 10 years after completion of the project. The cost for storage is covered by Rise. Consortium partners have access to the PDP of the Bio-MeGaFuel project because this PDP is synchronized with the project Teams site.

In principle, the partner who generates the data is owner of the data and responsible for their data in accordance with guidelines specified in the project DMP. In addition to storing on the project share point on Microsoft Teams, data is stored on partners available internal file servers for at least 10 years. The cost for long term storage of the data is typically covered by budget from partners organizations.

Data that is deposited in the data repository **4TU.Research Data** is stored for >15 years. If the data is deposited by one of the partners of **4TU.Research Data** and does not exceed 1 Tb per year, then **4TU.Research Data** will cover the storage cost. Above 1 TB per year, the cost is € 4,50 per GB per 15 years.

#### 6. Data security

As above mentioned, Microsoft Teams is used in the project as a collaborative workspace for the consortium partners, where all project documentation files and data files are stored. The files are also stored in a SharePoint site that automatically synchronizes with the Teams site; and the files are backed by SharePoint encryption. Teams is suitable for the project involving many partners who need access to project materials. Access is restricted to individual level, which helps to prevent unauthorized access to project materials and thereby to preserve data authenticity (i.e., preventing unauthorised data modification, destruction, or disclosure, etc.). When project files are shared between the partners, the

Teams/SharePoint link attached to the files are shared instead of direct sharing of the files, which contributes to data safety.

Furthermore, data produced by partners during the project will be stored on their internal file servers. Periodical backups will be made to ensure the preservation of the data.

The data repository **4TU. Research Data** that is chosen to deposit project data is a certified data repository and has CoreTrustSeal Approval.

## 7. Ethical aspects

The consortium of the Bio-MeGaFuel project will carry out the project in line with the highest ethical standards and the applicable EU, international and national law on ethical principles. This is also in accordance with Article 14 in the GA. For processing personal data, the project consortium will follow the applicable EU, international and national law on data protection and in particular, Regulation 2016/679. As also stated in Article 15 in the GA, the personal data (if any) in the project will be:

- processed lawfully, fairly and in a transparent manner in relation to the data subjects;
- collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes;
- adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed;
- accurate and, where necessary, kept up to date;
- kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the data is processed; and
- processed in a manner that ensures appropriate security of the data.

## 8. Other issues

In accordance with Article 13 (Confidentiality and Security) of the Grant Agreement, all beneficiaries are required to maintain the confidentiality of any data, documents, or materials identified in writing as sensitive ("sensitive information") during the project's implementation and for at least the time period specified in the Data Sheet.

Standard time-limits following the project conclusion are as follows:

- Confidentiality: 5 years after the final payment.
- Record-keeping: 5 years after the final payment.

The confidentiality obligation and access restriction are no longer applied after the data are presented for example, in related scientific publications, filled patents, etc.

Classified information must be handled in compliance with applicable EU, international, or national laws on classified information, including Decision 2015/444 and its implementing rules.

## Reference

H2020 Programme Guidelines on FAIR Data Management in Horizon 2020

[https://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-data-mgt\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)

Swedish National Data Service

<https://snd.se/en>

## Appendix

WP2-Chemical Looping Gasification	Data generated within the Bio-MeGaFuel project					Possible re-use of existing data	
	Data set	Data set description	Metadata and standard (if any)	Data sharing	Related Deliverables, dissemination level (as specified in GA)	Re-used data	Purpose
2.1. Biogenic feedstock screening	N/A	N/A	N/A	N/A	D2.1, Public	Literature data about physio-chemical properties of feedstock candidates	Screening and thereby selecting biomass feedstocks which are largely available and potential for biomethanol production through CLG
2.2. Characterization of selected biogenic residues and wastes	Physio-chemical properties of selected feedstocks	Data about physical properties such as mechanical durability, bulk density, pellet length, diameter, etc. Data about chemical properties such as gross and net calorific values; moisture content; ash and	Relevant metadata will be prepared	Data is openly accessible via the data repository	D2.2, Public		

		volatile matter content; elemental compositions of carbon, hydrogen, chlorine and sulphur content; and ash composition					
2.3. High Temperature Winkler (HTW®) experiments at 500 kWth pilot plant	Gasification experiments on 500 kWth HTW pilot plant	Data about operational parameters with HTW pilot plant, and data about properties of bed material, tar, and syngas samples	Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After that, data is openly accessible via the data repository	D2.3, Sensitive		
2.4. Small scale continuous CLG tests	Gasification experiments on 1.5 kWth CLG reactor and 20 kWth CLG reactor	Data about operational parameters with CLG reactors, data about properties of bed material, compositions of tar samples, and compositions of raw syngas samples	Relevant metadata will be prepared	Data is openly accessible via the data repository	D2.4, Public	Literature data about results in CLG continuous units (syngas composition and yield, tar content, oxygen carrier behaviour, etc.)	Comparison among gasification processes
2.5. CLG experiments at 1 MWth pilot plant	Gasification experiments on 1 MWth CLG pilot plant	Data about operational parameters with 1 MWth CLG pilot plant, and data about properties of bed	Relevant metadata will be prepared	Data is openly accessible via the data repository	D2.5, Public		

		material, compositions of tar, compositions of raw syngas and composition of syngas after downstream cleaning					
2.6. Kinetic determination of selected fuels	Kinetic parameters for gasification using H <sub>2</sub> O and CO <sub>2</sub> of fuels selected in task 2.4	Thermogravimetric analysis (TGA) data and kinetic data derived from TGA data	Relevant metadata will be prepared	Data is openly accessible via the data repository	D2.6, Public	Literature data about gasification kinetics of biogenic residues.	Comparison of gasification kinetics. To be used in modelling.
2.7. Modelling of the HTW® system and validation with pilot plant test results	Modelling data of HTW® gasifier	Data about developed 1-D non-plug flow heterogeneous model, data of model validation, data about optimized design of HTW® reactor for specific biogenic fuels to produce required high-quality syngas for methanol synthesis	Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After that, data is openly accessible via the data repository	D2.7, Sensitive		
2.8. Modelling of the CLG system and validation with pilot test results	Modelling data of adapting a previously developed 1.5D numerical model for CLG system	Data about adapted 1.5D numerical model, data of model validation, data about optimized design of CLG system to produce required high-quality syngas	Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After that, data is openly	D2.8, Sensitive	Literature data about gasification.	Comparison among gasification processes. To be used in process optimization.



**WP1**  
**D1.3 Initial Data Management Plan**

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		for methanol synthesis		accessible via the data repository			
2.9. Comparison of CLG with HTW® as the gasification technology for methanol synthesis	N/A	N/A	N/A	N/A	D2.9, Sensitive		

WP3- Membrane Reactors for Biomethanol Synthesis	Data generated within the Bio-MeGaFuel project					Possible re-use of existing data	
	Data set	Data set description	Metadata and standard (if any)	Data sharing	Related Deliverables, dissemination level (as specified in GA)	Re-used data	Purpose
3.1. Development of membranes and integration with catalysts at lab scale	Properties of developed membranes	Data about physico-chemical properties of the supports and membranes, which are produced from SEM-EDX, XRD and profilometry analyses. Micro Gas Chromatography data produced from permeation measurements on single gas and gas mixtures	Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After that, data is openly accessible via the data repository	D3.1, Sensitive		
3.2. Lab-scale testing of methanol synthesis membrane reactor	Experimental results of lab-scale testing of membrane reactor under reactive conditions	Data about kinetics and stability of commercial catalyst for methanol synthesis selected in the project. Data about permeation characteristics and stability of the membrane under reactive conditions. Data from experimental test (methanol synthesis)	Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After that, data is openly accessible via the data repository	D3.2, Sensitive	IMPCA (International Methanol Producers & Consumers Association) standard for application as fuel	Comparison of quality of synthesized biomethanol to the standard

		on small-scale reactors					
3.3. Development of the membrane reactors for methanol synthesis at TRL 5	Experimental results of testing scale-up membrane reactors (TRL 5) for methanol synthesis	Data about tests in scale-up membrane reactors (TRL 5) for methanol synthesis from syngas with different compositions representing syngas from CLG, as well as from unconverted gas that is recirculated. Data about separation test and conversion efficiency of biomass and biogenic carbon to methanol in the case of not reaching full conversion of syngas to methanol	Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After that, data is openly accessible via the data repository	D3.3, Sensitive		

WP4-Process Evaluation and Sustainability Analysis	Data generated within the Bio-MeGaFuel project					Possible re-use of existing data	
	Data set	Data set description	Metadata and standard (if any)	Data sharing	Related Deliverables, dissemination level (as specified in GA)	Re-used data	Purpose
4.1. Process evaluation and optimization	Mass and energy balance of methanol production plant	Data about mass and energy balance of methanol production plant at different process configurations	Relevant metadata will be prepared	Data is openly accessible via the data repository	D4.1, Public		
4.2. Technoeconomic assessment	Economic performance of methanol production plant	Data about CAPEX, OPEX and methanol production cost at different scenarios (e.g., different feedstock types, different plant capacities, different prices of biomass and utilities, different time perspectives, etc.) as well as at various process parameters (i.e., sensibility analysis). Data about economic performance of reference scenario of producing	Relevant metadata will be prepared	Data is openly accessible via the data repository	D4.2, Public	Data about equipment costs. Data about cost of operating expenses (such as price of feedstock, price of utilities, price of other consumable materials, cost for equipment maintenance, waste handling, personnel salary, etc.)	Input for CAPEX and OPEX estimations

		biomethanol via HTW® gasification to compare with methanol production via CLG. Data about life cycle cost analysis LCCA					
4.3. LCA and s-LCA	LCA and s-LCA analysis	LCA and s-LCA data about biomethanol production process that is developed in the Bio-MeGaFuel project, and about reference conventional methanol production methods and reference biomethanol production via HTW® process. s-LCA data for reference location of biomethanol production plant	Relevant metadata will be prepared. ISO 14040 – 13044 standards are applied to perform LCA. United Nations Environment Programme (UNEP) guidelines are applied to perform s-LCA.	Data is openly accessible via the data repository	D4.3, Public	i) Relevant literature data related to or to perform LCA and s-LCA of conventional methanol production methods. ii) PSILCA database	i) comparison with biomethanol production process established in the Bio-MeGaFuel project. ii) Hot spot level of analysis for s-LCA
4.4. Comparison of TEA and LCA of process schemes based on CLG and HTW®			Relevant metadata will be prepared	Data are kept confidential at least until the data are presented in, e.g., scientific publications or patent filling. After	D4.4 and D4.5, Sensitive		



**WP1**  
**D1.3 Initial Data Management Plan**

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				that, data is openly accessible via the data repository			
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WP5- Exploitation, Dissemination	Data generated within the Bio-MeGaFuel project					Possible re-use of existing data	
	Data set	Data set description	Metadata and	Data sharing	Related Deliverables, dissemination	Re-used data	Purpose

and Communication			standard (if any)		level (as specified in GA)		
5.1. Production potential and market analysis	Production potential and market analysis for biomethanol in the EU for 2030 and 2050	Data about potential and market analysis for biomethanol produced from different feedstocks	Relevant metadata will be prepared	Data is openly accessible via the data repository	D5.1, Public	Data about current markets for production of methanol from fossil resources	Starting point for analysis of influence of biomethanol use
5.2. Current and conceptual value chains and business models	N/A	N/A	N/A	N/A	D.2, Public		
5.3. Barriers and opportunities	N/A	N/A	N/A	N/A	D5.3, Public		
5.4. End user uptake	N/A	N/A	N/A	N/A	D5.4, Public		
5.5. Dissemination and communication plan	N/A	N/A	N/A	N/A	D5.5 – D5.15, Public		
5.6. Dissemination and communication tools	N/A	N/A	N/A	N/A			
5.7. Workshop, courses and guided visits	N/A	N/A	N/A	N/A			