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REPORT

Work Package 02:

Technological and non-technological evaluation of heating and cooling from renewable energy sources.

Deliverable: D04

A quick accessible register of existing relevant technical regulations concerning the project objective.

Responsible partner:

Instytut Nafty I Gazu (INIG)

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1. Introduction

Several methods exist for creation of registers of documents. Reports and legal acts are created including collecting data in a form of “paper mode” or “electronic database systems”. Nowadays collection of documents in “paper mode” form are archival mainly, because the access is limited (they may be stored in distant places). For the time being the information science and computer technology enable creation of easily edited registers which allow for quick and easy access to data.

Oil and Gas Institute (INIG) was made responsible for creation of tool which would be used for recording Acts of Law related to REDUBAR Project. Below are presented versions of electronic registers considered by INIG as applicable plus advantages and disadvantages of each version.

Forms of electronic registers:

1. register created by text editor
2. register created using the calculation worksheet

Text editors and calculation worksheets may be used for creation of D04 registers but such possibility was rejected because of the following:

- data updating by co-partners is difficult
- each partner must have the same text editor and calculation worksheet (possibility of mistakes during conversion of data prepared in different programs)

3. Register in a form of Database available via internet.

Such register seems to be the best solution because it is readily available via internet. Detailed description of Database is shown in point 3 of a present report.

2. Database – characteristic of tool

Database is a collection of data which are electronically recorded in appropriate addresses. In colloquial language the Database means collection of data and

computer program specialized in data collection and processing. Such program (or sets of programs) is called “Database Management System (DBMS).

Databases use text data and numerical data; majority of nowadays Databases enable storage of binary data i.e. drawings, music, and so on.

Databases may be divided using data structure criterion i.e.:

1. Simple Databases (card files) – data tables are separate documents and data can not be transferred between tables; included here are telephone directory, cooking book, lists of books; all such Database are single purpose only.
2. Complex Databases – data may be transferred between tables; complex Databases use computer program language and SQL for data handing and for creation of advanced data processing tools. Complex Databases (including SQL standard) use the following simple rules:
 - all data values are simple values
 - data are recorded in two dimensional tables (colloquially called “relations”); each table has zero or more rows, and one or more columns (called “attributes”); each row includes evenly arranged columns containing values which may be different for each row.
 - After the Database is filled with data the comparison is possible between values in different columns and different tables, by integration of rows containing the same values. Such procedure enables finding relations between data and allows us to carry out the complex operations on data contained within the Database.
 - All operations are based on logic principles irrespective of the position of row i.e. one should not ask questions about rows for $x=3$ without having values of the first, third and fifth row; Complex Databases use random sequence of rows which doesn't correspond to sequence of data introduction of storage.

Databases are used for the following:

- designing of records (name, length and kind of field)
- editing (adding, removing and correcting of records)

- sorting
- searching and selection of data
- asking questions
- creation of reports
- printing

For the purposes of REDUBAR project the Database means Data Management System. Internet is required to get access to the Database. WWW Server with appropriate software is a major element of a REDUBAR project; such server is used for communication with Database and for transfer of data to user's browser; SQL language is used for communication with server and for asking questions which are next transferred to DBMS. The HTML and Java Script languages and special questionnaires are used for communications with users.

3. Database – D04: Description, Filling in data, Searching

3.1 Technical information on Database

Database was created using the SQL language.

Because the Partners involved in realization of REDUBAR project (i.e. DBI Gas-und Umwelttechnik GmbH (DBI) have to cooperate on construction of Database so they agree that the first version of Database will be installed on INIG server.

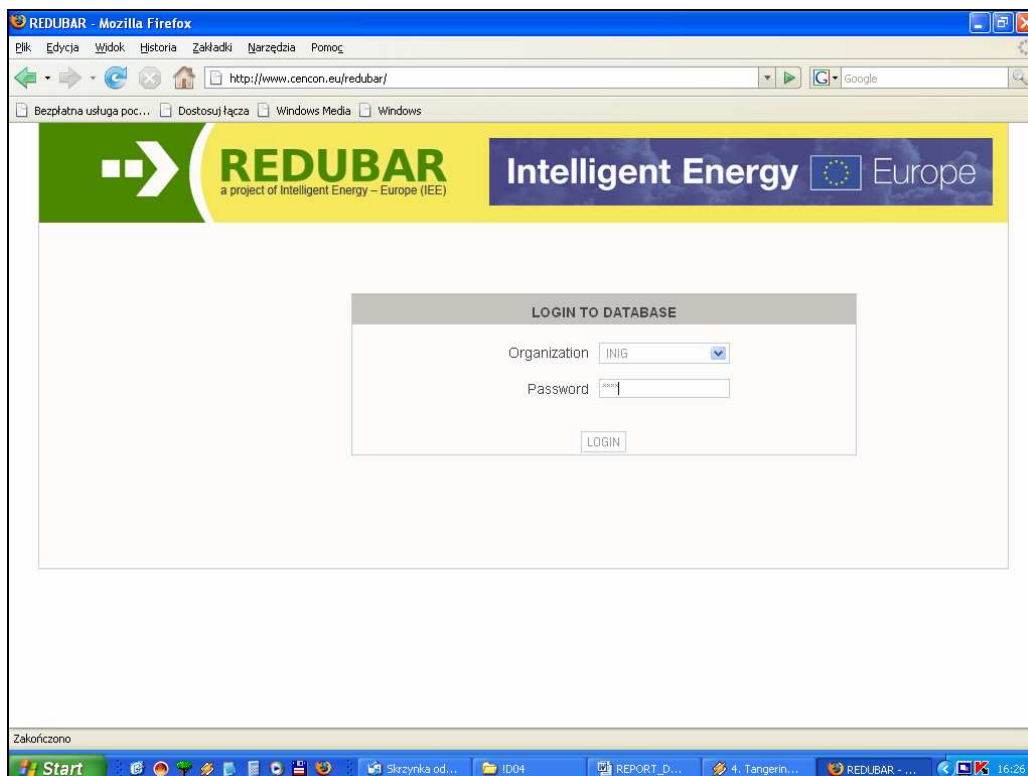
Address of Database: www.cencon.eu/redubar/

The passwords enabling access to the Database will be send to users after the base is installed at address indicated above.

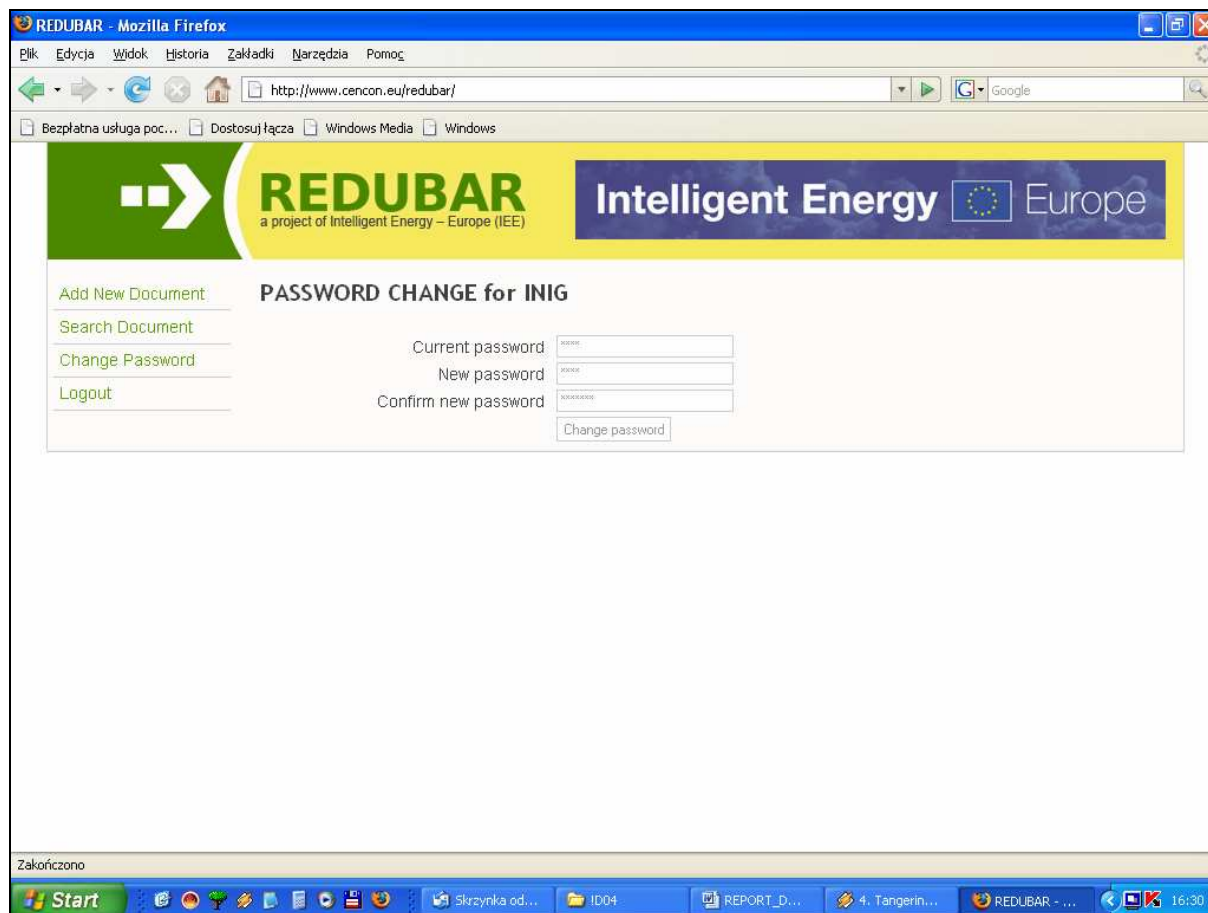
3.2 Password Change

Password which enables first login is only use for initial access to Database. Later on, the partners are advised to change the password.

1. When login, use password provided by INIG.



2. Select option **Change Password** from menu

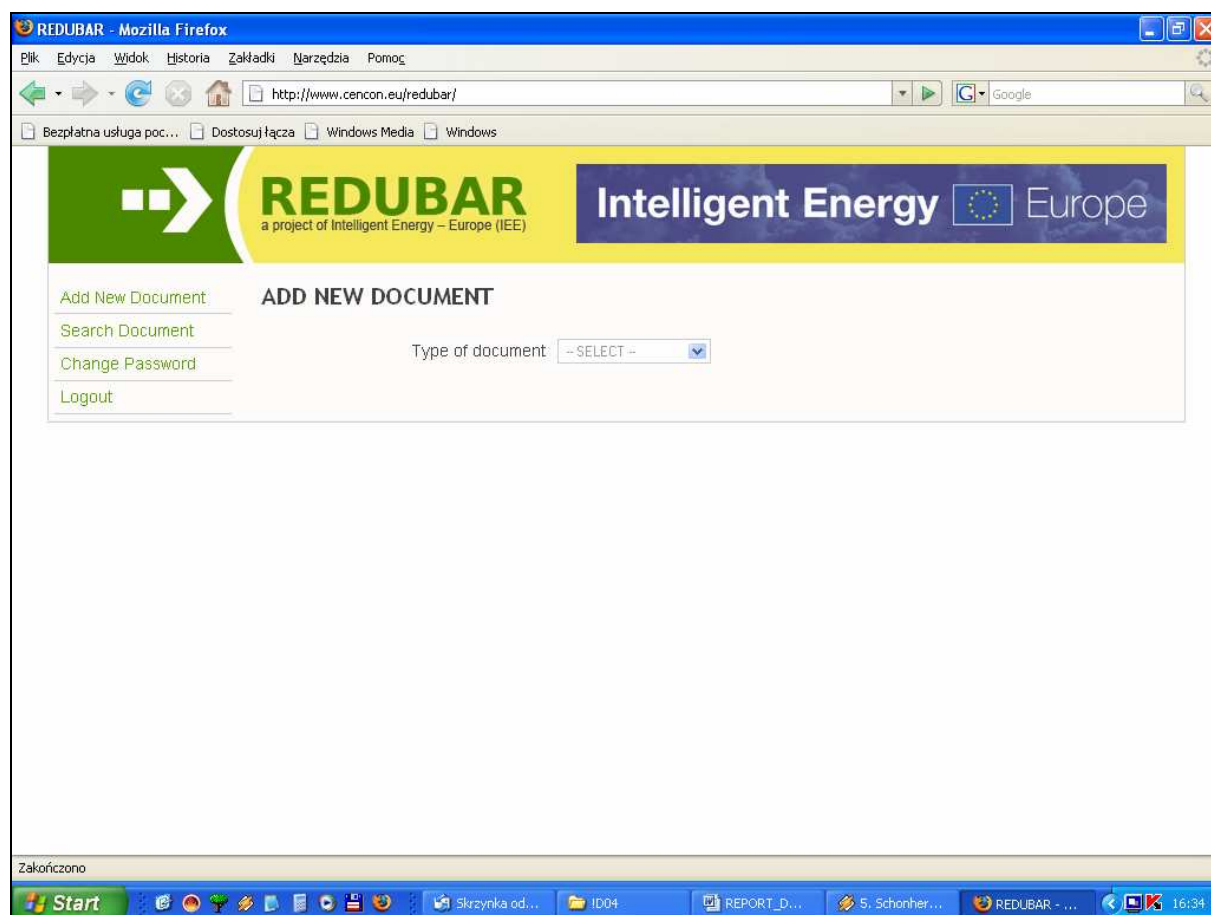


3.3 Instruction for filling – in data into Database

Database allows accounting for barriers and obstacles imposed by Legal Acts and barriers which are not related to specified Legal Act.

Procedure for filling in the data into Database is presented below:

1. Login
2. Select **Add New Document** icon if you want add new document (norm, directive) or describe Barriers and Obstacles (BaOs) not related to Legal Acts.



3. Select **Legal Document** if you want add Legal Document (norm, directive) to Database

- select type of document from the list below:
 - **directive**
 - **statute**
 - **regulation**
 - **norm**
 - **instruction**
- select countries in which a document is effective
 - **in 25 EU Level**
 - **in Country Level (see the list of countries)**
- provide translation of title of document (if official translation exists)
- provide title of document in original language

- please provide the following information in **Description** dialog box:
 - subject matter which the Legal Act is concerning
 - technical barriers and obstacles (BaOs) identified in document
 - non –technical (BaOs) identified in document

Note: click **Add New Description** if you want to add new dialogue box

- if barriers are identified in document description, indicate how difficult is elimination of barrier ;select **Influence and description of barrier if described**:
 - **Very Easy to Eliminate**
 - **Easy to Eliminate**
 - **Difficult to Eliminate**
 - **Very Difficult to Eliminate**
- click **Add** after description is introduced

4. Select option **Other** if you want to describe BaOs which are not related to any legal document
- in **Description** dialog box please provide:
- non-technical BaOs identified
 - technical BaOs identified

Note: click **Add New Description** if you want to add new dialogue box

- if barriers are identified in document description, indicate how difficult is elimination of barrier ;select **Influence and description of barrier if described**:
- **Very Easy to Eliminate**
 - **Easy to Eliminate**
 - **Difficult to Eliminate**
 - **Very Difficult to Eliminate**
- describe BaOs in **Type of barriers** box
- click **Add** after description is introduced

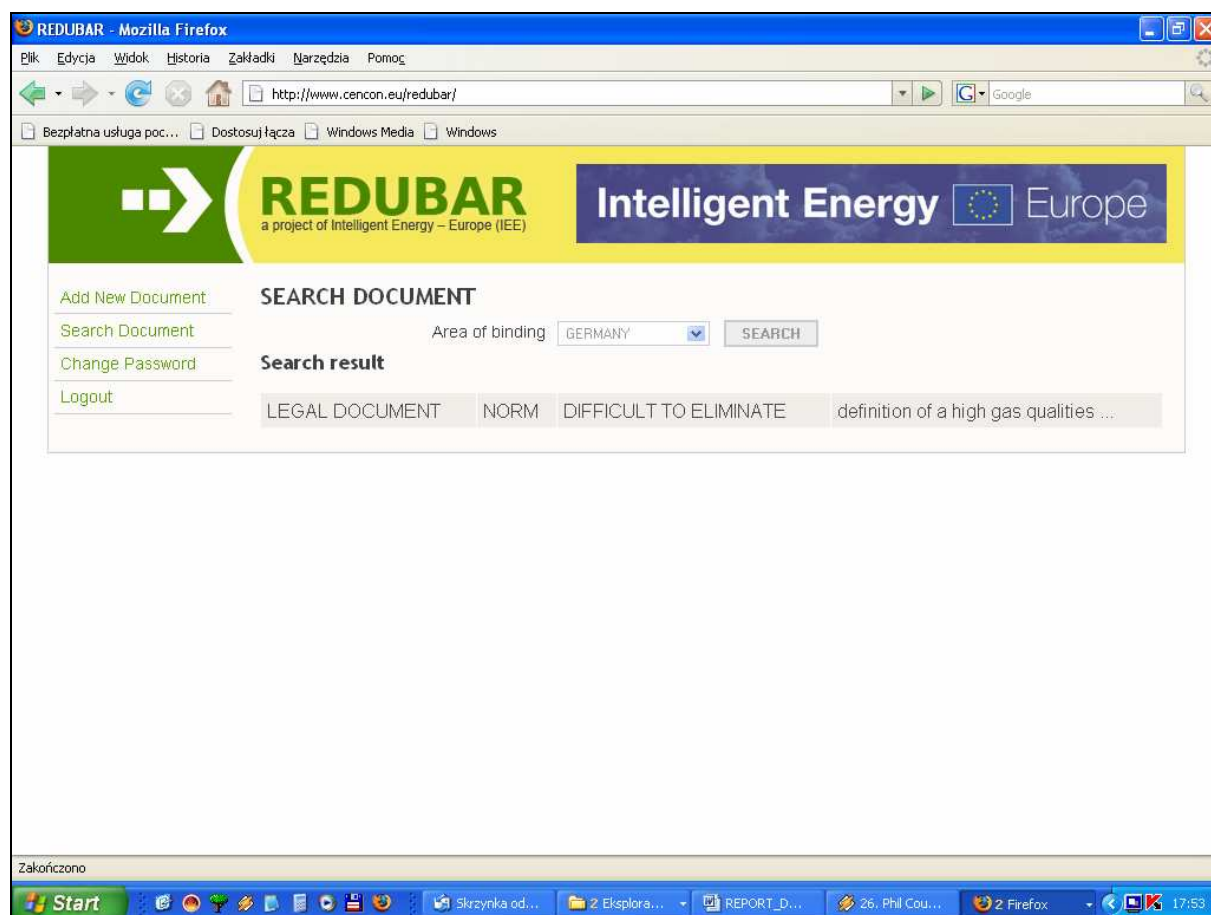
Note: INiG, as the institution in charge of WP02 – reserves the rights for addition or removal of Database entries. Any erroneous entry should be reported by e-mail to INiG which will undertake corrective action.

3.4 Instruction for using the Database

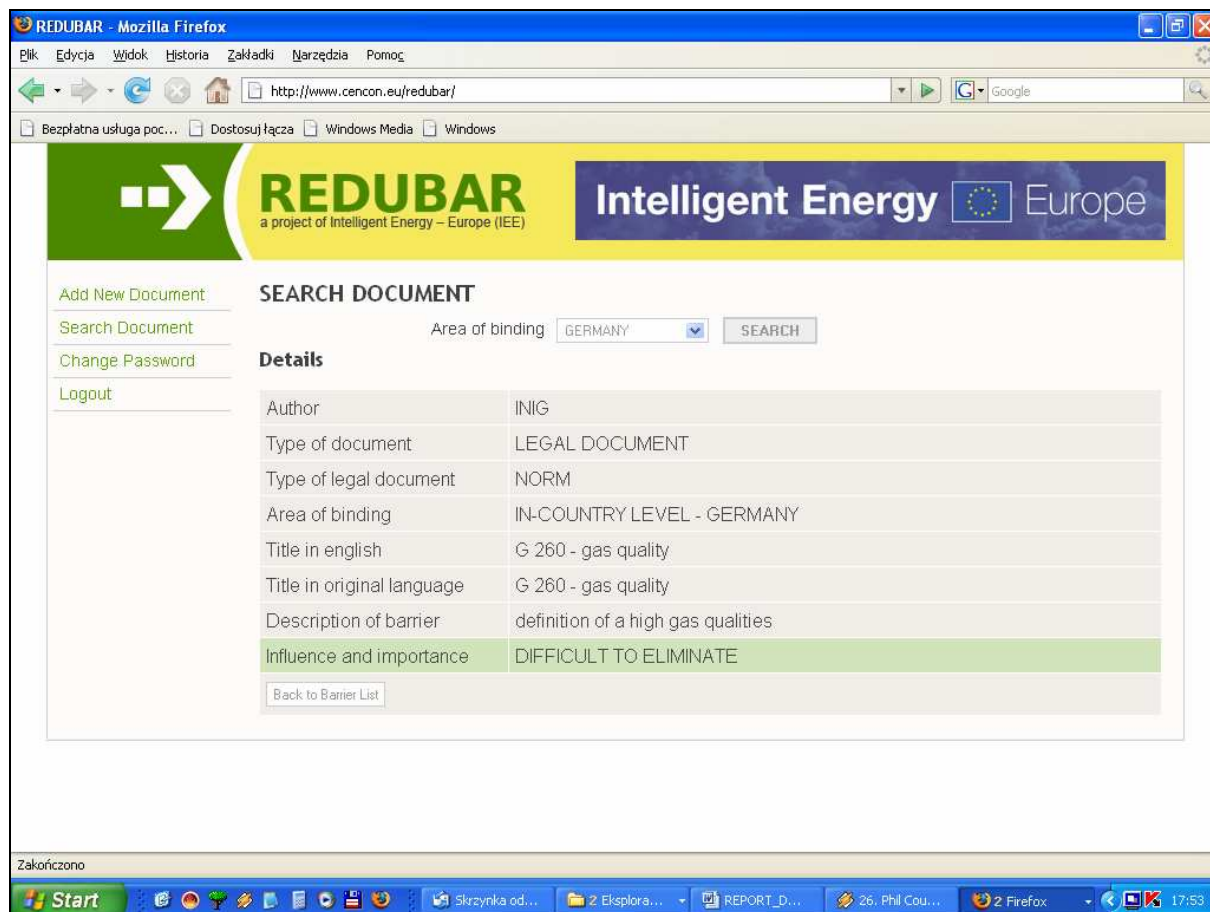
Database allows for searching for legal documents using the ‘Criterion of state’ i.e. indicates states in which the given legal document is effective.

How to use the Database – see instruction below:

1. Login
2. select **Search document** option if you want to find appropriate document
3. select region in which document is effective in **Area of binding** and click at
 - **European Union**
 - **Austria**
 - **Czech Republic**
 - **Germany**
 - **Greece**
 - **Hungary**
 - **Italy**
 - **Latvia**
 - **Lithuania**
 - **Netherlands**
 - **Poland**
 - **Romania**
 - **Slovakia**
 - **Sweden**
 - **Switzerland**



4. Text of Legal Document will be displayed if the document is effective for selected state (region), **Search result** will be displayed in case there are no documents effective.
5. Click **Legal Document** if you want detailed information on displayed documents.



We plan to develop the Database by making it capable for searching for legal documents (using” search for legal document” instruction)

3.5 Technical Requirements

Installation of additional programs which may be used with the internet Database is not required.

Requirements:

Web Browser:

- FireFox 2.0 (www.mozilla.com/en-US/firefox/)
- Internet Explorer 7.0

Connection:

- DSL, ADSL, Cable or better

4. Summary

Each party will have quick access to effective legal documents related to WP02 project i.e. to Database prepared using SQL language; access will be possible during realization and after completion of a project.

Advantages of Database:

- unlimited access to data (for participants only) from any place; internet is required
- possibility of searching for data in Database
- possibility of continuous updating of Database content– number of entries is unlimited
- change of Database construction is possible – must be justified
- entries are introduced in unified form
- construction of Database is intelligible

Oil & Gas Institute (INiG) will remain in close contact with co –partners and will respond to any suggestion of co-partners regarding Database modification providing that such modification is technically possible.

Database will be updated on a current basis by project participants.

5. Annexes

Annex no. 1 Example of questionnaire used for collection of data; such questionnaire forms were sent to all partners.

Annex no. 1

1 of 6 TYPE OF BARRIER IN	
LEGAL DOCUMENT	X
OTHER (WHICH ?)	
2 of 6 TYPE OF LEGAL DOCUMENT	
DIRECTIVE	
STATUTE	
REGULATION	
NORM	X
INSTRUCTION	
3 of 6 AREA OF BINDING OF LEGAL DOCUMENT	
IN 25 EU LEVEL	
IN-COUNTRY LEVEL (COUNTRY NAME)	Germany
4 of 6 TITLE OF LEGAL DOCUMENT (IN ENGLISH)	
G 262 - gas utilization from renewable sources in the public gas supply	
5 of 6 DESCRIPTION	
<p>only biogases from fermentation or gasification of biomass no landfill gas no not defined trace substances have to be in the prepared biogas</p>	
6 of 6 INFLUENCE AND IMPORTANCE OF BARRIER	
VERY EASY TO ELIMINATE	
EASY TO ELIMINATE	
DIFFICULT TO ELIMINATE	X
VERY DIFFICULT TO ELIMINATE	

Sent by DBI