



Project LIFE12 ENV/IT/001095

Sanitser tool

Technical document and user's manual

AIM OF THE DOCUMENT

This document describes main characteristics and provides user's manual of the web tool developed for the Project LIFE12 ENV/IT/001095 Sanitser to evaluate the life-cycle environmental impacts of sanitary ware products.

This document is part of the “Delivery kit” distributed among the partners of the LIFE project.

SUMMARY

1. GENERAL FEATURES

- GOAL AND SCOPE OF THE WEB TOOL
- HOW THE WEB TOOL WORKS
- LOGICAL APPROACH AND WEB TOOL ARCHITECTURE
- USER PROFILES AND RIGHTS
- DOCUMENTS STATUS

2. USER MANUAL

GOAL & SCOPE OF THE WEB TOOL





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A large pile of broken, clear glass shards, likely from a recycling facility, serving as the background for the login form.

Fill in your Username and Password , then click LOGIN

Authentication

 Username

 Password

 Login

Retrieve your username and password

The aim of the tool is to:

1. Collect quantitative data according to the Life Cycle Assessment (LCA) approach
2. Calculate the main environmental indicators for evaluating the performance of the processes involved at different production levels

HOW DOES THE WEB TOOL WORK



Type and quantity of **materials** used

Plant general consumptions

Internal **transports**

Operational phase consumption (i.e. electricity, auxiliary materials, etc.)

LCA indicators:

Carbon Footprint

Use of net fresh water

Process energy consumption

Percentage of recycled materials

LOGICAL APPROACH AND WEB TOOL ARCHITECTURE

PLANT inserting data on raw materials, slips, glazes and pilot plant

Raw materials
- MI

Slip - SETEC

Pilot plant

Glaze -
GEMICA

PLANT feeding DB with primary data

Environmental
Database with
PRIMARY and
SECONDARY DATA

Admin SANITSER using information about slips, glazes and processes for composing a sanitary model.

SANITARY WARE

USERS PROFILE AND RIGHTS

USERS	AUTHORIZATIONS AND FUNCTIONALITIES
ADMINISTRATOR	<ul style="list-style-type: none">• Documents mangement• Data check and validation• Database management• Users management• Creation of the sanitary model• View reports
PLANT – Raw material (MI)	<ul style="list-style-type: none">• Filling in the questionnaire related to raw materials for slips• View reports
PLANT – Slip (SETEC)	<ul style="list-style-type: none">• Filling in the questionnaire related to slips• View reports
PLANT – Pilot plant (SETEC)	<ul style="list-style-type: none">• Filling in the questionnaire related to pilot plant consumption for sanitary ware production• View reports
PLANT – Glaze (GEMICA)	<ul style="list-style-type: none">• Filling in the questionnaire related to glaze• View reports

DOCUMENTS STATUS

DOCUMENT STATUS	ACTION
WORKING	The plant is filling in the questionnaire
SENT	The plant sent the filled questionnaire to the administrator for check and validation
VALIDATED	The Administrator validated the questionnaire after its check.

SUMMARY

1. GENERAL FEATURES

2. USER MANUAL

- LOGIN
- HOME PAGE
- DATA ENTRY
- REPORT
- USER MANAGEMENT

LOGIN





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Each user will enter the tool
through **username** and
password provided by the
system administrator

Fill in your Username and Password , then click LOGIN

Authentication

 Username

 Password

 Login

Retrieve your username and password

web address: www.sanitser-tool.eu

Each user will receive dedicated user and password to access the tool.

HOME PAGE

Click here to open and fill in a new questionnaire

Menu

- Home
- Create sanitary ware
- Report
- User management

Here are reported the list of sanitary ware model realized by the administrator

Click here to access the profile management

Amministratore Sanitser Admin Logout



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Home

Create sanitary ware

Report ▾

User management

Open new document

+ New document

Sanitary number 0

Documents

Plant	Document	Period		Status	View	Edit
Filter search by 'Plant'	Filter search by 'Document'	gen 2016	ott 2016	*		
Minerali Industriali	F60P 0.1 - 0.7	01/01/2015 - 31/12/2015		WORKING		

Document management

The list of document realized by each user is reported here.

- **Plant**, represents the user that filled in the document
- **Document**, represents the name of the questionnaire
- **Period**, represents the reference period of data inserted in the questionnaire
- **Status**, represents the status of the questionnaires filled in by the users

Click here to VIEW the document

Click here to EDIT the document

HOME PAGE

Click here to open a fill in a new questionnaire

Menu

- Home
- Data Entry
- Report

Here are reported the list of sanitary ware model realized by the administrator

Click here to access the profile management

Operatore D'Angelo Deva Logout



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Home

Data entry

Report

Open new document

+ New document

Sanitary number 0

Documents

Plant	Document	Period		Status	View	Edit
Filter search by 'Plant'	Filter search by 'Document'	gen 2016	nov 2016	*	Find	
Minerali Industriali	F60P 0.1 - 0.7	01/01/2015 - 31/12/2015		WORKING		

Document management

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Click here to VIEW the document

Click here to EDIT the document

DATA ENTRY

The admin is able to:

- Fill in a questionnaire related to raw material, slip, glaze and pilot plant (from button in home page)
- Assembly the model for sanitary ware

Click here to access the questionnaire for creating the model for sanitary ware. The questionnaire is divided into two sections:
1. Project data 2. Assembly



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[Home](#)[Create sanitary ware](#)[Report -](#)[User management](#)

Assembly Sanitary

[Project Data](#)[Assembly](#)

Project details

Sanitary Name	<input type="text" value="Insert Sanitary Name"/>		
Finished sanitary	<input type="text" value="1"/>	<input type="button" value="+"/>	<input type="button" value="x"/>
Description	<input type="text" value="Sanitary description"/>		

[✓ Assembly](#)[Cancel](#)


Project data


Here is necessary to insert:

- Sanitary name: the name of the sanitary ware
- Finished sanitary: number of the sanitary produced
- Description: a brief description of the product

DATA ENTRY - ASSEMBLY

Administratore **Sanitser Admin** Logout

 **SANITSER**

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Home Create sanitary ware Report - User management

Assembly Sanitary Prova sanitario 2 [Return](#)

Project Data **Assembly**

Select documents

Slip

Documents → Select Document

Quantity Amount kg

Glaze

Documents → Select Document

Quantity Amount kg

Pilot plant

Documents → Select Document

Quantity Amount kg

Assembly **Cancel**

Assembly

Here the admin have to select from the drop-down menu:

- Slip
- Glaze
- Pilot plant

This document are present in the database.

Per each of the document selected insert the quantity in kilograms used for the production of the amount of sanitary declared in section "Project data".

Click here to confirm the assembly

Click here to cancel the assembly

DATA ENTRY - QUESTIONNAIRE

Clicking “open new document” in the homepage, it is possible to open and fill in a new questionnaire. The first section is the “registry” where it is required to insert the main information about the product to be investigated (name, description, reference period for data collection and amount of product produced in the reference period)

The screenshot shows the SANITSER web application interface. At the top, there are user role buttons: ALL USER, ADMIN, MI - PLANT, SLIP - PLANT, GLAZE - PLANT, and PILOT PLANT. Below these is a large green header with the text 'DATA ENTRY - QUESTIONNAIRE'. The main content area shows the 'Registry' form with the following fields:

- Title**: Name of the document
- Description**: Additional information
- Period**: Start and End dates
- Quantity**: Amount in kg

At the bottom of the form, there are two buttons: 'Save Document' (circled in green) and 'Cancel Document' (circled in green). Arrows point from these buttons to callout boxes:

- Save Document**: Click here to save the questionnaire/document
- Cancel Document**: Click here to cancel the questionnaire/document

Below the 'Registry' form, there is a list of instructions for filling in the registry:

Fill in the registry with:

- Title, name of the product
- Description, additional information about the product, process, time and geographical coverage
- Period, reference period of data collected and reported in the questionnaire (all subsequent data required by the questionnaire have to be referred to the declared period)
- Quantity, amount of product (in kilograms) produced during the reference period

DATA ENTRY

Sections (materials, packaging, energy consumption, emissions and waste) to be filled in after the completion of the registry.

Home Data entry Report

Prova materia prima - Minerali Industriali

Registry **Materials** Packaging Energy consumption Emissions Waste

Raw Materials

Question	Amount	Transport				Alert	Info
→ Select type of material	kg	Rail	Road (truck)	Ship	+		
		Num. of Km	Num. of Km	Num. of Km			

Explosives

Question	Amount	Transport				Alert	Info
→ Select type of material	kg	Rail	Road (truck)	Ship	+		
		Num. of Km	Num. of Km	Num. of Km			

Additives

Question	Amount	Transport				Alert	Info
→ Select type of material	kg	Rail	Road (truck)	Ship	+		
		Num. of Km	Num. of Km	Num. of Km			

Expanding gas

Question	Amount	Transport				Alert	Info
→ Select type of material	kg	Rail	Road (truck)	Ship	+		
		Num. of Km	Num. of Km	Num. of Km			

Film

Question	Amount	Transport				Alert	Info
→ Select type of material	kg	Rail	Road (truck)	Ship	+		
		Num. of Km	Num. of Km	Num. of Km			

Other

Question	Amount	Transport				Alert	Info
→ Select type of material	kg	Rail	Road (truck)	Ship	+		
		Num. of Km	Num. of Km	Num. of Km			

Save

Each section is organized in the same way:

1. Select from the drop-down menu (e.g. the type of material)
2. Insert the amount in the unit required
3. Insert the km covered by rail, road or ship to transport the material

Click here to choose another material

Click here to save all data inserted

DATA ENTRY

After completing all the questionnaire sections the “send” button will appear and each user can send the questionnaire to the administrator for check and validation.

Operator: Filareto Assunta Logout

SANITSER

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Home Data entry Report

Prova materia prima - Minerali Industriali

Registry Materials Packaging **Energy consumption** Emissions Waste

Combustion fuel

Question	Amount	Alert	Info
Natural gas, boiler <100 kW *	10000 Nm3 *	+	

Electricity

Question	Amount	Alert	Info
Electricity, medium voltage, Italy *	500 kWh *	+	

Save

Send

The fields with * are required.

Cancel


A mass balance check is inserted: if the ratio between input and output material is minor than 0.95 or up to 1.05 an alert appears when user is sending the questionnaire to the administrator. User is able to modify the figures before sending the document to the administrator.

REPORT

The admin is able to view the following reports:

- Plant, results coming from the single questionnaire filled by each user in the tool
- Sanitary, results coming from the assembly of sanitary model
- Sanitary phase, results referred to sanitary model with the contribution of each production process phase (slip, glaze, pilot plant)

Administratore Sanitser Admin Logout

 **SANITSER**



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Home Create sanitary ware **Report** User management













Open new document

+ New document

Plant
Sanitary
Sanitary phase
Sanitario tradizionale


Number	Date	View model
	30/09/2016	
	04/07/2016	

Documents

Plant	Document	Period	Status	View	Edit
SETEC	Impianto pilota	01/01/2015 – 31/12/2015	VALIDATED		
Minerali Industriali	Prova Assunta	01/01/2015 – 31/12/2015	VALIDATED		
Minerali Industriali	PROVA	01/06/2016 – 22/06/2016	VALIDATED		
GEMICA	prova	01/06/2016 – 30/06/2016	WORKING		
Minerali Industriali	Prova2	01/06/2016 – 30/06/2016	SENT		
GEMICA	Smalto tradizionale	01/06/2016 – 30/06/2016	VALIDATED		
SETEC	Impasto tradizionale	01/06/2016 – 30/06/2016	VALIDATED		
SETEC	Energie per impianto pilota	01/06/2016 – 31/07/2016	VALIDATED		
Minerali Industriali	Prova quarzo	01/08/2016 – 31/08/2016	WORKING		

REPORT - PLANT

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Home Create sanitary ware Report - User management

Report Plant

Search parameters setting

Documents Prova quarzo, Prova2

1


2

3

Select the documents and click "execute report" (it is possible to select more documents together).

+ Execute report

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Home Create sanitary ware Report - User management

Report Plant

Search parameters setting

Documents Prova quarzo, Prova2


+ Execute report


Graph	Indicator	Prova quarzo	Prova2
	[GWP] Carbon Footprint (IPCC 2013)	4,43	0,18
	[PROCESS_ENERGY] Process energy consumption	74,80	2,12
	[SECONDARY_MATERIAL] Percentage of recycled material	0,00	0,00
	[WATER] Use of net fresh water	26,97	0,37

REPORT – SANITARY

The “sanitary report” works as “plant report”:

- Select the sanitary
- Click “execute report”
- View the results


SANITSER


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[User management](#)





Report Sanitary

Search parameters setting

Sanitaries

Prova sanitario 2, Sanitario tradizionale

+ Execute report

Graph	Indicator	Sanitario tradizionale
 [GWP] Carbon Footprint (IPCC 2013)	kgCO2eq / kg	5,51
 [WATER] Use of net fresh water	kg / kg	15,13
 [PROCESS_ENERGY] Process energy consumption	MD / kg	80,20
 [SECONDARY_MATERIAL] Percentage of recycled material	%	0,00

REPORT – SANITARY PHASE

The “sanitary phase report” gives the opportunity to see the contribution of each production process phase per each LCA indicator.

- Select the sanitary model
- Select the indicator
- Click “execute report”
- See the results


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Report Sanitary phase

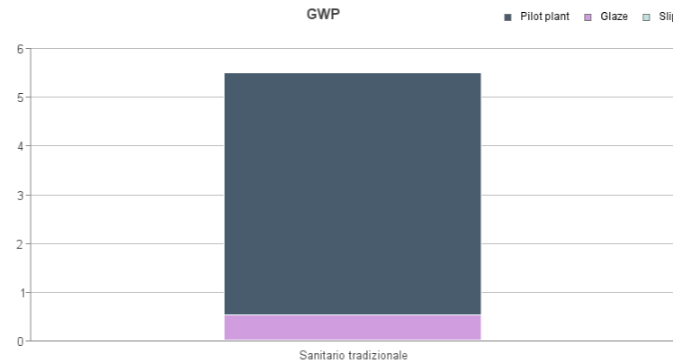
Search parameters setting

Sanitaries: Sanitario tradizionale

Indicators: [GWP] Carbon Footprint (IPCC 2013) (kgCO2eq / kg)

[+ Execute report](#)


Phases	Sanitario tradizionale
Slip	0,014
Glaze	0,522
Pilot plant	4,971
Sanitary Total	5,507




USER MANAGEMENT

Click here to add new user

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 **SANITSER**

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Home Create sanitary ware Report - User management

Users Management

[+ Add new User](#)

Username IT	Role IT	Country IT	Plant IT	Surname IT	Name IT	Email IT	Status IT		
Administrator	Administrator	Italy		Sanitser	Admin	filareto@studiolce.it	ACTIVE		
Pilotplant	User	Italy	SETEC	Elisabetta	Redavid	redavid@studiolce.it	ACTIVE		
Minerali	User	Italy	Minerali Industriali	Filareto	Assunta	afilareto@gmail.com	ACTIVE		
gemicaplant	User	Italy	GEMICA	Filareto	Assunta	deperi@studiolce.it	ACTIVE		
Slipplant	User	Italy	SETEC	Pignatelli	Sonia	pignatelli@studiolce.it	ACTIVE		
AAAAAAA	User	Italy	GEMICA	Pollano	Maurizio	maurizipollano@gmail.com	ACTIVE		
Utente	User	Italy	Minerali Industriali	Sanitser	User		ACTIVE		

Click here to edit profile characteristics of a user