# User manual SEVE v3

**Environmental Variant Evaluation System** 



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### **1 GENERAL PRESENTATION OF THE SOFTWARE**

### 1.1 The origin of SEVE

To respond to calls for tenders incorporating new evaluation criteria based on environmental aspects, members of the USIRF (Union des Syndicats de l'Industrie Routière Française) have created SEVE, an environmental eco-comparator, common to the entire industry. The software created in 2010 has since become a reference within the public works profession.

In 2016, the SPTF (Syndicat Professionnel des Terrassiers de France) joined SEVE for the integration of an earthworks module.

The purpose of SEVE is to compare two technical solutions based on the partial life cycle analysis (LCA) (see GLOSSARY and 1.2) of each of them, according to the methods defined below (Figure 1): the so-called basic solution which is the one described in the call for tenders and the alternative solution (s). For the same offer, there can therefore be as many answers as there are alternative solutions proposed



Figure 1 – Partial LCA of a construction site

### 1.2 Life Cycle Assessment (LCA)

It is therefore important to recall the definition of a LCA. It is a method of quantifying environmental impacts. This analysis includes a life cycle inventory providing environmental data; the latter allows the environmental impacts of the product and its use to be assessed during its lifetime.



LCA studies the environmental aspects and potential impacts throughout the life of a product, including raw materials, production, transport, use and disposal. The general principle is defined by the standards NF EN ISO 14040: 2006 and NF 5 EN ISO 14044: 2006 and the list of environmental indicators partly taken from the standard NF EN 15 804.

Companies cannot commit themselves during the call for tenders on the frequency of maintenance sequences; this is why it was decided to work on partial LCAs limited to the delivery of the site. It is important to remember that:

• The proposed variants must offer the same level of service over the same duration as the basic solution

• The SEVE tool is an eco-comparator allowing the comparison of two or more solutions in the context of the response to a call for tenders. It is in no way possible to use this tool to calculate the environmental impacts of a construction site in an absolute way and consequently it is not adapted to carry out a greenhouse gas emissions assessment (Bilan Carbone ®, OMEGA TP,...)

During a call for tenders, it is difficult for companies to commit themselves on the frequency of maintenance sequences of a construction site as well as on its total life span, which are function of many parameters that companies cannot control. As a result, it was decided to work on partial LCAs, starting with the extraction of raw materials and limited to the delivery of the site, the condition being that the alternative solution provides the same service as the basic solution to the specifications.

### 1.3 SEVE's strengths

One of the great strengths of the SEVE software is its use via the Internet. Indeed, any user can connect and work on the software. All you have to do is connect to the site:

### www.seve-tp.fr

To simplify the understanding of the software, it is good to keep in mind that the two main user profiles working on SEVE are:

- s design offices (Agencies).
- studies (ABE or BE) which build the different solutions of the project according to the industrial catalogue (made available by the industry profiles) and the common SEVE database.

### 1.4 Databases

The SEVE software provides a resource database of materials, machines, products,... common to all users.

A database of formulas specific to each production plant (asphalt, concrete, MTLH, etc.) can thus be created by each industry manager. In addition, one of the other major points of this tool is the possibility of incorporating data specific to each company into the software. To do this, it is sufficient for the company to justify the environmental costs of its specific product(s), by using an environmental expert office to certify the conformity of the data.

SEVE can thus provide the synthesis of project results on the different environmental indicators according to the specific environmental cost of the data present in the databases and the data inherent to the project, entered by the user:



- Distance and type of transport of raw materials to the substation or to the site, from the site to a platform.
- Tonnage used
- Asphalt manufacturing temperature
- Type of fuel used on the asphalt plant
- % water content of materials
- % asphalt aggregates in the formula
- Operating time of the asphalt plant



Figure 2 – SEVE indicators

### 1.5 SEVE indicators

The comparison between the different solutions of a project is based on 7 quantitative and 2 declarative indicators that have been selected within the framework of the voluntary commitment agreement signed with the Ministry of the Environment (it is important to note that this does not reflect the diversity of the potential impacts of the worksites on the environment) and especially in direct connection with Article 79 of the Law on the Energy Transition for Green Growth of 17 August 2015.

### The 7 quantitative indicators:

They are composed of an impact indicator defined in standard NF EN 15 804 and corresponding to global warming (t CO2 eq) and 6 other flow indicators:

- 1 flow indicator corresponding to the "process" energy consumed (MJ)
- 5 flow indicators specific to the public works sector corresponding to: o per tonne-kilometre (t.km)

o the preservation of the resource broken down into 4 indicators:

- Consumption of natural aggregates (t)
- Consumption of asphalt aggregates (t)
- Consumption of excavated material produced and reused within the project (t)
- Consumption of recycled materials (t)
- The 2 reporting indicators :
  - o Water management
  - o Biodiversity conservation

### The "process energy" indicator (in MJ):

This is the primary process energy which represents the sum of renewable and non-renewable energies used during the construction of the structure. By "primary" we mean the energy



required upstream to have the energy at the end customer's disposal. By " process" is meant the energy actually consumed, which therefore does not include material energy.

### The "GHG emission" indicator (tonne CO2 equivalent):

This indicator reports on the impact on climate change. The flows corresponding to greenhouse gas emissions in the air are summed for all the materials used but also for all the operations necessary for the project and all transport. This indicator takes into account the emissions of CO2, CH4 and N2O converted into CO2 equivalent according to the following formula, using the GWP (Global Warming Power)

Mass CO2 eq = (mass CO2 X GWP CO2) + (mass CH4 X GWP CH4) + (mass N2O X GWP N2O) For your information: The masses are expressed in kilograms according to the SI unit CO2 GWP = 1 kg CO2 eq per kg CH4 GWP = 25 kg CO2 eq per kg N2O GWP = 298 kg CO2 eq per kg

The "Resource conservation" indicator (tonnes)

• <u>Consumption of natural aggregates (t):</u>

This indicator records the tonnes of natural aggregates consumed on site. In contrast to the basic solution, this makes it possible to measure the quantities of natural aggregates saved. -

• <u>Asphalt aggregate consumption (t):</u>

This indicator tracks the quantities of asphalt aggregate reused in the formulation of hot, warm and cold bituminous materials. This method simply highlights the true value of aggregates and bitumen.

• <u>Consumption of excavated material produced and reused within the project (t):</u>

This indicator accounts for the quantities of excavated material produced and reused within the project. This method highlights the saving of natural aggregates to avoid the permanent storage of these excavated materials.

• <u>Consumption of recycled materials (t):</u>

This indicator tracks the tonnes of recycled materials consumed on site. It differs from the indicator "excavated material produced and reused within the project" because it refers only to recycled materials from outside the project, with the exception of "asphalt aggregates".

### The "Tonne kilometre" indicator (t.km)

This indicator reports on the preservation of the road network and/or the reduction of lagêne to the user, which translates into a tonne.kilometre. This indicator is calculated by multiplying the tonnes transported by the number of kilometres travelled: "the tonne kilometre is a transport unit corresponding to the transport of one tonne over one kilometre". This unit is the basic unit of material transport in life cycle analysis.



The water management indicator (4 levels of commitment):

This indicator reflects the level of commitment of the company in its offer to preserve water resources and to enhance the capacity of companies to use recycled water on projects (water from temporary or final sewage basins and process water).

The indicator taking biodiversity into account (4 levels of commitment):

Companies, during the work, strive to preserve biodiversity and ensure that the functionalities of both terrestrial and aquatic natural environments are preserved.

The biodiversity indicator reflects the level of commitment of the company in its offer to preserve this biodiversity.

### 1.6 The 2 modules of SEVE v<sub>3</sub>

The main evolution of SEVE v3 is the creation of 2 distinct modules in SEVE (Figure 3):

- The Road/VRD module

- The Earthworks module

The distinction of these 2 modules allows the software to provide the results on the different environmental indicators by type of operation and thus to know the impacts related to earthworks and those related to roadworks in a distinct way.

The projects may therefore be of different kinds:

- Road/VRD only,
- or Earthworks exclusively
- or the combination of both

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Figure 3- SEVE version 3 project modes 9



### 1.7 The results obtained

The results are presented in two different forms (Figure 4). Two graphs comparing the different solutions proposed in a visual way (from 2 to 6 solutions on a single project) and a table of values allowing a numerical approach.



Figure 4 – Example of results obtained on SEVE v3 10

### 1.8 The standardised summary PDF

The complete restitution of the results (Figure 5) is done by the automatic generation of a summary report in PDF format containing all the data entered by the user (type and composition of asphalt mix, products used, quantities, type of plant used, transport, machinery...) and of course the synthesis of the results on each of the 7 quantitative indicators and the 2 declarative indicators. It is thus possible for a third party to verify all the results given. This report is standardized and therefore its form is identical for all SEVE users.





### 4.2. Indicateur : émission de GES en tonnes équivalent CO2 L'Indicateur : émission de gaz à effet de serres (tonne CO2 équivalent) :

Cet indicatiour rend compte de l'impact sur le changement climatique. On somme les flux correspondant aux émissions de gaz à effet de serre dans fair pour tous les matérieux mis en auxon mais également toules les opérations nécessaires au projet et lous les transports. Cet indicateur tient compte des missions de 020, 24 et 3120 comments en espandent 020

6	S	-		Emiss	sions de l	qaz à e	ffet de ser	re (téc	(CO2)
		Extraction des matériaux	Transports en amont	Fabrication des melanges	Fret entrant sur le chantier	Mise en oeuvre	Fret sortant du chantier	Total	Comparaise / Base
Solution de base	Route/VRD	99,2	10,7	223,7	55,2	40,6	27 A	456,9	
Route+ terrassement	Terrassemen t	0	0	0	0	0	0	0	
	Total	99,2	10,7	223,7	55,2	40,6	27,4	456,9	
Solution	Route/VRD	180,4	0	0	1	46,1	27,4	254,9	44,2%
VARIANTE	Terrassemen 1	0	0	0	0	0	0	0	Non Applicable
j.	Total	180,4	0,0	0,0	1,0	46,1	27,4	254,9	-44,2 %
Solution de base	Route/VRD	99	10,7	220,9	54,9	40,6	27,A	453,5	-0,7 %
Route+ lerrassement (2)	Terrassemen t	2,4	0	0	8,1	91	0,4	102	Non Applicable
	Total	101.4	10.7	220,9	63.0	131.6	27.9	555.5	21.6 %
VARJAN Salution de la Reules terre									t extrant sur hardur e en inte t sontent du ritier
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Engins			Quantité	Unité	Cout environnemental unitaire	
(Atellier) Atelier de retraitement e	n place à l'emulsion	600 Vj	10	jour	Base USIRF : * Atelier de retraiter 600 v/j *	ment en place à l'emutsion
Machine de recyclage en place	des couches de ch	ausstes	1	unité	Base USIRF : "Machine de recycl de chaussées "	lage en place des couches
Compacteur tandem vibrant V	() ()		2	unité	Base USIRF : * Compacteur tande	em vibrant V1 *
Répandeuse de liant bitumines	x		1	unité	Base USIRF : * Répandeuse de la	ant bitumineux *
Arroseuse			1	unité	Base USIRF : "Arroseuse "	
Matériaux sortants	Quantité	Unité d'œuvre	Densité	c	oŭt environnemental unitaire	Acheminement
Fraisats issus du chantier	6750	t.	•	8	sse USIRF : * Fraisats issus du chantie	Transport par semi 24t :

5.3. Solution de base Route+ terrassement (2)

5.3.1 OPERATION RABOTAGE

ins C			Quantité	Unité d'œuvre	Coût environnemental unitair	
alayeuse aspiratrice			15	our	Base USIRF : * Balayeuse aspir	atrice *
aboteuse 2m à 2,2m			15	jour	Base USIRF : * Raboteuse 2m	2,2m*
atériaux sortants	Quantité	Unité d'œuvre	Densité	Coti	t environnemental unitaire	Acheminement
aisats issus du chantier	6750	1		Bas	USIRF : * Fraisats issus du chan	Transport par semi 24t : 50km
		-	-			100000
5.3.2 OPERATION RE	CHARGEN	IENT				
5.3.2 OPERATION RE atériaux entrants	CHARGE	Unité d'œuvre	Densitë	Coi	t environnemental unitaire	Acheminement
5.3.2 OPERATION RE atériaux entrants vobe test 30042016 (Copie)	Quantité 6750	Unité d'œuvre	Densitë •	Coli	t environnemental unitaire	Acheminement Transport par semi 241 100km

(Ateller) Atelier de mise en œuvre d'enrobés grande cadence + 2000 tij				jour		Base USIRF : * Atelier de mise en cadence + 2000 V/ *	oeuvre d'enrobés grande
Finisseur (20 à 25t)			2	unité		Base USIRF : * Finisseur (20 à 25t	
Compacteur à pneu P1			3	unité		Base USIRF : * Compacteur à pre	uP1*
5.3.3 terrassement							
Matériaux entrants	Quantité Unité		Densité		Coût	environnemental unitaire	Acheminement
GNT - Grave non traitée	1000	<u>0</u>			Base	USIRF : " GNT - Grave non traitée "	Transport par semi 24t : 100km
Engins			Quantité	Unité	me	Coût environnemental unitaire	
Chargeuse sur chenille (15 à 201)			10	jour		Base USIRF : " Chargeuse sur che	nile (15 à 201)*
Compacteur à pneu P1			100	jour		Base USIRF : * Compacteur à pre	uP1*
Compacteur mixte Vx			100	jour		Base USIRF : * Compactour mixte	Vx*

Figure 5 – Standardised PDF (cover page, summary of results and all project data entered by the user (ABE or BE))



### 2 STRUCTURAL ORGANIZATION SEVE

It is important at this stage to understand the structural organization of this tool, what are the different profiles, their roles, their rights, their hierarchical levels, the interactions between the different profiles and the perimeters within the application.

### 2.1 SEVE structural organization administrator profiles

**STEP 1:** The SEVE administrator who is called the USIRF Central Administrator (ACU) manages the database of common software resources and creates and administers the rights of SEVE managers within the Member perimeters (companies or organizations), they are called Deputy Central Administrators (ACD). SEVE members are mainly public works companies.

# Central Administrator of the User Entity (ACU)

### **DEFINITION:**

He is the SEVE manager of the User Entity (EU), he receives access rights from his ACD and can himself manage the rights of his AI, ABE, CI or BE users. It creates in the database the design offices (agencies) of the EU.

### Périmèter :

User Entity (EU)

### FUNCTION:

He administers SEVE for his EU, as such he fills in the SEVE database with the agencies belonging to his EU. It gives user rights to its Industrial Administrators (AI), its Industry Managers (CI) (attached to a production plant), its Design Office Administrators (ABE) and its Design Office Managers (BE) (attached to an agency).

### SUMMARY:

Agency management (creation, modification, deletion).

Management of AI, CI, ABE and BE

Profiles (creation, modification, deletion)

Assignment of Heads of Industry (CI) to an industry.

### Deputy Central Director (ACD)

### **DEFINITION:**

The ACD is in charge of the SEVE application within its organization or within its company.

### PERIMETER :

Member

### FUNCTION:

Il It administers access rights to its Central Administrators of User Entities (ACEUs) after entering the names of these User Entities (EU) into the database. He is also the sole and direct contact with the system's SEVE manager (ACU).

### IN SUMMARY :

 Management of User Entities (creation, modification, deletion)
 Management of ACEU profiles (creation, modification, deletion)
 Contact person and single person in charge of his organization at ACU
 Visibility on his organization's general statistics

### 2.2 SEVE structural organization: the EU administrator profile

<u>STEP 2</u>: These ACDs will then be able to create access rights for their user entities (EU), which are typically the regional divisions of construction companies or local delegations of local authorities. These access rights will be given to Central Administrators of User Entities (ACEUs).

### Administrateur central de l'Entité Utilisatrice (ACEU)

### **DEFINITION:**

Il est le responsable SEVE de l'Entité Utilisatrice (EU), il reçoit des droits d'accès par son ACD et peut lui-même gérer les droits de ses utilisateurs AI, ABE, CI ou BE. Il crée dans la base de données les bureaux d'études (agences) de l'EU.

### PERIMETRE :

Entité Utilisatrice (EU)

### FONCTION:

Il administre SEVE pour son EU, à ce titre il renseigne la base de données SEVE avec les agences appartenant à son EU. Il donne des droits d'utilisateurs à ses Administrateurs Industrie (AI), à ses Chefs d'Industries (CI) (rattaché à une centrale de production), à ses Administrateurs de Bureaux d'Etude (ABE) et à ses Responsables Bureaux d'Etude (BE) (rattachés à une agence).

### EN RESUME :

- Gestion des agences (création, modification, suppression)
- Gestion des profils AI, CI, ABE et BE (création, modification, suppression)
- Affectation des Chefs d'Industrie (CI) à une industrie.

### 2.3 SEVE structural organization: user profiles

**<u>STEP 3</u>** : ACEUs create work agencies and user accounts in their two-level user entity:

- There are two types of profile, the Design Office (BE) which is attached to its agency and the Design Office Administrator (ABE) which can work with all the agencies of the user entity. The ABE is a profile belonging to the EU perimeter.
- there are two profiles, the Industry Manager (CI) who creates the deformula catalogue in the industry to which he is attached and the Industry Administrator (AI) who can create formulas in all industries of the user entity. The AI is a profile belonging to the EU perimeter.



### Industry Administrator (AI)

### **DEFINITION:**

The AI receives user rights through its ACEU, it is in charge of the administration of the industries of its EU.

### PERIMETER : User Entity (EU)

\_\_\_\_\_

### FUNCTION :

He can on all the workstations of his EU, elaborate the catalogues of formulas and publish them to the collaborators of his EU. It may also publish these forms to other EU SEVEs, in particular within the framework of EIGs. It can also create mobile asphalt plants within its user entity, and also share plants with other user entities.

### **IN SUMMARY:**

- Registers the asphalt mix formulas of its EU plants as a Head of Industry
- Publish the forms to the User Entities
- Creation of resources specific to its User Entity (fuels, products and formulas)
- Shares its positions with other EU countries in the event of an EIG

### Industry Manager (CI)

### **DEFINITION:**

The CI is in charge of a specific Industry.

### PERIMETER : Industry

### **FUNCTION:**

He can on his own workstation, elaborate the catalogues of formulas, inform the type and mode of transport of raw materials and make these formulas available to his EU.

### **IN SUMMARY:**

- Saves the formulas of his position
- Publish the forms to the User Entities

### **Director of Design Offices (ABE)**

### **DEFINITION:**

The EBA receives user rights through its ACEU, it is in charge of the projects of the Design Offices within its EU.

PERIMETER : User Entity (EU)

### FUNCTION :

He can develop a project in order to respond to a call for tenders using all the data made available to him. He can thus use the catalogue of formulas established by the AI (or by the CI), the SEVE database of products, the complete list of Equipment and Workshops at his disposal... He can modify a project of any agency of his user entity.

### IN SUMMARY :

- Creation of resources specific to its User Entity (machines, workshops, transport, transport, transport)
- Can access the projects of the Agencies of its User Entity and can replace any BE
- Prepare the summary report that it attaches to the call for tenders

### **Design Office (BE)**

### **DEFINITION:**

The BE is in charge of responding to calls for tenders within an Agency

### **PERIMETER:**

Agency

### FUNCTION :

He can develop a project in order to respond to a call for tenders using all the data made available to him. He can thus use the catalogue of formulas established by the AI of his EU (or by an CI), the SEVE database of products, the complete list of Equipment and Workshops at his disposal... He can only develop a project for his own agency.

### IN SUMMARY :

- Constitutes its projects from the catalogues of formulas and databases specific to the EU and common to all users
- Prepare the summary report that it attaches to the call for tenders



It is possible to synthesize using the diagram below (Figure 6), the relationships between the profiles and the different perimeters







### **3 FAMILIARISATION WITH THE SOFTWARE**

### 3.1 SEVE Software Registration

Each company or organization intending to register for SEVE must contact the SEVE central administrator for its first use, via the website home page (Figure 7), www.seve-tp.fr, in order to obtain user rights.

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	Vous southaites una description de SEVE : <u>Elecuente SEVE</u>	

Figure 7 – www.seve-tp.fr home page, with the "REGISTRATION" box

In the "Registration" box (Figure 7) you must enter the requested information allowing the generation of an automatic email to the Central Administrator SEVE (ACU). Once the registration has been registered, the ACU contacts you and then, with your agreement, creates the Member's first ACD account . 2 automatic emails are sent by admin@seve-tp.fr to the email address provided in the "Registration" box:

- an email confirming the registration of the ACD
- an email generating a link to choose the password (Figure 8)

All the ACD has to do is define a personal password to access the software.



Figure 8 – Choosing the password via the automatic







### 3.2 Connection under an ACD profile (Deputy Central Administrator)

The ACD is the first person to use SEVE. As such, it is the privileged contact between the SEVE users of its user entities (EU) and the ACU. In order to access the ACD profile, you must connect with your ACD Login (provided by 'ACU) and Password (which you have chosen via the internet link registered in the SEVE automatic email) on www.seve-tp.fr (Figure 7), you connect in the SEVE ACD configuration described in Figure 9.



Figure 9 – Managing Central Administrator Environment in SEVE

The ACD has the ability to navigate the tabs on the left side of the screen (Figure 9):

- User Entities
- Users
- Statistics
- Send E-mail

Each of these tabs has very specific functions that we will explain.

### 3.2.1 « My Account » and « Logout » options:

The "My Account" and "Logout" options written at the top right of the highlighted window (Figure 10) have 2 functions:

• the "email address" and even the user's password (in this case the ACD). This function is available on all types of profiles. Figure 10 - "My account" option 18

	Ismail CAVADNOL lacdetate ACD_Ecole ECTP + Man compare Decomposition
Ecole ESTP [ESTP]	Postfration of utilisateur Utilisation Messages
	- Utilisteur
	Nom : * CAVAGNOL Prénom : * Inmail Login : * ardente 🕖 Email : * inmail.cavagnol@usif.com
	Statut : Artif Modifier son mict de passe

Figure 10 – Option « mon compte »



• disconnect from the SEVE application at any time by clicking on it. This function is available on all types of profiles.

### 3.2.2 « User Entities » tab:

### 3.2.2.1 Creation of a User Entity

The ACD can enter information into the "User Entities" database by creating within the tab the different User Entities belonging to its company or organisation.

To do this (Figure 11):

- 1- Click on the "User Entities" tab
- 2- Right-click on the tree structure above the tab then choose "Create EU"
- 3- Enter the information (Code and Label) then click on "Save"
- 4- The created EU appears in the tree structure



Figure 11 – Creation of an EU 19 user entity



### 3.2.2.2 Merger of a User Entity

In the event of a merger of certain User Entities within an organization (e.g. Merger of regional delegations into a TP group), SEVE gives the ACD the possibility to merge all the resources of the old US by creating a new one.

To do this (Figure 12):

- 1- Right-click on the "User Entities" tab
- 2- Right-click on the tree structure above the tab then choose "Merge EU"
- 3- Fill in the information (Code and Label) of the new EU, choose the EU to be merged. Then click on Save
- 4- The 2 old EU disappear from the tree structure in favor of the newly created EUniversity that appears in the tree structure.



Figure 12 – Merger of a user entity 20



### 3.2.3 « Users » tab:

### 3.2.3.1 Creating an ACEU profile

Each EU created must be administered by an ACEU. In order to create an ACEU profile you must (Figure 13):

- 1- Click on the "User" tab
- 2- Right-click on the tree structure above the tabs then choose "create a user"
- 3- Enter the "User" part
  - a. Choose a login of the type "aceu\_nom"
  - b. Name, First name and e-mail of the person in charge of SEVE in the EU
- 4- On the same page, you must fill in the part "User's right"
  - a. Click on create a right
  - b. Choose under the "Profile" drop-down menu, the ACEU profile
  - c. Choose under the "Perimeter type" drop-down menu, the EU perimeter

d. Choose under the "Perimeter" drop-down menu, the name of the EU created previously associated with the ACEU created.

### NB:

- Do not click on the "Activate User" button. The profile of each user will be activated when the automatic confirmation email is received by entering the personalized password.
- It is important for questions of logic and ease of use to assign the future user a simple login. A practical example of a login for the creation of an ACEU account would therefore be "ACEUfirst name"
- Once the information entered in the SEVE database concerning the various user entities has been entered, the ACD must contact the ACU again, and designate the various fixed asphalt production plants of its company corresponding to each User Entity and inform it of the technical data of this plant (fuel, geographical situation...).
- For the very particular case of industrial sharing (EIG position = Economic Interest Grouping) the principle being that the power plant is assigned to the EU of the partner that has the CE marking product mission. It will then be up to the EU Industry Administrator (AI) to share the asphalt plant with the other EIG partners (see 3.4.6.3).



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Figure 13 – Creating an ACEU profile 22



This tab allows you to view the Member's own Statistics. There are 3 frames (Figure 14):

- General SEVE statistics, allows to view the total number of different resources of the Member
- SEVE use statistics, allows to extract on EXCEL over a given period the number of projects created by EU and the number of PDF generated via the "Export SEVE use" button.
- General statistics SEVE per EU, allows to visualize the general statistics of each EU of the Member. This data can be extracted in detail via the "Export to EXEL" button or simplified via "Simplified Export to EXCEL". The "Export Profiles and Territories" button allows you to extract on an EXCEL sheet the names, first names, profiles, email addresses of each SEVE user at the Member's premises.



Figure 14 – ACD Statistics 23



In this "Send E-mail" tab, it is possible to send emails to the Member's users in 2 different ways (Figure 15):

- Sending by profile Sending to EU users Figure 15
- Mail application for the ACD profile

	Sélection des destinataires de l'email		
	Périmètre :	Liste des destina	ataires 0
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	C Envoi par profil		
	Envoi aux utilisateurs d'une EU		
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Figure 15 – Application mail pour le profil ACD

It is also possible to view the history and status of emails by clicking on the "View email status" tab. 24



# ACEU



### 3.3 Connection under an ACEU profile (Central Administrator of the User Entity)

The ACEU as Central Administrator of the User Entity, is therefore the SEVE manager of a subsidiary, a regional delegation or a specific pole of an organization. When you arrive on the home page after entering your login and password, you will be offered three tabs on the left of the screen (Figure 16).



Figure 16 – ACEU Profile Home Page

### 3.3.1 « My Account » and « Logout » Options:

The "My Account" and "Logout" options written at the top right of the highlighted window have the same functions as those of the ACD profile (3.2.1)

### 3.3.2 « Industries » tab:

The "Industries" tab (Figure 17) allows you to view the information of the asphalt mixing plants in your EU. ACEU cannot create power plants, nor can it even modify their characteristics.



	Ismail CAVAGNOL (aceu30042016) ACEU_EU TEST 30042016 👻	Mon compte Déconnexion
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Centrale d'enrobage	Identification	
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CENTRALE TEST ENROBAGE 30042016 v3 [TEST]	Propriétaire : TRACC - SPRIR MP Créateur : aitracc Statut : Actif	
Centrale TRACC [TRACC]		
test industrie 15052016 [test]	Industrie	
🕲 test industrie 15052016 [test]	Empile : * Controle d'acrobace (CED	
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	Adresse de l'industrie	
	Adresse linne 1 :	
	Adresse ligne 2 :	
	Adresse ligne 3 :	
	Code postal : Ville :	
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1.4.1	Ajouter	
🗲 Industries	Code Libellé	Supprimer
	FOL Fuel lourd	3
Agences		
v		

Figure 17 – "Industries" tab

### 3.3.3 « Agencies » tab:

The "Agencies" tab allows you to create EU agencies (Figure 18).

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Ecole ESTP [ESTP]	Creation d'une entité utilisatrice
EU TEST 30042016 [test]	organisauun messages
agence test 30042016 [test]	
	Code : * test 🚺 Libellé : * agence test 30042016 Parent : EU TEST 30042016 Status :
	- Adresse de l'agence
	Adresse ligne 1 :
	Adresse ligne 2 :
2	Adresse ligne 3 :
Créer une agence	Code postal : Vile :
	Enregistrer
🗭 Industries	
Agences	
100Protectory	

Figure 18 – Creating an "Agency"

In order to create an agency, you must:

- 1- Click on the "Agencies" tab
- 2- Right-click in the tree structure and choose "Create an agency"
- 3- Fill in at least the fields marked with a red star
- 4- Click on "Register" 27



### 3.3.4 « Users » tab:

The tab, "Users", allows you to create users and assign them user rights within a EU, an Agency or an Industry. To do this, simply (Figure 19):

- 1- Click on the "User" tab
- 2- Right-click in the tree structure and choose "Create a user"
- 3- Fill in the following fields (name, first name, login and email of the future user).
- 4- Click on "Create" in the "User rights" box
- 5- Choose the profile(s) associated with the user who can have more than one (up to 4). The rights can be of type ABE, AI, BE or CI. Thus, it is possible with a single login to switch from one profile to another.
- 6- Choose the Type of perimeter associated with the profile:
  - a. EU for AI
  - b. EU for EBA
  - c. Industry for IC
  - d. Agency for the BE
- 7- Choose the "Perimeter" associated
- 8- Click on "Save".

	Ismail CAVAGNOL (aceu30042016) ACEU EU TECT 20042016 - Mon comote Déconnexion
🗁 Annuaire	Création d'un utilisateur Utilisateurs Messages
2	Utilisateur Nom : * DUPONT Prénom : * Henri Login : * abe, duponthenri Cogin : * abe, duponthenri Email : * h.dupont@xxxxx.com Statut : En attente de validation Droits de l'utilisateur
Créer un utilisateur	Créer Libellé Profil Type de périmètre Périmètre Editer Supprimer Informations droit Profil : * Type de périmètre * Sélectionner × Périmètre *
Industries	Aucun droit BE
Agences	

Figure 19 – Creating a "User" account under ACEU

The user can therefore have 4 profiles as shown in Figure 20 below.



Annuaire	Modification d'un utilisateur	Ismail (	CAVAGNOL (aceu30042016	ACEU_EU TEST 30042016 * Mon.com	npte <u>Déconne</u> s	ion
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	Droits de l'utilisateur					
	Creer					
	Libellé	Profil	Type de périmètre	Périmètre	Editer	Supprimer
	AI_EU TEST 30042016	AI	EU	EU TEST 30042016	1	1
	ABE_EU TEST 30042016	ABE	EU	EU TEST 30042016	1	1
	CI_CENTRALE TEST ENROBAGE 30042016 v3	CI	Industrie	CENTRALE TEST ENROBAGE 30042016 v3	1	
	BE_agence test 30042016	BE	Agence	agence test 30042016	1	1
Industries Agences Utilisateurs			Enregistr	er		

Figure 20 – A user account with 4 profiles (AI, ABE, BE, CI)

The user account created, (in this case the user "abe\_duponthenri" in the example) is valid and active once the person who received the email has entered his password and activated his account. From that moment on, ACEU no longer sees the user's name appear in blue, but in black.







### 3.4 Login under an Al profile (Industry Administrator)

Once the access email has been received, the Industry Administrator (AI) can choose his password and log in by entering the login that ACEU has assigned to him. He is therefore the SEVE industry manager for his EU. When you arrive on the home page, you will be presented with six tabs on the left side of the screen (Figure 21).



Figure 21 – Al Profile Home Page

3.4.1 « My Account » and « Logout » Options:

The "My Account" and "Logout" options written at the top right of the highlighted window have the same functions as those of the ACD profile (3.2.1)

### 3.4.2 « Products and formulas » tab:

*The "Products and formulas" tab* lists the list of products in the SEVE common database. It also lists the specific products and formulas created by the EU's AIs and CIs as well as formulas shared by other EU countries.

### 3.4.2.1 Creating a Product

The "Products and formulas" tab gives the IA the possibility to create specific products for its EU. To do this, simply (Figure 22):

- 1- Click on the "Products and formulas" tab
- 2- Right-click in the tree structure and choose "Create a product"
- 3- Fill in the following mandatory fields (code, label, product family, work unit, resource type).
- 4- Click on "Validate" then "Save"



	Israel CAVASHOL (abcorn) Lat Cause Austral Marca ( Ether - Mon consteller Décomposes
O first handles B Rest manuage	Création d'un produit
9 Additif pour enrobe	Produits et formules Messages
st 🕅 Agrégats d'enrobés	- Identification 1
a Asphalte	
🕀 🕅 Autre	Code : • hest Ubelle : • hest 0 Propriétaire : Ecole Centrale Nantes / ENPC
autre 02052026 [test]	Cristeur : Indéfini Statut : Broullon
Chaus hydrater [],H300]	
Chaux hydratele CHGAVASSA [LH300]	- tiodini
Creer un produit	Famile : + Audre (AUT) + Unite d'oeuvre : + Toone + Produit rendu 🗇
- Eau (00100)	Description : Test
Goujon: (DI300)	
test 25042016 produit terrassement uniquement [test]	Pour formule de blanc 7 : 10
it R Beton standard	
it in Betons	Type de la reasource
10 🙀 Bitume fuze	Route/VRD C Terrassement
ar 🙀 Bordures et caniveaux	
at A Canalisations	
19 🙀 Deblais réutilisés sur le chantier	Enirgistrer Valder
il: 🔥 Emulsion et mousse de bitume	1
In the Enrobes a froid	
🔟 🙀 Enrobés à ficid / Béton / MTLH	
🗊 🕂 Enrobés bitumineux	
(i) iß Familie test 02052016	
🗟 🦓 Fkisant	
🗊 🕅 Geotextile et geomembrane	
at A formulat	
Produits et Romules	
Data Engins	
🍻 Acheminements	
💓 Transports	
🆋 Industries	
Combustibles	

Figure 22 – Creating a product

- 5- The "Environmental Cost per tonne" framework opens, allowing you to enter the unit environmental costs per tonne on each of the indicators.
- 6- Since the product created is a company-specific product, , it is imperative to attach a supporting document concerning the unit environmental costs.
- 7- Choose the "Resource Type", depending on whether the product is used in projects of type :
  - Road/VRD
  - Earthworks
  - Road/VRD + Earthworks 8
  - Click on "Validate"

NB: It is also possible to duplicate (Figure 23) a product in order to modify the copy, starting from point 2.



	Ismail CAVAGNOC (abepont) AL Existe Centrale Nantes / ENDC + Mon compter Deconnector
O Der familie S Der nomme	Modification d'un produit
al 🙀 Additif pour enrobe	Produits et formules Messages
it it Agrégats d'enrobés	- Identification
st 🕅 Asphalte	Code is mut D Tabellé is mut
🖙 🙌 Autre	The second secon
- 🛑 eutre 02052016 [text]	Litesteur : sospont,scaue : Acter
- Chaui hydratée (LH300)	r Produit
- 😓 Chaux hydratee CHIAVASSA (LH300)	
Chaux vive (LH310)	Partile : * [Aute (AUT) * Unté d'onure : * Toone * Produit rendu III
- eau [D1100]	Description 1 sest
- 🛑 Gaujons (D1300)	Pour formule de blanc ? 1
test [best]	
faut [test]	
ur 🕅 Béton standard	Point stationarchice both and topic
Ist II Bebons	Energie (H0) : * 1203 CO2 (t) : * 0.2 Granulats naturels (t) : * 1 Agrégats d'enrobes (t) : * 0
Lal III, Bitume Rusie	Matériaux recycles (t): = 0 Déblais réutilisés au sein du projet (t): = 0
itir 🚜 Bordures et caniveaux	Autor, justificati
di IB Canalizations	Télécharger un justificaté (Pdf) : [guide.du, biture intecope in (b) Parabalit
str PS Deblais reutilises sur le chantier	Construction and structure and the endowed endows in caller and presented as a second structure and a second structure and a second structure and structu
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in Pitrobes a froid	a file on a research
in Pitrobes a front / Seton / M (12)	Route/VRD 16 Terrassement
Employee and a set 0.0052015	
in the restored text year, 42010	Valider Supprimer
1 B. Gotestia et oborrambrona	
Woduls et tornues	
Das Ergins	
😛 Achemimentents	
ST Transports	
🧨 Industries	
Combustibles	

Figure 23 – Duplication of an existing product

### 3.4.2.2 Aliasing a product

The "Products and Formulas" tab allows the IA to aliase products for his EU. This means copying and renaming a product from the common SEVE database without changing the unit environmental costs of the product. To do this, simply (Figure 24):

- 1- Click on the "Products and formulas" tab
- 2- Right-click on the product to be disposed of and choose "Aliaser"
- 3- Complete the following mandatory fields (code, wording, water content, type of resource).
- 4- Click on "Save and activate"



	Email CAVAGNOL (sbepont) ALEcole Centrale Nantes / ENPC - Mon.compte Deconnexcon
uite and a second se	Hodification d'un produit
in M Granulat	Produits et formules Messages
In M Granulats Naturels	- Identification -
0/2 CUSSET - Pardines [PN MURE]	Code - 2 (SEIG) D Ubellé - 50/2 TESTAMONO
- OV2 CUSSET - SLE IPN MURE	
2/6 CUSSET - Pardines (PN MURE)	Createst i adepunk Pereferce i <u>Sector - ormuna recurso</u> - stadu i braumon
2/6 CUSSET - SLE IPN MURE	- Produit
A/10 CUSSET - SLE (PN MURE)	Terrour en esu (%) : 6
Filler - Pardines [GR120]	
- Filer - SLE [GR120]	Type de la ressource
Filler d'apport (GR120)	The second
GNT - Grave non traitée [GR130]	
Copier	
Granulat naturel (Alia Dupliquer	Enregistrer browlion Enregistrer et activer Supprimer
granulats pour terrai Aliaser	
Gaicul des CEU	
Gravitons Igranulats Laure	
Sables (granulats naturels) (GR150)	
in my unles et tampons	
Unit hydrausque	
or m Lant pour enrope	
in materiaux recycles	
IS IN ALL	
ar m Paves	
In the Products softants	
Produits et formules	
Dan Engins	
🐞 Acheminements	
Iransports	
🍠 Industries	
Combustibles	

Figure 24 – Aliasing a product

### 3.4.2.3 Creating a Bituminous Asphalt Formula

The "Products and Formulas" tab allows the IA to create formulas specific to an asphalt plant belonging to a EU. To do this, simply (Figure 25):

- 1- Click on the "Products and formulas" tab
- 2- Right-click on the "Bituminous Asphalt" family and choose "Create a formula"
- 3- Complete the following mandatory fields (code, wording, type of resource).
- 4- Click on "Save draft"



	Ismail CAVAGNOL (abepont) AL Boste Centrale Names / ENPC = Mon compte Deconnection
na na martina a successor a	Création d'une formule
al 🖪 Asphalte	Produks et formules Messages
at 🖪 Autre	r identification
💥 🐴 Beton standard	
ar 🔥 Betons	Code : * text  Ubelfe : * evrobe text Al pont 13092016 Proprietaire : Ecole Centrale Nambus / EMPC
🗇 🦓 Bitume fluxe	Créateur : Indéfini Statut : Brouillon
🗃 👬 Bordures et caniveaux	
at 🐴 Canalisations	- Formule
🗇 🚯 Déblais réutilisés sur le chantier	Famille : = Enrobes britammeux [EB] * Unite d'oeuvre : * Tonne *
🐵 🚯 Emulsion et mousse de briume.	Description :
🐨 🐴 Enrobés à froid	
🕸 🚯 Enrobes a fiold / Beton / MTLH	
af M Enrobes bitumines	
til: Centrale de Parde	Type de la ressource
ial Centrale SLE	
S CENTRALE TEST E	NUREYAD == Istradement ==
Si Centrale test masing	
si Centrale TRACC	Envegistner browlion Envegistner et activer
(d) Centre de malaxage ECN	
di - Gaz naturel centrale	
B Poste d'enrobage Rouil Lourd	
daha [hfg]	
🕐 envobe (envobe)	
envobe sentrale tracc 07092016 [hest]	
envobé test 18082016 [test]	
Produits et formules	
Network	4
An odus	
🕐 Acheminements	
🖋 Transports	
🍠 Industries	
Combustibles	

Figure 25 – Creating a bituminous asphalt formula

- 5- Choose the family: "Asphalt mixes" (Figure 26)
- 6- Choose the asphalt plant where the formula is manufactured
- 7- Enter the % of fuel (must be 100%)
- 8- Enter the manufacturing temperature

THE MUTCHED IN CHINICE	Ismail CAVAGNOL (abspont) AL scole Centrale Nantes / ENPC - Man compile Discontision
R Asphalte	Literation a une pormule     Mentane     Mentane     Mentane
Autre	
Beton standard	Identification
A Betons	Code : • test 0 Libellé : • enrobé test Al pont 13092015 0 Propriétaire : Ecole Centrale Nantes / ENPC
A liture fore	Crédeur : sheoort Stehrt : Browline Lieu der Die Boklan
in Exclusion at continuous	The second
- Contentions	- Formula
A Dahlair rechtliner nur le chartier	
A Emulsion at movine de bitume	Famile 1 * Envobes bitumineux [E8] * Unité d'œuvre 1 * Tonne *
A Forebar a front	Description :
Torona a non	
Bornhalt Information	
Al-Cantrala de Bardina	
In Controle OF Finance	anuscre - Lembe de vanite pri MUREI - Concessione (%)
AL CENTRAL SET PURCHASE CONFORTS ST	conducture core Policentage (a)
SE CENTRALE (ES) ENHOUNCE GEOGRAFIE VS	Fuellound FOL 0.00 %
in Centrale test masara	Gat naturel GAZ 100,00 %
ili Centrale INACC	Composition
a centre de manage euro	Ajoster Applique
du Oaz nanunei zermaie	Code Libellé Transport Distance (km) Double Fret Transport multimodal Ratio (55) Supprimer
SI Poste d'enrobage Hou Lourd	Aucun produit
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errobe (errobe)	
europe ceutrate parc (1/072010 Itest)	cr fait and on semanal discussions Tonne
evrobe test 18082016 (test)	
encobé test 18082016 (test)	Energie (MI) : * 0 Granulata naturels (t) : * 0 Agrégats d'enrobés (t) : * 0
R Produits et formules	Hatériaux recycles (t) := 0 Déblais réutilisés au sein du projet (t) : * 0
2	Aurun untificatif
Engins	Talleharing un justificial (2011) - Parosure
Achemistements	
Transports	- Type de la ressource
Contraction of the second s	Route/VRD 🕅 Terrasement
🗲 Industries	
Combutthlar	Enragistrat document enragistrat activer Supplimmer

Figure 26 – Fields to be filled in for the creation of a mix formula



- 9- In the "Composition" table, Click on "Add" in order to add components to the formula, a pop-up must open up. (Figure 27)
- 10- Choose the different components in the tree structure then click on "Add" at the bottom of this pop-up.

	Ismail CAVAGNOL (abepont) AL Ecole Centrale Nantes / ENPC - Mon.samula Deconstrant
in the water of the second sec	Creation d'une formule
a m Asphalte	Produits et formules Messages
m M Aute	☐ r Identification
ni M Seton standard	And a lost a los
ar H Betons	Code : Test U Dene : encode retrat pont 2002/202
ti 🕅 Situme fluxe	Grünteur : abepont Statut : Brouilion Lote des EU Publier
ii 🕂 Bordures et caniveaux	
0- 🚯 Canalisations	Formale
🛿 👬 Deblais reublises sur le chantier	Family v   Excepts intractions (EE) = United Converses + Trans.
🕅 Emulsion et mousse de bitume	Interest structures (a)
🕅 Enrobés à froid	Description :
F 🛝 Enrobes à froid / Beton / MTLH	- E Bitume pur 15/25 (B150)
R Eventein bitaminean	- Enume pur 160/220 (\$1400)
al Centrale de Pardine	Industrie 1 * Centrale de Pardine 📃 Bitume pur 20/30 (BI200] In (*C) i * 160
di Centrale SLE	- [2] Brume pur 35/50 [BI250]
TO CENTRALE TEST ENROBAGE 02052016 V3	- El Biturre pur 50(70 [BI300]
al. Centrale text manala	Bitume pur 70/100 (B350)
si- Centrale TRACC	Matériaux recycles
di Centre de maleuage ECN	Companyation Déblais truts recyclés (sans phase de concassage/cnblage) [GR300]
N: Gat natural centrale	Ajouter Appkauer Granulat latier (65400)
ti - Poste d'enroltane Figui Lourd	Code Libelle [2] Granulat recycle (GR200] NO Supprimer
- C 4688 0.667	Aucun produit Granulat schinte (GR450)
ampha (ampha)	test mater recy 2002016 (MAT) Total ratio : [0
accepté control acon 07023016 Accel	a- E Mue
Contract and the second second	r: Coût environmemental pour une Tou B E Paves
envole test 18082010 [test]	A Produkt sortants
<ul> <li>eulope pest T000*010 (pest)</li> </ul>	T Energia (H0) : 7 0
R Produits et formules	Materiaux recycles (1) 1 * Ajouter Annuler
140	Augun juntificatif
togina	Telecharoar un justificatif (Fetr) Fantourn
Acheminements	
- Topproveds	Type de la ressource
and the second	RouteVRD 🐔 Terrassement
Industries	
Combustibles	Enregistier brownon Enregistier et activer Supprimer
Gombustibles	Enregisther brouillon Enregisther et activer Supprimer

Figure 27 – Insertion of the different products composing the asphalt formula

11- Choose for each component, the type of transport and the distance or a multimodal transport (use of a routing). Use the Double-Freight option if trucks are recharging where they are loading. Click on "Apply" then "Save and Activate" at the bottom of the page (Figure 28). The "Multimodal Transport" option gives the possibility to use a routing (See section 4.4.3)


* Hit effett der todes	Creation d'una formula							
Asphalte	Produits et formalies	Messages						
Autre	# Identification							
Béton stansland								
Bétons	Code 1 4 1651	Libelle : enrobé test Al port	13092016 0	Propriétaire : Ecole Centrale Nantes / SNPC	Createur : abeport	Statut : Actif	Liste des EU	Publer
Bitume fuxe								
Bondures et caniveaux	formale							
Canalisations			Description 1					
Débiais réublisés sur le chantier	Familie : * Enrobes bi	tummesi (39) +	Unite d'aeuvre : * Torne -					
Emulsion et mousse de bitume								
Emoles & hold	Internet a Manual of	in the second	Preside within a st	Transform on the Debugstion (1971) and then				
Enrobés à froid / Béton / MTLH	That and the fourname	de Annoe (No Annet)	Combattine Crole Diversities (5)	residentification de residentificación - 260				
Emploes antumoreus			Connections Ch7 (1999)					
Centrale de Pardine			. OVE 16/04/20 - 04/20 - 10/000 - 12					
G errobe test 01092016 (test)			Fire ourd 0.00 16					
enrope test 308062016 (test)	Composition							
G errobé test Al port 13092016 //est	Ajouter	(p) (ut)						
Pantines - 17-09-2015- 885G G/10 tede	Code	Libellé	Transport	Distance (km)	Double	Transport multimodal	Ratio (%)	Supprime
1 Paraines - 17-09-2015- 8855 0/10 here	8250	Bitume our 35/50	Transport par cheme 24t +	260.*	12	8	310	3
Pantines - 17-09-2015- 885G 0/10 fielde	C2100	Granulat natural	Tremport per semi 3/s	50.4	25		50.10	
Centrale SUE	-	area area a						-
CENTRALE TEST ENROBAGE 02052018 V3	G#200	ovanuat region	Transport par sem 245	50		<i>a</i> ,	2 0	-
Centrale test masala	GR118	Gravilions (granulats naturels)	Transport par servi 34t +	50.**		R	20 10	3
Centrale TRACC								Total ratio : 100
Centre de malaxage BON								
Gaz naturel centrale	- Coût environnemental	DOW HIM TOPICS						
Poste d'enrobage Fioul Lourd	Cour to to the state of the state	June and Longe						
💶 ugini (htg)	Emergie (MI) + *	33578E (002 (t) +*	0.010678 Generalizes metureris (t) + * IL7	Agrégata d'enrolida (1) + *	Matériawa renyefes	(t) + *	0	
🕜 enrope (enrope)	Deblars relatives as an	ain sha prepat (E) : *						
· · · · · · · · · · · · · · · · · · ·	Accur Satificatif							
	Tallichanser on aubho	whit (Drift) -	1. Parenter 1					
Produity of formulay								
Ergina	Type of a resource							
Acheminements	Route/VPD # 1	errassement D						
Transports			Valider	Supprimer				
rautres								

Figure 28 – Filling in information for each product

## 3.4.2.4 Creating a cold mix, concrete or MTLH formula

The "Products and formulas" tab allows the IA to create formulas specific to a cold, concrete or MTLH plant belonging to an EU. To do this, simply (Figure 29):

- 1- Click on the "Products and formulas" tab
- 2- Right-click on the "Cold mix" or "Concrete" or "MTLH" family and choose "Create a formula"
- 3- Complete the following mandatory fields (code, label, Family, work unit and resource type).
- 4- Click on "Save".



	3mm CAVAGNOL (xoepont) ALEpone Centrale hanner / ENAC - Mon committe Decontection
O the famile @ Par ungine .	Criation d'une formule
# 🍂 Additf pour enrobe	Produits et formules Mensages
it 🔒 Agrepats d'errobés	r Identification
Asphalte	
of R Autre	Code » * Net 0 Libelle + arrobé à froid 1309/2016 0 Propriétaire - Ecole Centrale Nantes / BIPC Créateur - Statut - Binultion
il A Beton standard	
IT & Batton	Formute
if it strengt up	Description 1
	Farrylle 1* Brobes 5 foot (DT) * Unite d'eaurre 1* Tonce *
in an optimist of carryonics	
ar in Caracitations	
In the Declars reutrices sur le chartier	Type de la ressource
di vis timusion et mousie de bitume	Routs/VRD & Torressment
of its Encloses & Amad	
al Bancimel	
# CENTRAL COOM	Envirop strue Validar
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B test induling zone na wear	
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😟 test (test)	
1 R Envolués à froid / Béton / MTLH	
🗊 👸 Ericbés bitumineux	
ar 💦 Familie test 02052018	
of the Prusset	
iii 🔍 Gésteutile et déomémbrane	
at A Good at	
il & Granulate Maturata	
R Coller at terrores	
at the last index land	
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• • • • •	
1. Aug	
Thestute et terrules	
Don Brigins	
Acteminaments	
🐲 Transports	
🍠 Irdaties	
Combustibles	
	8

Figure 29 – Creation of a cold mix, concrete, MTLH formula

- 5- Choose the station where the formula is manufactured (Figure 30)
- 6- In the "Composition" table, Click on "Add" in order to to add components to the formula, a pop-up must open up.
- 7- Choose the different components in the tree structure then click on "Add" at the bottom of this pop-up.

SAMADHUR MANDOR	Liegton it and formule		
Additf pour errobe	Produits et formules Messages		
Aprégata d'errobés	- Identification		
Asphalte	and the later of the second se		
Autre	Cone ( . Jett 0 Cheeks Europe 5 upic Troatofie	Proprietaire ) Ecale Centrale Inert	ES / Marc Createur I sceptifit Statut I Broutten   Late des SU
A Seton standard	Puble		
A Betoro			
B Bturne Ruse	- formule		
Bordures et caniveaux		Description (	
Canalisations	Familie i = Enrobés & food (67) = Unité d'oeu	rine : * Jonne · ·	
Déblais réutilisés sur le chartier			
A Emusion et mousse de bitume		The second secon	*
Trotes & too	Industrie 1 - Nest Houstne seve v3 beta (text) +		
of Band melande emulation TRADC	Composition Sources Engineer	E 6/10 CUSSET - SLE [PN MURE]	÷
IL CENTRALE TEST BETCH VA	ACCESS (IN ALL ACCESS)	E Filer - Partires (GR120)	
all control advant textual	Autor mental	Filer - SLE [GR120]	natio (n) supporter
ill hard instruction ratios of harts	1.000.00000	E Frer d'apport (GR130)	Total same - D
accepted a finite 10000016 feets		E GNT - Grave non traitée (GR130)	
		- E Granulat nature (GR100)	
a but deni	Coût environnemental pour une Tonne	<ul> <li>If Gravitions (gravulats natures) (SR110)</li> </ul>	
Encoder & Broot / Balance / Milling	Energie (MD) 1 * 0 CO2 (b) 1 * 0	III Sobies (granulats natureis) (GR150)	zychie (t) (* 0
Enober 6 human	Déblais du élégies au sais 6, pontet (*) ;	词 巴 Gries et tampore	
B Exercise text (000ED016		of El Lanthydrauloue	1
A Frankt	Autor julification	10 Lant pour errobé	
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ing onlies at tampons		Alouter	
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Prostuits et formules			
Engins			
Apendeneis			
Transports			
Pardustres			
a second second			

Figure 30 – Insertion of the different products composing the asphalt formula

8- Choose for each component, the type of transport and the distance or multimodal transport (use of a route). Use the Double-Freight option



if trucks are reloading a product leaving the site at the location where they are loading. Click on "Apply" then "Save and activate" at the bottom of the page (Figure 31).

Note: Source: Sour	716404	to at hiere	Trainer Local	Annan							
A system A syst		141,441	and how	And a second sec							
A Jorder A Autor A Martin A Marti	- ident	fication	0								
A Are A Are	Cer	e i + itert	0	Libellé i * errobé a froid 1906/2016	O Progriétain	e : Ecole Centrale Nantes / EVPC Créate	ur i abeport	Statut   Act	# 16	Liste des EU	Publie
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Figure 31 - Information provision for each product

# 3.4.2.5 Publication of a form

The "Products and Formulas" tab gives the IA the possibility to publish formulas belonging to an asphalt mixing plant, a cold mixing plant, a concrete mixing plant or an MTLH belonging to a EU. To do this, simply (Figure 32):

- 1- Click on the "Products and formulas" tab
- 2- Right-click on the family "Asphalt mixes" or "Cold mixes" or "Concrete" or "MTLH" and choose "Publish formulas"
- 3- A window opens automatically asking you to choose the destination of the publication between :
- "Publication in the EU of the member": this gives limited access to publication to the EU of the member only
- "Publication to other EU of SEVE": this gives access to publication to all EU present in SEVE.
  - 4- Click on "Validate".





Figure 32 – Publication of a formula, choice of recipients

- 5- Choose the EU of the member to which to publish the formulas (Figure 33)
- 6- Click on the following at the bottom of page 39



Figure 33 – Selection of user entities for publication

- 7- Choose the formula(s) to be published (Figure 34)
- 8- Click on "Publish"



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Figure 34 – Selection of formulas to be published in the EU

9- A warning sentence informs you of the validation of the publication of the formula (Figure 35)

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NB formulas is taken into account: It is also possible to publish a formula directly in the tree structure (Figure 36):



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Figure 36- Shortcut direct publication of the selected formula

Then follow steps 5, 6 and 9, the formula being already pre-selected.

<u>Reminder</u>: The publication of asphalt formulas to its own EU is mandatory in order to be able to use them under ABE/BE profiles.

# 3.4.3 « Equipment » tab:

This tab only displays the equipment listed in the common SEVE database and those created by the EBAs in the EU. The AI profile cannot create devices within its EU, only the ABE profile can do so (Figure 37).



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Figure 37 – View of all gears present in the EU

#### 3.4.4 « Routes » tab:

The *« Routes »* tab lists the list of current routes created within the EU. Both the routes created by the AIs and the EBAs.

#### 3.4.4.1 Creating a route

The "Routes" tab allows the IA to create routes that can be used when creating formulas. To do this, simply (Figure 38):

- 1- Click on the "Routes" tab
- 2- Right-click on the family in the tree structure .
- 3- Choose "Create a routing"
- 4- Fill in the following mandatory fields (code, wording, type of resource).
- 5- Click on "Save draft"
- 6- Click on "Create a route"
- 7- Fill in the "Label" fields of the route as well as "Percentage" of the route.
- 8- Click on "Save"
- 9- Then create one or more routes within this route 42
- 10- Fill in the "Distance" and "Type of route" fields
- 11- Click on "Save"
- 12- Click on "Save and activate" to complete the route creation.



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Figure 38 – Creating a NB Routing

NB Routing: To better understand the value of the routing, simply take a simple case. Indeed, the percentages to be filled in apply to tonnages and not to distances.

For example, if 80% of the supply (in tonnes) of a raw material is made by "river + rail" transport and 20% by road only, then the creation of a specific routing is extremely useful and simplifying.

## 3.4.5 « Transportation » tab:

The *« Transportion »* tab lists the list of existing routes created within the EU. Both the routes created by the AIs and the EBAs.

### 3.4.5.1 Creation of a transportation :

The *"Transportation"* tab allows the IA to create routes that can be used when creating formulas. To do this, simply (Figure 39):

- 1- Click on the "Transportation" tab
- 2- Right-click on the family in the tree structure .
- 3- Choose "Create a transportation"
- 4- Fill in the fields "Energy (MJ)" and "CO2 (t)" 43
- 5- Click on "Browse" and attach the proof for the creation of this transport (card justifying the values "Energy (MJ)" and "CO2 (t)")
- 6- Click on "Save and activate"



	Modification d'un transport	Ismail CAVAGNOL (attracc) ALTRACC - SPRIR MP	<ul> <li>Mon compte Déconnector</li> </ul>
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Figure 39 – Creating a specific transport

3.4.6 « Industries » tab:

The *"Industries"* tab lists the list of industries belonging to the EU and those shared by the EU. It allows AI to create cold, concrete and MTLH power plants. It can also create mobile asphalt mixing plants.

# 3.4.6.1 Creation of a mobile asphalt mixing plant

The "Industries" tab allows AI to create mobile asphalt mixing plants, simply (Figure 40):

- 1- Click on the "Industries" tab
- 2- Right-click on the family in the tree structure .
- 3- Choose "Create an Industry"
- 4- Fill in the fields Label, Code,
- 5- Choose the family "Asphalt mixing plant": the manufacturing model "black model" is automatically selected and the function "Mobile substation" checked.
- 6- Fill in the fields "Addresses" (Optional)
- 7- Click on "Add" to choose one or more fuels used for the plant.

NB: The fuel utilization ratio must be provided when creating the formula.

8- Click on "Save and activate"



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Figure 40 – Creation of a mobile asphalt plant

It is now possible to create asphalt formulas within this Industry and publish them to EBAs.

# 3.4.6.2 Establish a Cold Mix, Concrete or MTLH Plant

The *"Industries"* tab gives the possibility to the AI to create Cold mix, Concrete or MTLH plants, just click on the "Industries" tab (Figure 41):

- 1- Click right on the family in the tree structure.
- 2- Choose "Create an Industry"
- 3- Fill in the fields Label, Code,
- 4- Choose the family "Cold plant" or "Concrete plant" or "MTLH plant": the manufacturing model "Manufacturing in cold mixing plant" is automatically selected.
- 5- Fill in the fields "Addresses" (Optional)
- 6- Click on "Save and activate"



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i Cantale à foid TRACC (CF Tracc)	Industria         Modile de fabrication ; * Fabrication en c           Adresse de l'industrie         Adresse de l'industrie           Adresse ligne 1 :	entrale de malausge à freid (MALAX) *	
		lider j Supplimer j	
Produits et formules			
Dan Engins			
Acheminements			
💓 Trensports			
🥟 Industries			
Comtrustibles			

Figure 41 – Creation of a cold mix, concrete or MTLH plant

As soon as the creation of a Cold Mix, Concrete or MTLH plant is registered, it is possible to create formulas for Cold Mix or MTLH.

# 3.4.6.3 Sharing an Industry

The *"Industries"* tab gives the possibility to the AI to share industries, in particular within the framework of EIG, it is enough for that (Figure 41):

- 1- Right-click on the "Industries" tab (Figure 42)
- 2- Right-click on an Industry which belongs to the EU
- 3- Choose "Share an Industry"
- 4- Fill in the fields Labelled, Code,
- 5- Choose the USA to which the Industry must be Shared.
- 6- Fill in the "Addresses" fields (Optional)



		Ismail CAVAGNOL (attracc) ALTRACC - SPRR MP	<ul> <li>Mon-compte Déconnexion</li> </ul>	
📾 📥 Centrale de blanc	Partage d'industrie			
👜 🥓 Centrale d'enrobage	Industries Messages			11
🗊 📥 Centrales à béton	- Entité utilisatrice			11.
🖃 📥 Centrales à froid	🚽 📰 ALPHA TP			
- o Centrale à froid TEST (test)	ai 🛅 Amiens Métropole			2
Generale a froid TRACC [CF Trace]	😹 🛅 Annemasse Agglo			1
Poste enrollage à Froid Laurent LASCROUX (LL)	🔐 🛅 ARTELIA			
	🖅 📰 BENEDETTI			
	at E BALET SA			18
	😸 🧮 BONNEFOY GROUPE			
	BRRC BRRC			
	a V CAPISO			
	🖶 🛅 CECA ARKEMA			
	😸 🛅 CEREMA DTedTM/CSTM/DEOST			
	at 🔄 CETE Est LRPC Nancy			
	🖅 📰 CETE Ext LRPC Strasbourg			
	🗟 🛅 CFTE Nord picardie			
	al E CETE Sud Ouest			
	🗟 🛅 CHARJER TP			
	🗄 🛅 COLAS SA			
	🖅 🛄 Conseil Général de Gironde			
	🗿 🛅 Conseil Général de la Dordogne			
	📲 🔲 Conseil Général de la Drome			
AND INCOME.	💷 🔝 Conseil Général de la Somme			
Roduits et formules	si 📰 Conseil Général de l'Ain			
Date Engine	🔅 🛅 Conseil Général de l'Aude			
And reader	🗟 🔄 Conseil Général de l'Hérault			
Acheminements	🗄 🗐 Conseil Général des Yvelines			
	📾 🔝 Conseil Général du Gard			
Iransports	🗟 🖾 Conseil Général Eure et Loir			
	🗟 🔝 Conseil Général Haute Garonne			
- induitives	🔤 🔟 Conseil Général Pyrénées A			
Combustibles	🔤 🔝 Conseil Général Seine et Marne			
	COUDERT TP	Partager		Ψ.

Figure 42 – Sharing an Industry

Thus, the following screen (Figure 43) appears to confirm that the selected industry(s) are shared in the selected EU.

ri -			
		Ismail CAVAGNOL (attracc) AL TRACC - SPRIR MP	- Mon-compte Déconnexion
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🐨 🥜 Centrale d'enrobage	Voici l'industrie qui a bien été partagée sur les entités utilisatrices sélectionnées ;		
🗿 📥 Centrales à béton	Centrale a rold HACC for Entreprise ICTP CK		
ia 📥 Centrales à froid	Voici l'industrie qui a bien été départagée sur les entités utilisatrices sélectionnées :		
G Centrale à froid TEST (test)			
Poste enrobage à Froid Laurent LASCROUX (LL)			
	- 2-		
10 M			
Produits et formules			
he c			
Lingers			
4 Acheminements			
se Transports			
M Industries			
Combustibles			

Figure 43 – Message confirming the share/division of an industry

The US AI profiles can therefore create formulas in the industries that have been shared with them.

<u>NB</u>: Although industries can be shared, the formulas remain very confidential and property of the one who created it within his EU. Forms are only visible if they are published.



The "Fuels" tab lists the list of fuels present in SEVE and those created by the AI. It also makes it possible to create specific fuels.

# 3.4.7.1 Creation of a fuel

The "Fuel" tab allows the CEW to view and create specific fuels. (Figure 44 Figure 41):

- 1- Click on the "Fuels" tab
- 2- Right-click on the family in the tree structure .
- 3- Choose "Create a fuel"
- 4- Fill in the fields Label, Code and emission factor in (tCO2/MJ)
- 5- Click on "Validate

Par famile      Par cogne     Combustibles     Faul constraines (500)	Hoddication d'un comhustible Combustible: Messger		Ismail CAVAGNOL (ekracc) AL_TRACC-SPRIR MP	Mon.compts Disconnoion
Fuel found (FOL)  Gaz naturel (GAZ)	Code : = 152 Dibelié : = Ugnite test sptf	0	Propriétaire : TRACC - SPRIR MP Créateur : a	witracc Statut : Actif
Lignite test spit [132]	Combustible Factour d'émission (tCO2/MJ) : * 0.1			
Créar un	combustible	Valider	Supprimer	
6.4				
Produits et formules	·			
Den Engins				
Acheminements				
See Transports				
🍠 Industries				
Computibles				

Figure 44 – Creating a fuel



# ABE



# 3.5 Connection under an ABE profile (Design Office Administrator)

Once the access email has been received, the Design Office Administrator (AI) can choose his password and log in by entering the login that ACEU has assigned to him. He is in charge of BE projects for his EU.

When you arrive on the home page (Figure 45), you will be presented with six tabs on the left of the screen.



Figure 45 – ABE Profile Home Page

### 3.5.1 « My Account » and « Logout » Options:

The "My Account" and "Logout" options written at the top right of the highlighted window have the same functions as those of the ACD profile (3.2.1)

### 3.5.2 « Projects » tab:

The "*Projects*" tab lists all the projects created within the EU. This allows the EBA to access and modify BE projects.

### 3.5.2.1 Creating a project

The creation (Figure 46) of projects is the purpose of the software and all the steps seen above allow the user with an ABE profile to create a project under good conditions.

- 1- Click on the "Projects" tab
- 2- Right-click on the family in the tree structure.



- 3- Choose "Create a project".
- 4- Fill in the "Label" and "Code" fields
- 5- Indicate the "Nature of the project".
  - Road/VRD: This module concerns road works, various network roads and small earthworks < 50,000 m3 of displaced materials.
  - Earthworks: This module specifically concerns large-scale earthworks > 50,000 m3 of displaced materials.
  - Road/VRD + Earthworks

	Ismail CAVAGNOL (sitned) ABE_TRACC - SPRIK MP - Monocemete Decomption
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🗟 🗢 ARCII - Retraitement en placa à froid à l'émulsion d	Nature du projet
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<ul> <li>Detus Biturminetus a Module Devid (05045) 10% de m</li> <li>Detus Biturminetus Grand Biturme (100 10% de materie)</li> <li>Biturn Biturminetus Minos Tielle A 10% de materiature</li> </ul>	- Prise en compte des indicateurs gestion de l'eau et préservation de la biodiversité Prise en compte des indicateurs gestion de l'eau et préservation de la biodiversité
<ul> <li>Bernin Bitumineur Semi Grunu (8856) 10% de mater</li> <li>Betrin Bitumineur Semi Grunu (8856) à fuit Jaco. 30</li> </ul>	Projet
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/ Projets	Logo entreprise : Factorunt
Produits et formules	
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🥳 Transports	
Agences	

Figure 46 – Environment for project creation

- 6- Check the box "Taking into account water management and biodiversity indicators" (Figure 47)
  - These indicators are automatically taken into account when the choice of Project Nature is "Earthworks" or "Road/VRD + Earthworks".
  - The consideration of these indicators is therefore optional when choosing "Road/VRD" alone.

7- Then fill in at least "Title 1" and the name of the "Contracting Authority" which will be written on the first page of the summary results PDF.

- In addition, it is possible to fill in the following information:
  - o "Customer reference", written on the first page of the PDF
  - o "Title 2", written on the first page of the PDF
  - o "Project Manager", listed on the first page of the PDF
  - o "Date of submission of the offer", written on the first page of the PDF
  - o "Date of issue of the report", entered on the first page of the PDF
  - o "Project Manager Logos", "Client" and company, listed on the first page of the PDF

o "Project description", written on the second page of the PDF



8- Click on "Save".

<u>NB</u>: When project names appear in red, it means that one data is missing (error in one of the formulas for example) and that it cannot be used as it stands.

When it appears in orange, it means that changes have been made since the last time it was used.

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a 🛹 Batter Ritarenesa Minte Teize à 10% de materiane regiões (8866)	Price an compte day indicateurs caption de Teau et missionation de la binduarché	
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Transports	Enregulter // Valider // Supprimer	
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Figure 47 – First project information (code, name, project type, logos...)

- 9- In Project Solutions, a "Basic Solution" is automatically created (Figure 48)
- 10- Click on the "Basic Solution", in order to modify its parameters and enter all the necessary operations.



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Figure 48 – Creating operations in the 1st solution commonly referred to as "basic"

- 11- Renaming (Optional) the Solution (Figure 49)
- 12- Filling in the commentary on the solution (Optional)

13- Choosing the level of commitment regarding the indicators: - "Water conservation".

:This indicator reflects the level of commitment of the company in its offer to preserve the water resource and to enhance the capacity of companies to use recycled water on projects (water from temporary or final wastewater basins and process water).

- o Level 1: The company does not offer any additional commitments beyond legal and contractual constraints.
- o Level 2: The company monitors the withdrawals by making an inventory of the origin (withdrawal from the intake, water bodies or streams, water supply and storage basin (recycled runoff water in the watering system).
- o Level 3: The company monitors the samples as in version 2, but also follows the destination: watering the tracks, water required for compaction, water required for soil treatment, etc.
- o Level 4: The company undertakes to respect a percentage of recycled water over the entire consumption. The insertion of a supporting document is mandatory for commitments 2, 3 and 4. - Biodiversity conservation " The Biodiversity indicator reflects the level of commitment of the company in its offer to preserve this biodiversity. During the works, the companies are committed to preserving biodiversity and ensuring that the functionalities of natural environments, both terrestrial and aquatic, are preserved.
- o Level 1: The company does not offer any additional commitments beyond legal and contractual constraints.
- o Level 2: The company undertakes to deploy biodiversity signage in relation to the specific challenges of the project (sensitive areas, work near watercourses, etc.)



- o Level 3: The company undertakes to deploy biodiversity signage in relation to the specific challenges of the project (sensitive areas, work near watercourses, etc.) and to develop training activities (at least 1/4 hour biodiversity per month)
- Level 4: The company undertakes to deploy biodiversity signage in relation to the specific challenges of the project (sensitive areas, work near water...) and to develop training actions (1/4 hours biodiversity per month) and implement a Biodiversity Insurance Plan (biodiversity management plan = integrated features, final study and monitoring the effectiveness of actions)
- NB: The insertion of a supporting document is mandatory for commitments 2, 3 and 4.
- 14- Click on "Create" in the "Solution Operations" box to create an operation in the solution
- 15- Fill in the "Label"
- 16- Choose the "Type of operation" that differentiates the environmental impacts due to "Road/VRD" operations from those due to "Earthworks" operations in the results synthesis.
- 17- Fill in the description of the operation (Optional)
- 18- Click on "Save", the box "Operation detail" is activated

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🚒 Transports	Energisteren Anvender
	Aucune operation
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Figure 49 – Information on the type of solution operation (earthworks or road/village)

19- In the "Operation detail" box under the "Incoming product" tab, click on "Add" (Figure 50)



Type d'opération Opération de Terrassement						
Opération						
Description : test	🗐 Recherche		×			
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Ajouter Appliquer	🕂 🔳 Bordures et caniveaux					
Produit Editer	Canalisations			Unité d'oeuvre	Quantité	Supprimer
0/2 CUSSET - Pardines     Pardines     Transport par semi 24t	<ul> <li>Déblais réutilisés sur le chantier</li> <li>Emulsion et mousse de bitume</li> </ul>				5 000 * 🕦	1
Déblais issus et réutilisés sur le / Aucun Transport même chantier	<ul> <li>Enrobés à froid</li> <li>Enrobés bitumineux</li> </ul>				70 000 * 🕦	3
Granulat recyclé / Transport par semi 24t	Granulats Naturels     Grilles et tampons     Liant hydraulique	Ajouter Annuler			30 000 * 🚺	3

Figure 50 – Inserting products and incoming formulas on the site

- 20- After selecting the different products, "Click" on "Add" (Figure 51)
- 21- Choose the "Type of transport" for each of these products as well as the "Distance (km)" covered to the site (e.g.: Central Worksite or Quarry-Construction Site)NB: It is possible to activate the Double-freight function if necessary.

Or

Choose a "Multimodal Transport" by pressing (+) to select a route (see 4.4.3)

- 22- Enter the "Quantity (t)" for each of the materials
- 23- Click on "Apply"

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- Grade emphase a front - 1008 - 108	Opération												
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Figure 51 – Information for each of the incoming products

24- In the "Operation Details" box under the "Machines" tab, click on "Add" (Figure 52)



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Tombereau rigide (40 à 50t) (travaux de terrassement) Le temps d'utilisation d'un engin est de 7k/j	Repoteuse     Recyclage en place à froid     Répandeuse / Gravilloneur     Transport sur chantliers de terrassements     Aiguiter     Anguler	E.		•	14

Figure 52 – Inserting the machines present on the site

- 25- After selecting the different machines, "Click" on "Add" (Figure 53)
- 26- Enter the "Number of hours (h)" or "Number of days (j)" of use associated with the "Quantity (t)" previously entered in the "Incoming products" tab for each machine.
- 27- Click on "Apply"

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Figure 53 – Information on the number of days or hours of use on the entire site

28-In the "Operation details" box under the "Outgoing products" tab, click on "Add" (Figure 54)



Identification Libellé : • Opération de Terrassement	Créateur : aitracc	
ype d'opération Opération de Terrassement		
Description : test Description : test Description : test Description : test Description Produits entrants Engins Produits sortants		×
Ajouter Appliquer Produit Editer Déblais inertes destinés au recyclage Transport par semi 24t		Unité d'oeuvre Quantité Supprir

Figure 54 – Inserting products leaving the site

- 29- After selecting the different products, "Click" on "Add" (Figure 55)
- 30- Choose the "Type of transport" for each of these products as well as the "Distance (km)" covered to the site (e. g.: Central Worksite or Quarry-Construction Site)

<u>NB</u>: It is possible to activate the Double-freight function if necessary.

Or

Choose a "Multimodal Transport" by pressing (+) to select a route (see 4.4.3)

- 31- Enter the "Quantity (t)" for each of the materials
- 32- Click on "Apply"
- 33- Click on "Save"

Identification								
Libellé : * 🕻	Opération de Terrassement	Créateur : aitracc						
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Opération								
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۲	Déblais inertes destinés au 🧪 Transport par semi 24t recyclage		50 * 🚯	🗏 🚯 🍳	Tonne		1 200 * (1)	and the second s

Figure 55 – Information on each of the outgoing products

34- Repeat steps 14 to 33 as many times as there are operations in the solution. Once the solution is finished, click in the tree structure on your project, here: SEVE v3.



35- In the "Project Solution" box, click on "Create" to add the alternative solution that will be compared to the first one.

<u>NB</u>:

- It is possible to compare a maximum of 6 solutions on the same project.
- For reasons of speed, it is possible in the tree structure, by right-clicking on "Duplicate", to duplicate a solution (a project or an operation elsewhere) and modify its fields (Label, quantities, distance...).
- 36- Fill in the "Label" of this new solution.
- 37- Repeat steps 12 to 34 for this new solution

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cours	Projet SEVE v3	
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P Beton Bilammana a Modale Deve (BBM) 10% de sia		
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<ul> <li>Batun Bitanonius Minis Talde à 10% de statemente.</li> </ul>	24unon ne baie	
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<ul> <li>Betim Bégemeine Christies &amp; Mediule Deve (EME) 30°.</li> </ul>	Dossier : En cours * Sous-dossier : SEVE v3 *	
Companyon III a l'analisin is. Rabologe - Rechart	Date de remise de l'offre : 29/09/2016 Date d'émission du rapport : 20/09/2016	
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roduits et formules	Logo entreprise : 🔨 👔	
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Figure 56 – The first solution is finished, and visible in the tree structure

At this point the 2 solutions are created (Figure 57), so:

- It is possible to visualize in the tree structure, the project, the 2 solutions of the project, the different operations of each of the 2 solutions as well as the incoming products, the machines, the outgoing products for each operation.
- It is possible to compare them in the "Scenario" tab



	* Projet Scénarios Messages	
- Solution de here	Identification	
a Operation de ferminent		
🗊 🛷 Produits entrants	Code i = 18-252-1 0 Libelé i = Projet SEVE vi Propriétaire i TRACC - SPRIR MP Créateur	1 Bitract
0/2 CUSSET - Pardines	Shatut : Actif	
Déblais issus et réublisés sur le même chantier		
Granulat recyclé	<ul> <li>Neture du projet</li> </ul>	
🗐 🖢 Engini	Route/VRD 🖉 Terrassement 🗹	
Petite niveleuse (<14t) (travaux de terrassement)		
Tombereau rigide (40 à 506) finavaux de terrassement)	Prine en compte des indicateurs gestion de l'eau et prénervation de la biodiversité	
🗟 🛷 Produits sortants	Prise en compte des indicateurs gestion de l'eau et préservation de la biodiversité 🔣	
Déblais inertes destinés au recyclage		
in a Operation de Route	Solutions du projet	
🗐 📹 Produits entrants	Crées	
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🕼 🏣 Engins	Solution de base	3
Atelier de mise en œuvre d'enrobés grande cadence - 2000 1/j	Solution variante	7
🚽 🚜 Produits sortants		
Deblais inertes destinés au recyclage	Projet	
- Salullan vallerte		
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Déblan issur et réstélisés sur le même chantier Granulat recyclé Déblan issur et réstélisés sur le même chantier		
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Débisis Issue et récélinés sur le même chardier Granubit recyclé De Engins Pette nitreteues (c.410) (frances de terrassement) Tonbreneus rigide (b) à 500 (frances de terrassement)	Date de remise de l'offre : 2000/2015 III Date d'émission du rapport : 20/20/2015 III	
Débàla Isua et réactivés sur le même chardiar Granubit regité De Engine Potite Interleure (<140) (francau de terrassement) Tombresou rigité de 5500 (francau de terrassement) Tombresou rigité de 5500 (francau de terrassement)	Date de remae de l'offre : 2000/2016 III Date d'émission du rapport : 2000/2016 III	
Debala Insue et réactifiers sur le même chandrer Granubt regide By tengins Prote invience (<48) threasur de ternassement) Tomberseu rigide HO à S0) threasur de ternassement) Tomberseu rigide HO à S0); threasur de ternassement) By tengins interts actimits au registage	Date de remise de l'offre : 2000/2016 III Date d'émission du repport : 2006/2016 III Logo maître d'œuvre : 2000 III III Logo dient : Sten	
Débáin issue et réschirés sue le même chandlar     Granubt rengté     Granubt rengté     Conduct rengté     Conductant et fuid (francus de terrassement)     Tombereau inglé H (b 350) (francus de terrassement)     Débáin innette definies sue rengtispe     Conductant de funde	Date de remise de l'offre : 2000/2015 III Date d'émission du rapport : 2000/2015 III Logo maitre d'oeuvre : 2000 III Date d'émission du rapport : 2000/2015 III Remoin	
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Débisis Issue et réclinés sur le même chandler     Granubi recycle     Granubi recycle     Canubi recycle     Potte interferus (-148) (franus de terrassement)     Trombreux rigite M0 308 (franus de terrassement)     Débisis innets de terlassement)     Débisis innets de terlassement     Podults socialits     Podults socialits     Débisis innets de terlassement     Débisis     Podults socialits	Date de remise de l'offre : 2000/2016 III Date d'émission du report : 2000/2016 III Logo maitre d'œuvre : Sanda Assume Logo entregras :	
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Débisi Issue et réclimés sur le même chardiar     Granubi recipié     Engine     Potte invieture (-148) (treaux de terrassement)     Trombreux rigite /63.300 (treaux de terrassement)     Trombreux rigite /63.300 (treaux de terrassement)     Débisis instruit de finice     Débisis instruit de finice     Poduits instruit de finice     Poduits instruit de finice     Poduits anternation     Bold State State     Poduit anternation     Bold State State     Poduits anternation     Poduits anternation     Poduits anternation     Bold State     Poduits anternation     Poduits anternation     Bold State     Poduits anternation     Poduits anterna	Date de remise de l'offre : 2000/2016 III Date d'émission du report : 2000/2016 III Logo maître d'œuvre : 2000/2016 III Date d'émission du report : 2000/2016 III Logo maître d'œuvre : 2000/2016 III Date d'émission du report : 2000/2016 III Remission Logo entreprise Vice III Date d'émission du report : 2000/2016 III Remission	
Debala issue of nicellaris sue la même chandlar     Granubit rengté     Granubit rengté     Granubit rengté     Granubit rengté     Servieus d'Alt (francus de terrassement)     Tombereau inglé H (d) Stolg (francus de terrassement)     Debala instrict adations au rengtage     Acteur de mone en oscience d'emobles grande cadence - 2000 1()     Belage	Date de remae de l'uffre : 2000/2016 III Date d'Amission du rapport : 2000/2016 III Logo mattre d'ouvre : 2000 Annuel Logo entregene : 2000 Paragene	
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Figure 57 – Creating the 2nd solution commonly called "variant"

- 38- Click on "Scenario" (Figure 58)
- 39- Click on "Create" a scenario
- 40- Click on "Save" 59

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🕼 🕼 Engins	Projet SEVE v3
<ul> <li>Petite niveleuse (&lt;141) (travaux de terrassement)</li> </ul>	Projet Scenanos Messages
Tombereau rigide (40 à 501) (travaux de terrassement)	Semanos du projet
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🚔 🕽 Engina	
Atelier de mise en œuvre d'enrobés grande cadence - 2000 t/j	Sténario
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Déblais inertes destinés au recyclage	
🕀 🖷 Solution valuete	
👾 🗃 Operation naturita da Terraconicati	Commentaires dans le chapitre "Tableau des résultats" :
🚎 🛫 Produits entrants	
0/2 CUSSET - Pardines	
Déblais issus et réutilisés sur le nême chantier	
Déblais issus et réutilisés sur le même chantier     Granulat recyclé	Commentaires dens le chaptre "Présentation commuire des solutions" :
Déblais issus et réutilisés sur le mème chantier Granulat registé Si Die Engine	Commentaires dure le cheptre "Présentation zommaire des solutions" -
<ul> <li>Débais isus et réutilisés sur le nême d'antiter</li> <li>Ganulat registé</li> <li>Le trans</li> <li>Tapin</li> <li>Pitite niveleuse (+141) (transus de terrassement)</li> </ul>	Commentaires dans le sheptine "Présentation sommaine des solutions" :
Débiais issus et réutilités sur le même drantier     Granutat registe     Débiais issue de l'autorités sur le même drantier     Grantier moierue (-14t) (tranus de terrassement)     Tombereau rigide 40 à 50t) (tranus de terrassement)	Commentaires dans le shaptre "Présentation sommaire des solutions" :
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Figure 58 – Creating a comparison scenario (Only between the first 2 solutions for example)

41- Click on "Synthesis" of the results (Figure 59)



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Figure 59 – Generating the synthesis of the results

The summary of the results is displayed directly on your web page in the following form, it is possible to view the results on the 4 quantitative indicators (Energy (MJ) (Figure 60), Greenhouse gas emissions (téq CO2) (Figure 61), Conservation of natural resources (tonne) (Figure 62) and tonne.kilometre (tonne.kilometre) (Figure 63))

- A comparative table of solutions over all phases of the project life cycle (from extraction to implementation)
- Several graphs to better visualize the differences between the proposed solutions and between the different phases







Figure 60 – Results on the Energy indicator (MJ)





Figure 61 – Results on the Greenhouse gas emissions indicator (t CO2 eq.)





Figure 62 – Results on the Resource conservation indicator





Figure 63 – Results on the Tonne.kilometer indicator (t.km)

The summary of results also includes information from the "Management of Water" and "Biodiversity conservation" (Figure 64):

- Level of commitment
- Document justifying the commitment



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Figure 64 – Information on the "Water Management" and "Biodiversity Preservation " indicators

32 Click on "Verify data", a pop-up is automatically generated (Figure 65) to view all the input or user-provided data. It is also possible to generate an EXCEL extraction of the input data by clicking on "EXCEL Extraction" at the bottom of the page.

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Figure 65 – Verification of data and extraction of project input data from file EXCEL

43- Click on "Generate summary PDF" of the results, a pop-up opens automatically to open the PDF (Figure 66).



Figure 66 – Extracting the results summary PDF



44-Extracting the EXCEL results summary file, a pop-up opens automatically to open the EXCEL file (Figure 67).

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Figure 67- Extraction of the EXCEL file summarizing the results

3.5.3 « Products and formulas » tab:

This tab only displays the products and formulas listed in the common SEVE database (Figure 68) and those created by AIs in the EU. The EBA profile cannot create products or formulas within its EU, only the AI profile can do so.



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Figure 68 – Viewing all products in the EU and formulas published in the EU

## 3.5.4 « Machines and worshops » tab:

The *"Machines and workshops"* tab lists the list of machines and workshops in the SEVE common database. It also lists the list of machines and workshops created by the EU EBAs.

#### 3.5.4.1 Creation of a gear

The *"Machines and Workshops"* tab gives the EBA the possibility to create specific machines for its EU. To do this, simply (Figure 69):

- 1- Click on the "Machines and workshops" tab
- 2- Right-click on the tree structure and choose a "Create a machine"
- 3- Fill in the following mandatory fields (code, label, gear family, resource type).
- 4- Click on "Save draft"



	Ismail CAVAGNOL (asteros) ABE TRACC - 1998 MP Moniconsts Decomption
O Par tamile S Par orgine	Création d'un engin/atèlier
🗊 🍃 Arroseuse / Balayeuse	Engins et ateliers Messages
a beliers d'application et mise-en-œuvre divers	☐ Identification
🗊 늘 Ateliers de mise-en-œuvre des enrobés	Cole : D Ibdda : TRAC - SPEN ME
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isl 🖢 Carrion sur chantler	- Engle -
a b Chargeuse	
isi De Compacteur	Familie : * Selectionnet * Atelier :
al De Epandeur / Malaxeur	Description 1
al 🐎 Finiaseur / Alimentateur	
🗊 🞾 Pelle	
11 🞾 Raboteuse	Le temps d'utilisation d'un engin est 7 h/j
al 🕽 Recyclage en place à froid	
al 🕽 Répandeuse / Gravilioneur	Type de la ressource
🗟 🎾 Transport sur chantiers de terrassements	Posta/UED Terrorement
	Evergister broatlan
I Projets	
noduits et formules	
ggg Engins er stellers	
🐞 Acheminements	
Transports	
Agences	

Figure 69 – Creating a machine

- 5- Filling in the fields (Energy (MJ) and CO2 for a day of use) or reciprocally (Energy (MJ) and CO2 for one hour of use), knowing that the operating time of a machine is 7 hours/day with an idling rate more or less high depending on the type of resource.
- 6- Click on "Browse" and insert a PDF file justifying the environmental costs.
- 7- Click on "Save and activate".

	Ismell CAVAGNOL (wined ABE_TRACC - SPERM MP + Mon-sumple Deconnection
O Par famille	Croation if use equity/atelliar
De Arroseuse / Balayeuse	singina et postiera interanges
Arroseuse (AB200)	↑ Identification
Balayeuse aspiratrice [AB100]	Code : * Sest 🚺 Libellé : * test 🚺 Propriétaire : TRACC - SPRIR MP
test [test]	Créateur : aitracc Statut : Brouillon
Ateliers d'application et mise-en-œuvre divers	
	- Ingin
C Autre	Farries - American / Statement / Alto - Advisor - Advisor -
De Bouteur / Niveleuse	
Camion sur chantier	Description 1
i 🕼 Chargeuse	
a 🕞 Compacteur	
🕼 Epandeur / Malaxeur	Le temps d'utilisation d'un engin est 7 h/j
🕩 Finisseur / Alimentateur	
De Pelle	Coût environnemental pour une journée
🖙 Raboteuse	Previo (MU) * 45 CO2 (0) * 7
i 🕼 Recyclage en place à froid	
🖙 Répandeuse / Gravilloneur	Aucun juntificatif
ti 🕼 Transport sur chantiers de terrassements	Télécharger un justificatif (Pdf) i
	- Coût environnemental pour une heure
	Emergie (MJ) : * 6.42857142 CO2 (t) : * 0.28571428
baser.	Type de la resource
Projets	Route/NED 🕷 Terrassement 🗇
Produits et formules	Emergistrec brouillon Enregistrer et activer Supprimer
tingens et atteliers	
🐌 Acheminements	
💕 Transports	
Agences	

Figure 70 – Environmental cost information for machinery



The "Machines and Workshops" tab gives the EBA the opportunity to create specific workshops for its EU. To do this, simply (Figure 71):

- 1- Click on the "Machines and workshops" tab
- 2- Right-click on the tree structure and choose "Create a workshop"
- 3- Fill in the following mandatory fields (code, wording, gear family, resource type).
- 4- Click on "Save draft".

	Isimal CAVAGNOL (antracc) ABE_TRACC - SPRIS kip + Mon.compte Decomesion
O Par familie 🔍 Par origine	Création d'un engin/atelier
🚽 🚂 Arroseuse / Balayeuse	Engins et ateliers Messages
a b Ateliers d'application et mise-en-reuvre divers	- Identification
🗟 🗽 Ateliers de mise-en-œuvre des enrobés	Code : * Sect. A Libellé : * steller sect. A Encondèsie : TEACC - SERIE NO
😡 ATELJER (ATELJER)	
😨 Atelier de mise en oeuvre d'enrobés a la main-60 t/j [AEMADV]	Createur i attracci statur i prourion
- De Atelier de mise en oeuvre d'enrobés grande cadence - 2000 t/j (AEGC2000)	- Engin
Atelier de mise en oeuvre d'envobés moyenne cadence - 700 t/ (AEMC700)	
- De Atelier de mise en oeuvre d'enrobés Petite cadence - 200 tJ [AEPC200]	Famile : * (Ateliers de mizerem deume c. **) Atelier : **
🕝 atelier test [hest]	Description :
al 🕼 Autre	
al 🞾 Bouteur / Niveleuse	
al 🕼 Camion sur chantier	
🗟 🕼 Chargeuse	- 100
al 🖢 Compacteur	Avaluer
si 🕽 Epandeur / Malaxeur	Ajouter
Einisseur / Almentateur	Code Libellé Quantité Unité d'oeuvre Editer Supprimer
a 🕼 Pele	Aucun engin
a 🕼 Raboteuse	
a De Recyclage en place à froid	Caût environnemental pour une journée
al 🞥 Répandeuse / Gravilloneur	Energie (M3) : * 0 CO2 (0 : * 0
🖶 🕽 Transport sur chantiers de terrassements	
	Coit environnemental pour une heure
	-Energie (MJ) : * 0 CO2 (0 = * 0
100 C	
Projets	
10 x x x x x x x x x x x x x x x x x x x	Type de la ressource
13 Produits et formules	Route/VRD # Terrassement
Ngs. Engins et ateliers	
🌞 Achemisements	Enregistrer broutlion Enregistrer et activer Supprimer
💓 Transports	
agences	

Figure 71 – Creating a gear

- 5- Click on "Add" in the "Workshop" box to add gear in the workshop (Figure 72).
- 6- Choose the gears and click on "Add"
- 7- 7- Fill in the following mandatory fields (code, label, gear family, resource type).



	Limai CAVAGNOL (where) ABE_TRACC-SPRIR MP - Mon.sampter Deconstruction	
O Par tamite O Par origine	Creation of un engine Alecter	
💷 🐲 Arroseuse / Balayeuse	angura ta Anima a Hittanget	
al De Ateliers d'application et mise-en-œuvre divers	☐ Identification	
al 🔉 Ateliers de mise-en-œuvre des enrobés	Code : • hest () Libellé : • latelier test () Propriétaire : TRACC - SPRIR MP	
- C ATELIER (ATELIER)	Crésteur : aitracc Statut : Brouillon	
Atelier de mise en oeuvre d'enrobés à la main-60 t/j [AEMADV]	Participation of the second se Second second sec	
Atelier de mise en œuvre d'enrobés grande cadence - 2000 t/j [AEGC2000]	⊂ Engin	
Atelier de mise en oeuvre d'enrobés moyenne cadence - 700 t/j [AEMC700]	Evently - * (Abdust de surgementer et al. (Addust - 2)	
Atelier de mise en deuvre d'enrobés Petite cadence - 200 tJ [AEPC200]		
- Carlier test (test)	Description : X	
ni 😂 Autre	Compacteur monobile VM3 (CO500)	
🔊 🞥 Bouteur / Niveleuse	Compacteur tandem vibrant VI (CO100)	
al 🎥 Camion sur charter	IV Compacteur tandem vibrant V2 (CO200)	
al De Chargeuse	Petit compacteur Im à 1,20m (C0700)	
al 🐎 Compactaur	Epandeur / Mataveur	
a 🍃 Epandeur / Malaxeur	Ajouter 🗧 🗮 Finiseur / Alimentateur	-
is De Finitseur / Alimentateur	Code Libi Abrentateur (ALLOO) Supprimer	_
al De Pelle	Aucun engin IV Enisseur (15 a 20t) (F220)	2
n 🐎 Raboteuse	Finisseur (20 a 25t) (P300)	
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10 De Tracsport sur chantiers de terraisements	al Caboteuse	
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	Coŭt environnemental pour une	
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trigins et atéliens		
le Acheminements	Enregistrer browlion Enregistrer et activer Supprimer	
Transports		
R Agences		

Figure 72 – Machine information in the workshop

- 8- Click on "Edit" (Figure 73) to modify the number of each
- 9- The environmental costs for a day and for an hour are automatically calculated according to the environmental costs of each machine.
- 10-- Click on "Save and activate".

0				Ismail CAVAGNOL (aitracc)	ABE, TRACC	SPRIR MP	<ul> <li>Mon-comp</li> </ul>	te Décon	necon	
O Par fami	ile 🔍 Par origine	and the second second	1							
De Arroseuse / Balayeuse		Identification	NAME OF A DESCRIPTION			1.000	112002			
Ateliers d'application et mise-en-ceuvre die	/011	Code : • test	Libele : • steller test			0	Proprietaire : TRACC	- SPRIR M	P	
De Ateliers de mise-en-ceuvre des enrobés		Créateur : aitra	ee Statut : Brouillon							
- 🌀 ATELIER (ATELIER)										
💿 Atelier de mise en œuvre d'enrobés à l	la maiev-60 t/j (AEMAIN)	Engin								
- 🧟 Atelier de mise en œuvre d'enrobés gr	ande cadence - 2000 t/j (AEGC2000)	Familie : * lidte	dem de mise en genner 🐐 🛛 Ateler :	2						
Atelier de mise en œuvre d'enrobés m	oyenne radence - 700 t/j (AEMC700)									
Atelier de mise en œuvre d'enrobés Pe	etite cadence - 200 tJ (AEPC200)	Description ±								
obelier test [test]										
- De Autre		1								
- De Bouteur / Niveleuse										
De Camion sur chantier		- Atoliar								
De Chargeuse										
Compacteur		Ajouter	1							
De Epandeur / Malaxeur	Créer un engin	Co	de Libellé		Quantité	Unité d'oeuvre			Editer	Supprimer
Enisseur / Alimentateur	Créer un atelier	• • • • •	7200 Compactaur tanilem witward VI		1	Nonibre d'éngris				
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i 🐌 Recyclage en place à froid i 🐌 Répandeuse / Gravilloneur			200 Compacteur tandem vibrant V2	Enregistrer	Annuler 1	Nombre d'engins	6	• •	1	3
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Recyclage en place à froid     Répandeuse / Gravilloneur     Transport sur chantiers de terrassements		e coit environme	2000 Compacteur tandem vibrant V2 2000 Finisseur (25 a 20)	Enregistrer	Annuler 1 1	Nombre d'engins Nombre d'engins	i M	•••	1	7
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P Reyclage en place à foid  Repondouse / Gravilloneur  Transport sur chantiers de terrassements  P Projets  P Projets  P Projets  P Projets	- <b>1</b> -	Coût environner Energie (10) :	2200         Compacteur tandem vibrant V2           200         Finisseur (15.a.20)   mental pour une journele *           *         14.995         CO2 (1) + *   mental pour une heure	Enregistrer	Annuler 1 1	Nombre d'engins Nombre d'engins		•••	1	7
P Reyclage en place & froid Repositouse / drawlioneur P Transportsur chantiers de terrassements P Projets P P P P P P P P P P P P P P P P P P P		Cojt environme Energie (H0) : Cojt environme Energie (H0) :	D200         Compactnum randem vibrant/ V2           Remission (13 à 200)         Remission (13 à 200)           mental peur une journie            *         34 995         CO2 (1) † *           mental pour une heure             *         21/2/8574295         CO2 (1) † *	Linepister.)	Annuler 1 1	Nombre d'engina Nombre d'engina	6 P	•••	1	7
Registing en place à froid     Repondence / drawlioneur     Populs     Populs     Populs     Populs     Populs     Registing et demaules     Registing et demaules		Cojt environne Energie (H0) : Cojt environne Energie (H0) :	2200         Compactnue randem vibrant V2           Britister (13 à 200)         Finister (13 à 200)           mental pour une journée         -           *         14 965         CD2 (0) + *           mental pour une heure         -           *         2 13/2/35/34285         CD2 (0) + *	Link)	Annule: 1 1	Nombre d'engina	6 19 	•	1	7
		Coit environme Energie (HO) : Coit environme Energie (HO) : Type de la resso	2200         Compactnum random vibrant V2           Britister (13 a 200)         Finister (13 a 200)           mental poor use journels         *           14 965         CD2 (0) + *           mental poor use heure         *           *         2.122/35734285         CD2 (0) + *	L1042	Annule:	Nombre d'engins		•••	1	7
		Coût environner Energie (HO) : Coût environner Energie (HO) : Type de la resso Roxte/HFD @	2000         Compactnue randem vibrant V2           Brinister (13 à 200)         Brinister (13 à 200)           mental pour une journée         *           1 à 905         C02 (0) † *           mental pour une heure         *           *         2 102/25734285         C02 (0) † *	Links	Annule 1 1	Nambre d'engina		•••	1	7
		Coût environne Energie (HO) : Coût environne Energie (HO) : Type de la resso Router/ND Ø	2000         Compactner tanklem vibrant V2           mental poor une journée         *           *         14 965         CO2 (0) + *           mental poor une besize         *           *         2 107 85734295         CO2 (0) + *           orce	L1942	Annuler 1	Nombre d'engina		•••	/	7

Figure 73 – Choice of machine quantities in the workshop


The "Routes" tab lists the list of current routes created within the EU.

#### 3.5.5.1 Creating a route

The creation of a routing under the ABE profile works in the same way as under the AI profile (see 3.4.4)

<u>NB</u>: In order to better understand the interest of the routing, it is sufficient to take a simple case. Indeed, the percentages to be filled in apply to tonnages and not to distances.

For example, if 80% of the supply (in tonnes) of a raw material is made by "river + rail" transport and 20% by road only, then the creation of a specific routing is extremely useful and simplifying.

#### 3.5.6 « Transport » tab:

The creation of a transport under the ABE profile works in the same way as under the AI profile (see 3.4.4.5)

Ismail CAVAGNOL (atracc) ABE\_TRACC - SPRIR MP

#### 3.5.7 « Agencies » tab:

This tab only displays (Figure 74) the agencies that belong to the EU.

# Entreprise CAVAGNOL TP [CAVAGNOL]		
TRACC - SPRIN MP [TRACC]		
- agence TRACC - SPRIR MP [TRACC]		
	1	
See Projets		
Projets		
Projets		
Projets Produits et formules Ingins et stellert Adheminements		
Projets Produits et formules Engliss et afeliers Acheminements Transports		

#### Figure 74 – Viewing agencies with ABE profile







# 3.6 Connection under a CI profile (Industry Manager)

Once the access email has been received, the Industry Manager (CI) can choose his password and log in again by entering the login that ACEU has assigned to him. He is therefore the head of an industry of an EU. When you arrive on the home page, you will be presented with 4 tabs on the left side of the screen (Figure 75).



Figure 75 – CI Profile Home Pagel

# 3.6.1 « My Account » and « Logout » Options:

The "*My Account*" and "Logout" options written at the top right of the highlighted window have the same functions as those of the ACD profile (3.2.1)

# 3.6.2 « Products and formulas » tab:

*The "Products and formulas" tab* lists the list of products in the SEVE common database. It also lists the specific products and formulas created by the EU's AIs and CIs as well as those shared by other EU countries.

#### 3.6.2.1 Aliasing a product

The "Products and formulas" tab gives the CI the possibility to aliase products for itsEU. This means copying and renaming a product from the common SEVE database without changing the unit environmental costs of the product. The operation is the same as in 3.4.2.2.2



The "Products and formulas" tab gives the CI the possibility to create formulas specific to the single asphalt plant to which it belongs. The operation is the same as in 3.4.2.3.3.

#### 3.6.2.3 Creating a cold mix, concrete or MTLH formula

The "Products and formulas" tab gives the CI the possibility to create formulas specific to the single cold workstation, concrete or MTLH to which it belongs. The operation is the same as in 3.4.2.4.

# 3.6.3 « Routes » tab:

The "Routes" tab lists the list of current routes created within the EU.

# 3.6.3.1 Creating of a routing

The operation is the same as in 3.4.2.3.

<u>NB:</u> In order to better understand the interest of the routing, it is enough to take a simple case. Indeed, the percentages to be filled in apply to tonnages and not to distances.

For example, if 80% of the supply (in tonnes) of a raw material is made by "river + rail" transport and 20% by road only, then the creation of a specific routing is extremely useful and simplifying.

# 3.6.4 Transport » tab:

The *"Transport"* tab allows you to view only the list of transports present in the common SEVE database and the transports created within the EU.

# 3.6.5 « Industries » tab:

The *"Industries"* tab lists the list of industries belonging to the EU and those shared by the EU. No action to create or share is possible for the IC.



# BE



# 3.7 Connection under a BE profile (Design Office)

Once received the accession email, the Design Office (BE) profile can choose its password and connect by entering the login that ACEU has assigned to it. He is therefore the researcher in charge of studies within an Agency belonging to the EU. When you arrive on the home page, you will be presented with 4 tabs on the left side of the screen (Figure 76).



Figure 76 – BE profile home page

# 3.7.1 « My Account » and « Logout » Options:

The "My Account" and "Logout" options written at the top right of the highlighted window have the same functions as those of the ACD profile (3.2.1)

# 3.7.2 « Projects » tab:

The "Projects" tab lists all the projects created within the EU. This allows the EBA to access and modify BE projects.

#### 3.7.2.1 Creating a project

The creation (Figure 46) of projects is the purpose of the software and all the steps seen previously allow the user with ABE profile to create a project under good conditions. The way to create a project is the same as under an ABE profile (see 3.4.2.3)



This tab only displays the products and formulas listed in the common SEVE database (see Figure 68) and those created by AIs in the EU. The BE profile cannot create products or formulas within its EU, only the AI profile can do so.

# 3.7.4 « Machines and workshops » tab:

The *"Machines and workshops"* tab lists the list of machines and workshops in the SEVE common database. It also lists the list of machines and workshops created by the EU EBAs.

# 3.7.4.1 Creating a workshop

The *"Machines and workshops"* tab allows the BE to create specific workshops for its EU. The operation is the same as in 3.5.4.2.

# 3.7.5 « Routes » tab:

The "Routes" tab lists the list of current routes created within the EU.

# 3.7.5.1 Creating a route

Creating a routing under the BE profile works in the same way as under the AI or ABE or CI profile (see 3.4.4)

<u>NB</u>: In order to better understand the interest of the routing, it is sufficient to take a simple case. Indeed, the percentages to be filled in apply to tonnages and not to distances.

For example, if 80% of the supply (in tonnes) of a raw material is made by "river + rail" transport and 20% by road only, then the creation of a specific routing is extremely useful and simplifying.

3.7.6 « Transport » tab:

The creation of a transport under the ABE profile works in the same way as under the AI or ABE or CI profile (see 3.4.4.5)



# **4** INTERPRETATION OF RESULTS

# 4.1 Interpretation of the results of the « Energy (MJ) » indicator

Concerning the Energy Indicator (MJ), the most virtuous solution will be the least energy consuming solution over the entire partial LCA carried out by SEVE.

The example shows in Figure 77, the difference in terms of energy consumption between the two solutions, 9,298,425 MJ over the entire base solution compared to 5,048,398 MJ for the alternative solution. The alternative solution is more environmentally friendly in terms of energy consumption.

6		Energie procédé (en MJ)							
		Extraction des matériaux	Transports en amont	Fabrication des melanges	Fret entrant sur le chantier	Mise en aeuvre	Fret sortant du chantier	Sous-total	Comparaison / Base
	Route/VRD	2029415	53737	2742546	505050	184790	60606	5576144	
Solution de base	Terrassement	1736500	o	0	858585	1066590	60606	3722281	
	Total	3765915	53737	2742546	1363635	1251380	121212	9298425	
	Route/VRD	1217649	32242	1645527	303030	147832	10101	3356382	-39.81 %
Solution variante	Terrassement	362800	o	0	202020	1066590	60606	1692016	-54.54 %
	Total	1580449	32242	1645527	505050	1214422	70707	5048398	-45.71%

Figure 77 – Summary of the comparative table on the Energy indicator (MJ)

# 4.2 Interpretation of the results of the "Greenhouse Gas (t CO<sub>2</sub> eq.)" indicator

Concerning the Greenhouse Gas indicator (t CO2 eq.), the most virtuous solution will be the lowest emitting solution over the entire partial LCA carried out by SEVE.

The example shows in Figure 78, the difference in terms of GHG emissions between the 2 solutions, 674.8 t CO2e over the entire base solution compared to 374.9 t CO2e for the variable solution. The alternative solution is more environmentally friendly in terms of energy consumption.



		Emissions de gaz à effet de serre (t éq CO2)							
CO2		Extraction des matériaux	Transports en amont	Fabrication des melanges	Fret entrant sur le chantier	Mise en deuvre	Fret sortant du chanțier	Sous- total	Comparaison / Base
	Route/VRD	123,9	4.3	228,5	40,6	13,8	4.9	416,1	
Solution de base	Terrassement	101	o	o	69,1	83,8	4,9	258,8	
	Total	224,9	4.3	228,5	109,8	97,6	9,8	674,8	
Solution variante	Route/VRD	74,3	2,6	137,1	24,4	11,1	0,8	250,3	-39.84 %
	Terrassement	19,7	o	o	16,3	83,8	4,9	124,6	-51.85%
	Total	94	2,6	137,1	40,6	94,9	5,7	374,9	-44.45%

Figure 78 – Summary of the comparative table on the Greenhouse Gas indicator (t CO2 eq.)

# 4.3 Interpretation of the results of the sub-indicators "Preservation of the resource (t)"

There are 4 sub-indicators in the indicator Preservation of the resource :

- Consumption of natural aggregates (t)
- Consumption of recycled materials (t)
- Use of asphalt aggregates (t)
- Consumption of rubble from and reused on the project (t)

The most virtuous solution will be the least greedy solution in natural aggregates while substituting them with alternative materials (recycled materials such as MIDND, recycled aggregates, asphalt aggregates, excavated material from the site...) on all the partial LCA carried out by SEVE.

The example shows in Figure 79, the difference in terms of resource preservation between the 2 solutions:

- 11,450 t versus 5,870 t of natural aggregates consumed
- 30,000 t versus 5,000 t of recycled materials
- 3,150 t versus 1,890 t of asphalt aggregates
- 70,000 t versus 100,000 t of excavated material produced and reused

We see that the alternative solution is less consuming natural aggregates than the alternative solution, which reduces this consumption of natural aggregates by half by using alternative materials significantly.



		Préservation de la ressource (t)						
4	*	Granulats Naturels	Metérieux recyclés	Utilisation d'Agrègets d'enrobés	Débleis réutilisés au sein du projet			
	Route/VRD	6450	o	3150	0			
Solution de base	Terrassement	5000	30000	o	70000			
	Total	11450	30000	3150	70000			
Solution variante	Route/VRD	3870	٥	1890	0			
	Terrassement	2000	5000	o	100000			
	Total	5870	5000	1890	100000			
Comparaison / Base	Solution variante	-48.73%	-83.33%	-40.00%	42.86%			

#### Figure 79 - Summary of the comparative table on the indicator Preservation of the resource (t)

# 4.4 Interpretation of the results of the sub-indicators "Tonne.kilometre (t.km)".

For the Tonne.kilometre (t.km) indicator, the most virtuous solution will be the one that will allow transport trucks to travel as little distance as possible and as little load as possible on transport upstream, entering and leaving the site.

The example shows in Figure 78, the difference in terms of GHG emissions between the 2 solutions, 674.8 t CO2e over the entire base solution compared to 374.9 t CO2e for the variable solution. The alternative solution is more environmentally friendly in terms of energy consumption.

		Tonne.Kilomètre (t.km)						
		Transports en amont	Fret entrant sur le chantier	Fret sortant du chantier	Total			
	Route/VRD	53200	500000	60000	613200			
Solution de base	Terrassement	٥	850000	60000	910000			
	Total	53200	1350000	120000	1523200			
Solution variante	Route/VRD	31920	300000	10000	341920			
	Terrassement	o	200000	60000	260000			
	Total	31920	500000	70000	601920			
Comparaison / Base	Solution variante	-40.00 %	-62.96%	-41.67%	-60.48 %			

Figure 80 - Summary of the comparative table on the Tonne.kilometre(t) indicator



# 5 GLOSSARY

#### Routing

A routing is a kind of trip, it is possible to create routings with several modes of transport (e.g. river + road) and several distances.

#### Adherent

The Member is a perimeter defining the company or organization subscribing to the SEVE software. The member perimeter is administered by the ACD.

#### **Director of Design Offices (or ABE)**

He receives user rights through his ACEU, he is the head of the study offices of his subsidiary. As such, it has access to all projects created on its user entity. He can create projects himself.

#### **Deputy Central Director (or ACD)**

He is the SEVE manager within the Member perimeter (his company or organisation). It provides access rights to its Central Administrators of User Entities (ACEUs) after entering the names of these User Entities (EU) into the database. He is also the sole and direct contact with the system's SEVE manager (ACU).

#### Central Administrator of the User Entity (ACEU)

He is the SEVE manager of the User Entity (EU), he receives access rights from his ACD and can himself manage the rights of his AI, ABE, CI or BE users. It creates in the database the agencies included in the EU.

#### **Industry Director (or AI)**

The industry administrator receives user rights through his ACEU, he is in charge of the elaboration of the formula catalogues and the technical management of the mobile descending plants that he enters in the database. It then makes all this data available to its design offices.

#### **Central Routes de France Administrator (ACU)**

He is responsible for the SEVE application, he creates the Member Perimeters and issues the rights to the DCOs who administer them. It also creates the common resource database for all users and the fixed asphalt plants of each member.

#### **Central Administration Routes de France**

The Routes de France Central Administration is the perimeter that manages SEVE, administered by the ACU.



The Agency perimeter is a perimeter in which BEs can create SEVE projects. Agencies are created by ACEUs, although EBAs are responsible for them (projects and resources created by BEs are managed by EBAs).

#### Asphalt aggregates

Recovered asphalt granular material obtained from milling, demolition of asphalt mixes or surplus asphalt plants. The recovered material must undergo several recovery steps such as screening and crushing to become an aggregate of asphalt mix. It must be "used" in the software as an incoming product, i.e. it must be incorporated into a bituminous asphalt mix for recycling (not to be confused with reclaimed material from a construction site).

#### Aliaser

This function allows you to copy a resource (formula, machines, products, etc.) to change its name without changing the unit environmental costs (to be distinguished from the "Duplicate" function)

# Life cycle analysis

It is a method of quantifying environmental impacts. This analysis includes a life cycle inventory providing environmental data; the latter allows the environmental impacts of the product and its use to be assessed during its lifetime.

# **Design Office (or BE)**

He receives user rights through his ACEU, he works on project development only within his agency. The projects it creates are not visible to other EU agencies but are visible to EBAs.

#### Head of Industry (or CI)

His ACEU gives him user rights, he is the manager of a production plant and can fill in the formula catalogue and make it available to his design office agencies as well as his AI. However, it cannot create a mobile power plant.

#### **Duplicate a SEVE resource**

Allows you to copy a resource to change its name and environmental costs (be careful if there is a change, the new environmental costs must be justified by a third party).

#### **User Entity (or EU)**

The user entity is in a way the regional directorates of the Member (company), it must be created by the company's SEVE manager (ACD). The person in charge of this 85 entity is the Central Administrator of the User Entity (ACEU). For members of the local authority type, the USA can be assimilated to local delegations.

#### Milling from a construction site

Granular materials from milling a construction site. Must be "considered" in SEVE as a product leaving the site (not to be confused with asphalt aggregates).



#### Industry

The Industry perimeter is an essential perimeter in which AIs and CIs can create asphalt, concrete, MTLH or SEVE cold mix formulas and then make them available to the EU of their choice. Fixed industries are created by ACU, mobile industries can be created by AI.

#### Login

User Login identified by a unique user name (login), an email address, and a password. A login created by ACEU can have several profiles (ABE, BE, AI and CI).

#### **Sharing industries**

When a fixed industry (asphalt mixing plant, MTLH...) is owned by several EU countries, it is said that this industry is in G.I.E (Groupement d'Intérêt Economique). Thus the different EU via their AI and CI must have the possibility to create different formulas

within this industry. The IA in charge of CE marking within the industry has the responsibility to share the industry with the other EU countries. "All resources with blue tablets are created by IAs or EBAs within the User Entity (EU) and are therefore data of the User Entity.

#### "Blue pastille"

All resources with blue pellets are created by AIs or ABEs within the User Entity (EU) and are therefore data of the User Entity.

#### "Orange tablet"

All resources with orange tablets are company-specific (e. g. specific products) and must be accompanied by a document justifying environmental costs.

#### "Green tablet"

All resources with green tablets are included directly in the SEVE common resource database. They cannot be modified and are resource data common to all users.

#### Scope of consolidation

Entity at the hierarchical level such as the Central Administration, the Member, the EU, the Agency or Industry.

#### "Information point"

Informs the user about a key point in the operation of the tool. It is symbolized by a blue "i".

#### **Publish formulas**

In order for a formula to be used on projects by EBAs and/or BEs, the IAs and/or ICs who create the forms must publish (make them available) within their EU.

When a formula is published in a different EU than the one where it was created, it cannot be modified by the person receiving it, only used in a project.



# Profile

Right given to the user at different hierarchical levels to use the SEVE application in different ways. The different profiles in SEVE are: ACU, ACD, ACEU, ABE, BE, AI and CI.

# **SEVE Resources**

All databases of common resources and resources created within the EU.



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