

B U R E A U V E R I T A S

OPENING WEBINAR EIME SOFTWARE VERSION 6

Pole of expertise in Life Cycle Analysis and ecodesign of LCIE bureau Veritas

FEBRUARY 23, 2023

WEBINAR

Agenda

- I EIME, more than 25 years of evolution
- A 6th version to meet the challenges of the LCA of the future
- I The main new features
- I Useful information





Damien PRUNEL CODDE manager

Yann FABRE IT manager - EIME



Béranger HOPPENOT Senior LCA/Ecodesign consultant



Valérie GILLET CODDE Sales manager



EIME, MORE THAN 25 YEARS OF EVOLUTION



3 MAIN VERSIONS







1996-2011 version 1 to 4

2012-2015 version 5.0

2016-2022 version 5.5



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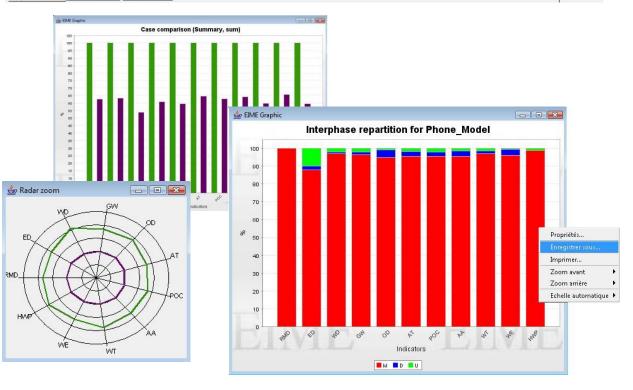


1996-2011 version 1 to 4



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MD Water Depletion dm3 1.7558E2 1.7066E2 1.118 3.80 GW Global Warming g ~CO2 1.0158E4 9.7956E3 1.6165E2 2.0086E DD Ozone Depletion g ~CFC-11 1.8557E-3 1.762E-3 7.8485E-5 1.5221E- AT Air Toxicity m3 2.7875E6 2.6647E6 7.8322E4 4.4609E PoC Photochemical Jozone Cr -C2H4 4.265 4.095 1.029E-1 8.7076E- AA Air Acidification g ~H+ 2.26 2.162 6.2152E-2 3.5996E-	
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MP Hazardous Waste Produ kg 2.2048E-1 2.1799E-1 3.7929E-5 2.4294E- 11 indicateurs d'impact quantifiés	
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2012-2015 version 5.0

EIME Case study Design	: Produit Z		Case study cre	ated!		👗 bhoppenot@codde.fr 🛛 🛒 Log o 📊 Go to analysis 🔗 Hon
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		Total transported mass Total transported mass corresponds to the sum of product and packaging weights As reminder, computed weight : 4.0000E+00 kg 4.0 kg
		Apply to each transport step Average loading rate 85.0 %
		Empty return rate 0.0 % Distance 12000.0 km •

WE for PE

WD for PEP

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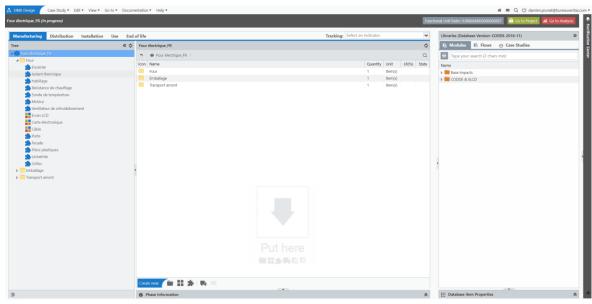
RMD for PEP

Impact indicator	Unit	Sum	Manufacturing	Distribution	Installation	Use	End of life	Impact Indicator Set
Air Acidification (AA for PEP)	kg H+ eq	3.3045E-03	2.3158E-03	1.9076E-04	1.9605E-06	7.8904E-04	6.9548E-06	EIME version 4.1 - PEP Ecopasse
Air toxicity (AT for PEP)	mª	6.9483E+06	4.4839E+06	3.4359E+05	5.6296E+03	2.0984E+06	1.6789E+04	
Energy Depletion (ED for PEP)	MJ	5.2683E+02	2.0035E+02	4.3364E+01	2.8053E-01	2.8199E+02	8.4739E-01	Change
Global Warming Potential (GWP for PEP)	kg CO2 eq.	2.3895E+01	1.3784E+01	1.0774E+00	1.7344E-02	8.9723E+00	4.3641E-02	
Hazardous Waste Production (HWP for PEP)	kg	7.8878E-02	0.0000E+00	7.7431E-02	8.6985E-07	8.9816E-04	5.4885E-04	Actions
Ozone Depletion Potential (ODP for PEP)	kg CFC-11 eq.	1.0223E-05	4.9535E-06	1.3120E-07	6.4200E-10	5.1316E-06	5.7270E-09	Export to Excel
Photochemical Ozone Creation Potential (POCP for PEP)	kg C2H4 eq.	5.2948E-03	4.2782E-03	4.6230E-04	5.8437E-06	5.3162E-04	1.6791E-05	
Raw Material Depletion (RMD for PEP)	Y-1	8.7261E-16	6.0638E-16	6.8837E-17	5.1464E-19	1.9596E-16	9.2164E-19	
Water Depletion (WD for PEP)	dm3	2.4838E+02	1.8580E+02	2.3480E+01	2.3449E-02	3.8971E+01	1.0914E-01	
D Water Eutrophication (WE for PEP)	kg PO4 eq.	1.1840E-03	3.1421E-04	7.6055E-04	1.9609E-05	8.9438E-05	1.7232E-07	
Water Toxicity (WT for PEP)	m ³	6.8739E+00	2.3460E+00	6.4754E-01	1.1381E-02	3.8579E+00	1.1078E-02	





2016-2022 version 5.5



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$\underline{}$ Indicators for PEP ecopassport ${\mbox{ or }}$ - P $ $	All indicators $^{\times}$											
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A 🚰 Impact indicators		AA for PEP	AT for PEP	ED for PEP	GWP for PE	HWP for PE	ODP for PE	POCP for P	RMD for PE	WD for PE	WE for PEP	WT for PEP
All indicators	Tree	kg H+ eq	m ³	MJ	kg CO₂ eq.	ka	ka CFC-11	kg C₂H₄ eq.	Y-1	dm ³	kg PO₄³- eo	m ³
 Air Acidification (AA for PEP) 	O 1. Manufacturing	6.69e-5	8.82e+4	4.06e+0	4.02e-1	3.72e-3	2.80e-8	8.40e-5	1.07e-16	2.66e+0	3.73e-5	1.24e-1
 Air Toxicity (AT for PEP) 	Q 2. Distribution	1.74e-6	2.59e+3	0.00e+0	9.37e-3	1.16e-8	1.78e-11	2.09e-6	1.92e-19	9.74e-4	1.74e-8	4.01e-3
 Energy Depletion (ED for PEP) 	O 3. Installation	5.94e-8	6.05e+1	2.49e-3	1.30e-2	1.09e-7	1.06e-11	6.82e-8	3.35e-21	2.64e-2	3.76e-9	8.76e-5
 Global Warming Potential (GWP for PEP) 	• O 4. Use	1.14e-4	1.42e+5	1.85e-1	9.75e-1	1.13e-4	1.25e-6	9.57e-5		2.29e+4	3.33e-5	1.49e+0
 Hazardous Waste Production (HWP for PEP 	5. End of life	1.53e-6	2.48e+3	1.35e-1	1.72e-2	9.36e-5	1.03e-9	2.95e-6	1.12e-19	3.30e-2	7.42e-6	1.30e-1
 Ozone Depletion Potential (ODP for PEP) 	2 Sum	1.84e-4	2.35e+5	4.39e+0	1.42e+0	3.92e-3	1.28e-6	1.85e-4	1.54e-16		7.80e-5	1.75e+0
 Photochemical Ozone Creation Potential (P 	2 5411	1.040-4	2.556+5	4.556+0	1.420+0	3.520-5	1.200-0	1.050-4	1.546-10	2.250+4	7.000-5	1.756+0
 Raw Material Depletion (RMD for PEP) 												
Water Depletion (WD for PEP)												
 Water Eutrophication (WE for PEP) 												
 Water Toxicity (WT for PEP) 												
▲ Call Resources use												
 All Resources use 												
Waste categories												
 All Waste categories 												
🔺 🚰 Other environmental information describing					All	indicators						
 All Other environmental information describ 				Ir	dicators for PEP e	copassport® - Pi	CR 2.1 - 2014					
🔺 🚰 Design indicators	100											
 Manufacturing 	100											
 Distribution 	90		_									
 Installation 	80											
Use	80											
End of life	70											
▲ 👔 Inventories												
Bill Of Materials - Product (BOM)	8	1										
Bill Of Materials - Process Losses (BOMW)	50											
 Life Cycle Inventory (LCI) 	>											
	40											
	30						_					
	20											
	10						_					
	0 AA for PEP AT for	PEP ED	for PEP	GWP for PEP	HWP for PEP	ODP for PEP	POCP for	PEP RMD I	or PEP V	VD for PEP	WE for PEP	WT for PEP
					_							
WT for	AA for		= 1.N	sanuracturing	2. Distributio	m 🔳 3. Install	ation 🗯 4. Use	s . End of				ID EIME C
WT for PEP	AA for PEP											
WE for	600 AT for							erials – Produc		n		
PEP	PEP							for PEP ecopassport®	- PCR 3 - 2015			
	400						2.25% Expandable po 1.95% Others	lystyre				
					6.97%	Plastic (unspecified						
	200											
WD for PEP	XXX	ED for PEP										
				0.30	16 Corrugated cardboa	rt.						
	A			9.31	againer cardbox							
	$\forall X \times I = I$											
											48.26% Cast i	on (product f
RMD for PEP	CW for	P PEP										
				9.403	6 Class (product flow .							
\setminus \vee												
\sim	T V.											
POCP for PEP	HWP for PEP											
	ODP											
	for PEP					18.78% Steel (produc	at flow					

A 6th VERSION TO MEET THE CHALLENGES OF THE LCA OF THE FUTURE



Our vision

Since 1996, the CODDE department of LCIE Bureau Veritas evolved to meet normative and industrials requirements.

Future of LCA will have to reinforce current solutions by meeting the challenges of tomorrow: cybersecurity, big data, traceability. In order to respond to the low carbon strategies 2030-2050.

In order to meet the low carbon strategies of 2030-2050.



Conformity
Acknowledgement



Performance

CARBON NEUTRALITY

Automatisation

Big data

Data privacy Cybersecurity



TWO VERSIONS



February 27, 2023



Release in 2024



and the second

PRESENTATION

This 6th version is based on a **total overhaul** of the source code in order to strengthen calculation performance and meet the challenges of European and international compliance with environmental claims.

The **fundamentals of EIME** remain preserved: create an intuitive and ergonomic interface, with continuous updates.



eime

Advantages

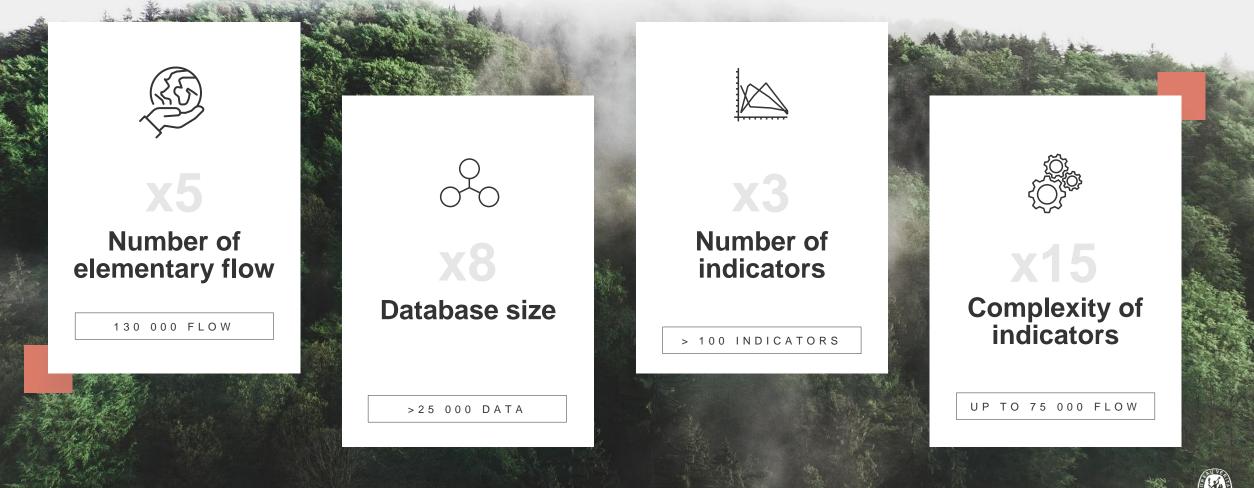
- Ready-to-use database and set of indicators
- Annual database update
- Initial training from 2 days



L Objectives

- Product carbon footprint (ISO 14067)
- LCA and ecodesign studies (ISO 14040/44)
- Product environmental declaration (ISO 14025)

KEY FIGURES



* Comparison between EIME v5 and v6 when released



PRESENTATION

New in the 6th version, **EIME API** is the program interface that allows the EIME software to be connected to other software, or third-party services, in order to exchange data and functionalities.

It provides a response to industrial challenges: automation, massive data processing, data traceability, etc.

The use of EIME API is done with the **IT support** of LCIE Bureau Veritas.



- Traceability and reliability of input data with
- existing quality toolsMassive data processing (volumetry, scoring, machine learning, etc.)

Release in 2024





CYBERSECURITY

MISSION

To guarantee all our users a secure workspace, whatever the size of their company.



EVOLUTIONS

In our time, companies are increasingly subject to malicious attacks and must increase their security requirements.

As a SaaS software, EIME is among your concerns.

LCIE Bureau Veritas is working with Yogosha, a company specializing in security testing, to strengthen EIME.



Added values

- SSO authentification
- Encryption of database
- « grey box » penetration testing
- Annual update of security tests





BIG DATA

MISSION

Process, create and analyze a growing volume of data to bring out the solutions of tomorrow.



EVOLUTIONS

With the growing interest in LCA and the strengthening of associated standards, the volume of data has increased significantly over the past 10 years. We believe this will still be the case in the future.

LCIE Bureau Veritas has therefore revised the EIME calculation system to meet this data volume requirement.

Added values

- Redesign of instances
- Creation of technical nodes (Node ILCD EF3.0)
- Increased maximum case study size x5 (~5,000 rows)
- Optimization of queries for the calculation of indicators
- Decorrelation of calculations and display



TRACABILITY

MISSION

Make environmental claims more reliable by using dynamic, traceable and verifiable production data.



EVOLUTIONS

It is no longer enough for companies to communicate the environmental impact of their products and services.

Our way of producing and consuming resources must be part of a transparency scheme while guaranteeing the achievement of carbon neutrality.

The LCIE Bureau Veritas is now preparing new functionalities.

Added values

- Association of dataset
- Configurable dataset
- Annual update of electricity mixes





DEMONSTRATION



Courriel Mot de passe

Se souvenir de moi?



THE MAIN NEW FEATURES



LIFE CYCLE PHASES

MAIN INNOVATION

In EIME v6, it is possible to create as many lifecycle phases as desired. The objective is to be able to respond to the multiplicity of requests.



Add phase



Function available for all users

CATEGORIZED BILL OF MATERIALS

MAIN INNOVATION

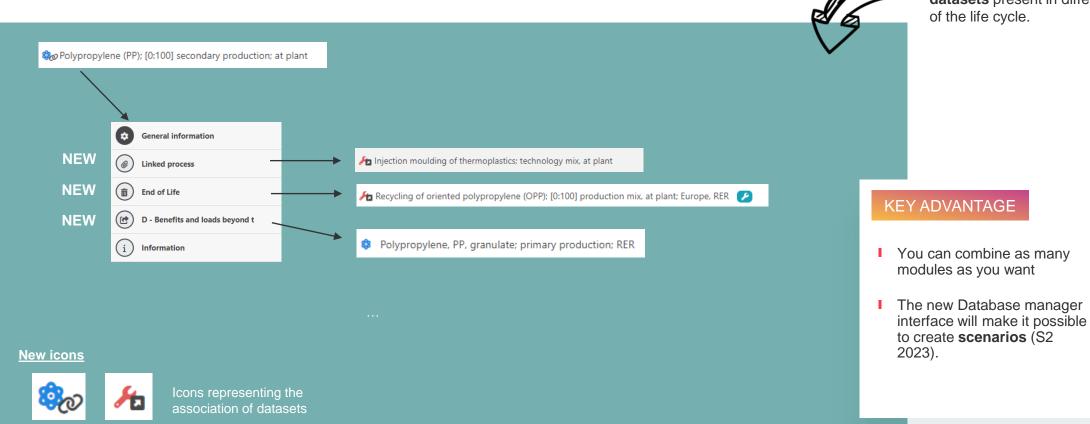
In EIME v6, it is possible to create categorized bill of materials

⊞	Product 📀	
⊞	Packaging 🕓	
	Category No	o Category 🗸 🗸
	Q Search O No Category	0
	 Produit Packaging PWB 	

ASSOCIATION OF DATASET

MAIN INNOVATION

In order to facilitate the modeling of upstream transport, shaping processes for waste treatment and module D, we have created in EIME v6 a new functionality: « Association of dataset ».

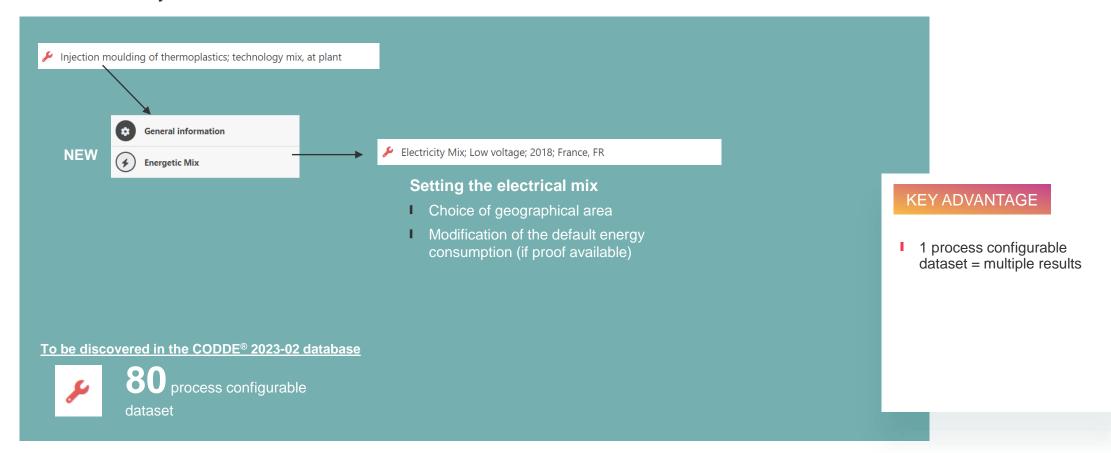


From a **modeling entry point**, it is possible to **manage several datasets** present in different stages of the life cycle.

DATASET CONFIGURABLE

MAIN INNOVATION

Parameterizable dataset is a dataset with at least 2 parameters. *Example: a component where you can enter a quantity (item), while modifying a surface density (kg/m²).* **In EIME v6, we are creating a new type of dataset: « configurable dataset ». These are datasets whose use is directly associated with another dataset.**



EVOLUTION OF EIME V6

UPDATE

The fundamentals of EIME remain preserved: create an intuitive and ergonomic interface, with continuous updates.

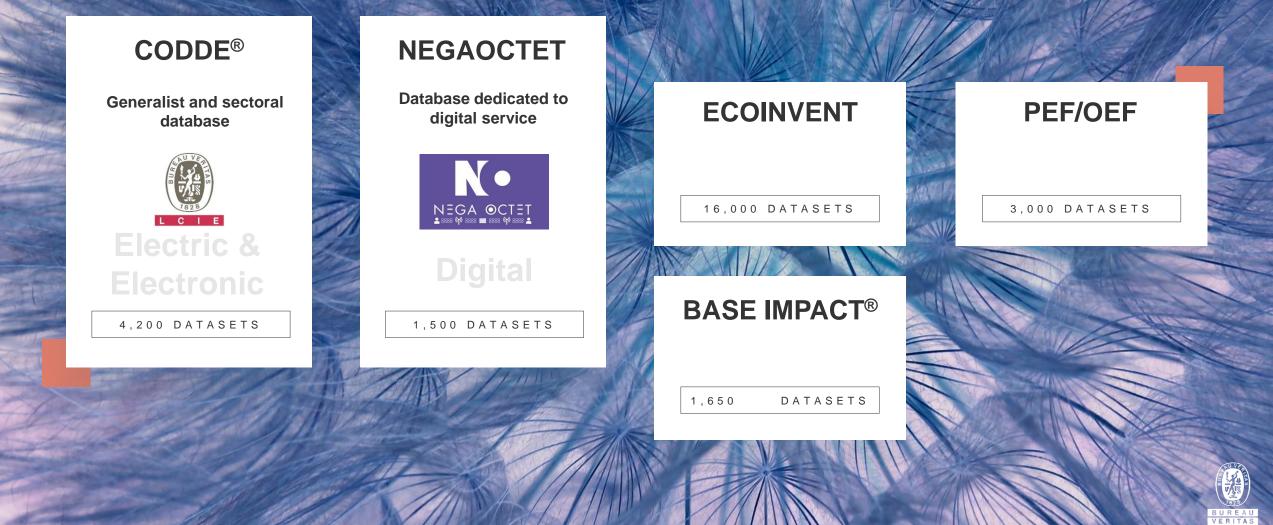


COMING SOON

2nd semester 2023 :

- Design interface: module comparison tool
- Analysis interface: normalization / weighting results
- Update of export formats according to future recommendations (INIES, PEP ecopassport®)
- Database manager interface For reasons of database stability, the creation of data is inaccessible under EIME v6. The Database manager interface will be available in summer 2023.

DATABASE



CODDE[®] 2023-02

CODDE® 2023-02: Exclusivity of EIME v6

- **720** datasets with new impacts (creation or update)
- I 1,300 datasets with information updates



Data quality

- I Evaluation of the quality of data from the CODDE[®] database: available in the EIME documentation section.
- I Overwall score of the CODDE[®] 2023-02:

I 2.9^{**}

I 0.3 point improvement compared to the CODDE® 2022-01 database

**Rating scale from 5.0 to 1.0 (1.0 being the best rating). Calculated for the CODDE® 2023-01 base..

New set of indicators

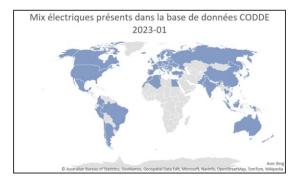
- I Nouvelle version du set d'indicateurs PEF/EN15804+A2 compatible avec la base de données CODDE[®] 2023-02 :
 - « Indicators for PEF EF 3.0 (Compliance: PEP ed.4, EN15804+A2) v2.0 »



CODDE® 2023-02

New electricity mix datasets

- I Added 11 low voltage electrical mix datasets
- I Added 68 high voltage electrical mix datasets



New end of life datasets

In order to facilitate the use of ECOSYSTEM end-of-life datasets in module D, in particular to model the benefits generated by end-of-life treatment, "benefits only" datasets have been created.

New material datasets

- I Biobased materials (biogenic GWP indicator)
- Plastics
- I Enamel
- Lead recycling
- I Refrigerant: R290, R32 et R23

Creation of [100:0] [0:100] tags

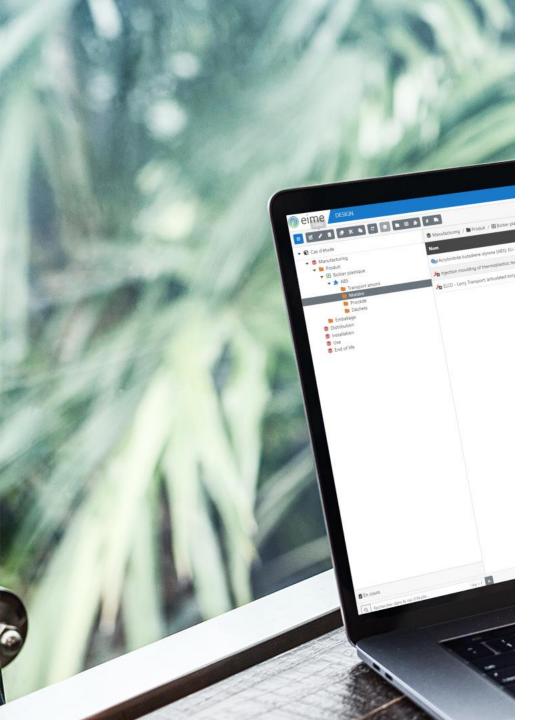
- I The tag [100:0] has been added to all dataset names only usable for the inventory method
- I The tag [0:100] has been added to all dataset names only usable for the substitution point method
- Datasets conforming to both methodologies do not contain any tags
 - 💌 📒 Metals and semimetals
 - ICODDE-0085] Aluminium alloy AlNiCo; primary production; Europe, RER
 - [CODDE-2319] Aluminium; [0:100] secondary production; at plant
 - ICODDE-1092] Aluminium; [100:0] 48% recycled from clean scrap; Europe, RER
 - § [CODDE-0002] Aluminium; [100:0] secondary production; Europe, RER



USEFUL INFORMATION







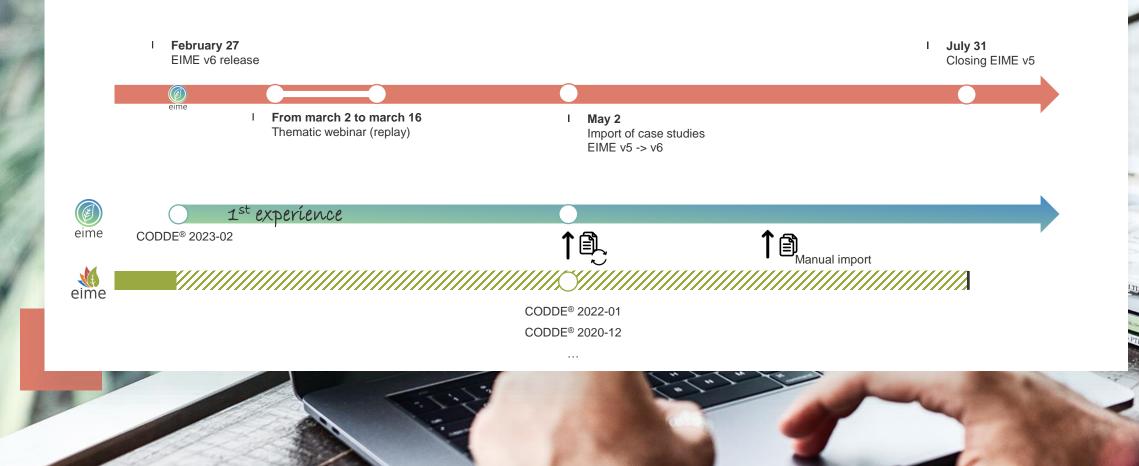
RELEASE DATE

EIME v6 licenses release on:

- I February 27, 2023, with a differentiated opening
 - I EIME users with a Team Manager in their organization
 - I EIME users without Team Manager
- I EIME v5 v6 transition period for everyone
- I Import of EIME v5 case studies to EIME v6 for everyone



AGENDA EIME USERS WITHOUT TEAM MANAGER



BUREA VERITA

DETAILLED INFORMATION EIME USERS WITHOUT TEAM MANAGER

Release date

I On February 27, 2023, you will receive an email activating your EIME v6 license.

Workspace

I Create your EIME v6 case studies with the « Project CODDE® -2023-02 » available at the opening of your license, having the latest version of the database.

Transition period

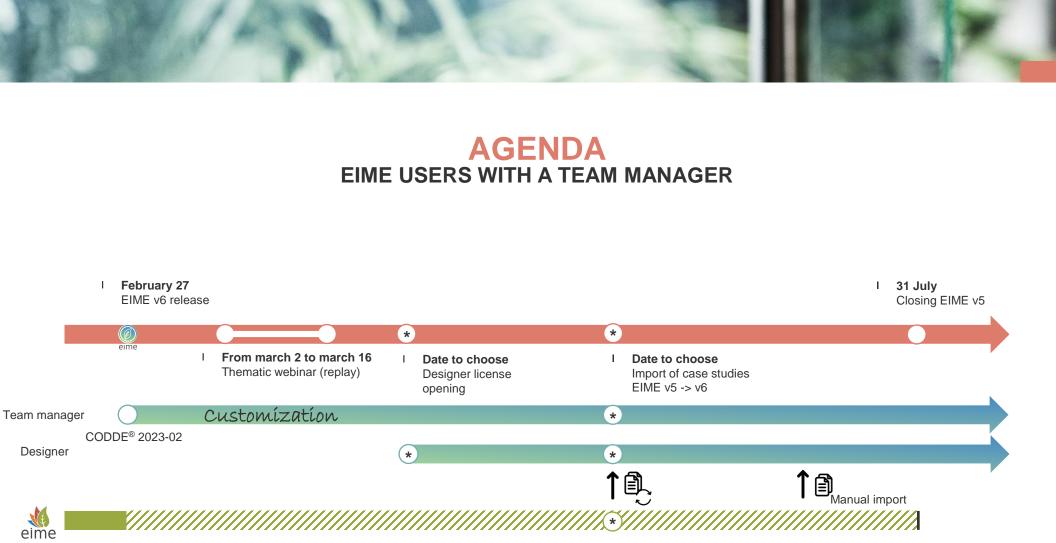
I Discover EIME v6 while continuing your EIME v5 projects: your EIME v5 license remains accessible until July 31, 2023.

Transfer of EIME v5 case studies

I On May 2, 2023, LCIE Bureau Veritas will create a copy of your EIME v5 projects and case studies to EIME v6. Case studies created between May 2 and July 31 under EIME v5 must be imported individually by the user.







CODDE[®] 2022-01 CODDE[®] 2020-12

...

BUREA

DETAILLED INFORMATION EIME USERS WITH A TEAM MANAGER

Release date

I On February 27, 2023, you will receive an email activating your EIME v6 license.

Workspace

- I Create your EIME v6 case studies with the « Project CODDE® -2023-02 » available at the opening of your license, having the latest version of the database.
- I Use Team Manager features to customize your license (project, set of indicators, template). This step is important to improve the user experience.

Activation of other EIME licenses

I The Team Manager contacts LCIE (<u>codde@bureauveritas.com</u>) to define a date on which users will receive an EIME Designer EIME v6 license activation email. Date defined between the Team Manager and LCIE.

Transition period

I Discover EIME v6 while continuing your EIME v5 projects: your EIME v5 license remains accessible until July 31, 2023.

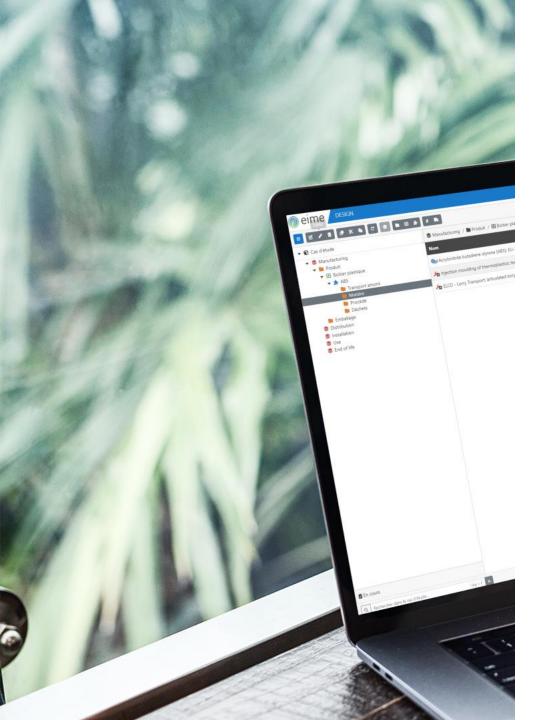
Transfer of EIME v5 case studies

- I The Team Manager contacts the LCIE (<u>codde@bureauveritas.com</u>) to define a date on which the EIME v5 projects and case studies will be copied to EIME v6 (by July 31, 2023 at the latest). Date defined between the Team Manager and LCIE.
- I The case studies created between this date and July 31, 2023 under EIME v5 must be imported individually by the user.

Database manager interface

I For database stability reasons, data creation is inaccessible under EIME v6. The Database manager interface will be available in summer 2023.





DOCUMENTATION

To be consulted from EIME v6:

I Handbook

I 1st step

Recommended for all !

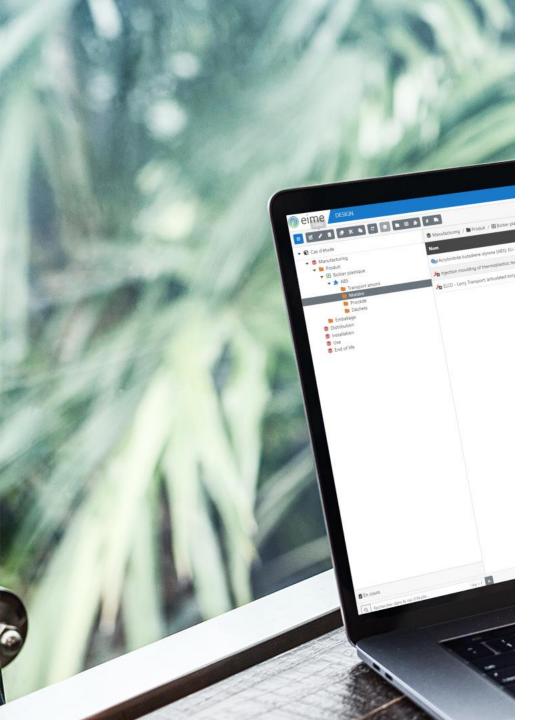
- I Detailled handbook
- I Team manager
- I 10 good practice sheets
- I 1 CODDE[®] 2023-02 **database guide**, including appendices (correspondence table, data quality assessment)



DOCUMENTATION







WEBINAR

- March 2 I « Analyse interface » I « Design interface » March 7 I « Database » I « Team manager »
 - March 12 March 16

Registration reserved for users with an EIME license. The replays will be available to everyone on the codde.fr website.

Upcoming English session.





HABITS

- I 21 days is the minimum time to get used to the change
- I For some it may take longer

We recommend learning about EIME v6 features as you go, starting with the basics.





TRAINING

From March 2023, our training will be done on the EIME v6 software

EIME Designer training
 PEP ecopassport[®] PCR ed4 training

Information & registration: codde.fr





Our Department 🗸 🛛 Our Services 🖌 Our Brands 🖌 Bureau Veritas 🖌 Contact Us 🖌 🚺



New: Discover the 6th version of EIME

EIME software is a unique LCA and Eco-design tool to quantify environmental impacts!

You will be able to perform the Life Cycle Assessment of your products and services. But also identify the ecodesign ways available to you. And finally, create communication supports (PEP ecopassport, PDES, EPD System) to enhance your approach.

Since 1996, EIME has been evolving to better meet normative and industrial requirements. In 2023, **EIME changes**. As part of our vision of the **LCA of the Future**, LCIE Bureau Veritas has developed the 6th version of EIME.



NégaOctet: Evaluate the impact of your digital services

CODDE supports you in the eco-design of your digital services by carrying out the Life Cycle Assessment of your IT services, connected objects and applications.

The methodology we use is based on international standards ISO 14040/44 and the **NegaOctet standard**, method co-developed by LCIE Bureau Veritas and its partners (APL DATA CENTER, DDemain and GreenIT.fr)).



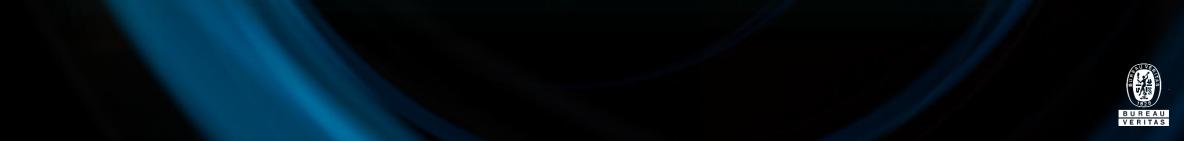


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NEWS

codde.fr/en

SOME QUESTIONS?





B U R E A U V E R I T A S

WWW.CODDE.FR

Contact us

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