

On-line εργαλεία του SINERGIA για την υποστήριξη μικρομεσαίων βιομηχανιών τροφίμων να βελτιώσουν την ενεργειακή τους απόδοση

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Κέντρο Ανανεώσιμων Πηγών και Εξοικονόμησης Ενέργειας



Online εργαλεία του sinergia

FET (Food Energy Technology)

- ▶ Βάση δεδομένων τεχνολογιών βελτίωσης ενεργειακής αποδοτικότητας

ESAT (Energy Self Assessment Tool)

- ▶ On-line αξιολόγηση της ενεργειακής αποδοτικότητας βιομηχανίας τροφίμων

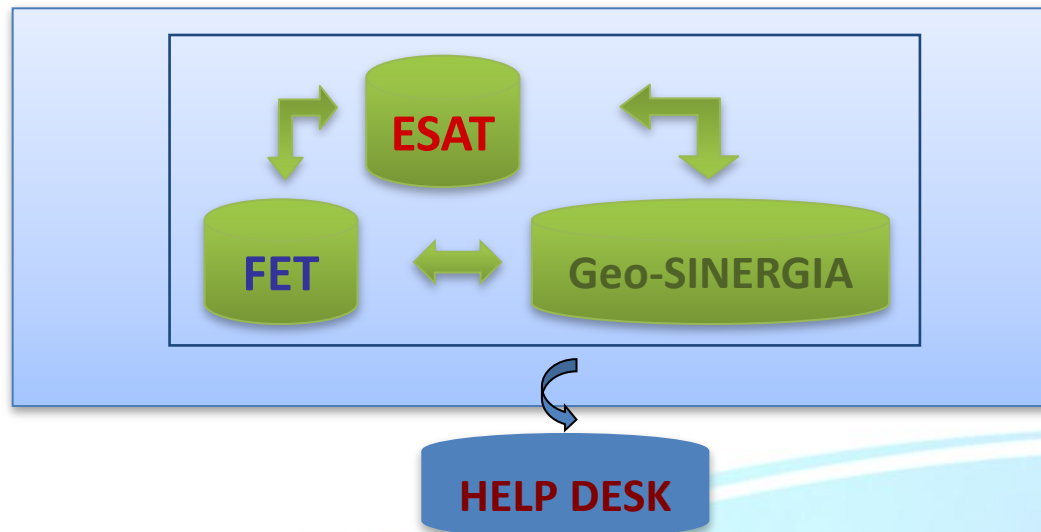
Geo-SINERGIA

- ▶ Χάρτης εφαρμογών και προμηθευτών τεχνολογιών βελτίωσης ενεργειακής αποδοτικότητας βιομηχανιών τροφίμων στις Περιφέρειες της Μεσογείου



Online εργαλεία του sinergia

Η βάση δεδομένων τεχνολογιών **FET**, το εργαλείο αξιολόγησης της ενεργειακής αποδοτικότητας **ESAT**, και ο χάρτης προμηθευτών τεχνολογιών και εφαρμογών **Geo-SINERGIA**, μαζί με τα τοπικά **Γραφεία Υποστήριξης** αποτελούν στρατηγική συμβολή του έργου SINERGIA στη βελτίωση της ανταγωνιστικότητας των μικρομεσαίων βιομηχανικών επιχειρήσεων τροφίμων.



Online εργαλεία του sinergia

Οι εφαρμογές FET, ESAT, Geo-SINERGIA είναι

- ▶ Προσβάσιμες από την ιστοσελίδα του έργου: <http://www.sinergia-med.eu/>
- ▶ Εύχρηστες
- ▶ Δωρεάν
- ▶ Αναβαθμιζόμενες

Απευθύνονται σε

- ▶ Επιχειρηματίες
- ▶ Διοικητικά στελέχη μικρομεσαίων επιχειρήσεων
- ▶ Σύμβουλους
- ▶ Τεχνικούς
- ▶ Υπεύθυνους χάραξης πολιτικής



Βάση ενεργειακών τεχνολογιών FET

Κύρια χαρακτηριστικά

- ▶ Διαδραστική εφαρμογή Ίντερνετ
- ▶ Διαφορετικά επίπεδα χρήσης
- ▶ Συνεργατική πλατφόρμα
- ▶ Δυνατότητα αναβάθμισης από εμπειρογνώμονες
- ▶ Σύνδεση με την εφαρμογή Geo-SINERGIA

Δυνατότητες αναζήτησης τεχνολογιών με βάση κριτήρια δομημένα κατά

- ▶ Κλάδο δραστηριότητας
- ▶ Διεργασία
- ▶ Παρεχόμενη υπηρεσία
- ▶ Λέξεις κλειδιά
- ▶ Με συνδυασμό των άνω



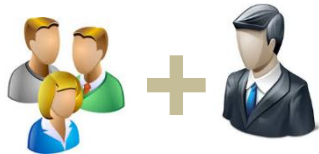
Διαδικασία εισαγωγής τεχνολογιών



- Ο εξειδικευμένος χρήστης εισάγει νέα τεχνολογία χρησιμοποιώντας την αντίστοιχη on-line φόρμα



- Η νέα τεχνολογία βρίσκεται σε στάδιο **ΑΝΑΜΟΝΗΣ**



- Μέσω του πίνακα εργαλείων της εφαρμογής, ο Διαχειριστής και οι Συντονιστές γνωρίζουν ότι υπάρχει ένα νέο δελτίο δεδομένων προς αξιολόγηση και έγκριση



- Μέσω του πίνακα εργαλείων της εφαρμογής, ο Διαχειριστής, οι Συντονιστές και ο εξειδικευμένος χρήστης σχολιάζουν το νέο δελτίο δεδομένων



- Εφόσον οι συντονιστές συμφωνούν ομόφωνα, τότε η νέα τεχνολογία γίνεται **ΑΠΟΔΕΚΤΗ** και προσβάσιμη στο ευρύ κοινό.



Welcome to *SINERGIA Food Energy Tech (FET) Web Application*

FET is a collection of best available technology in the fields of energy efficiency and renewable energy production for the agro-food SMEs, in the areas of the Mediterranean Region. The database aimed to share the existing energy solutions and promote their application in agro-food SMEs, is one of the output of the [SINERGIA project](#) (financed by EU Med Programme)..

The access to the database is free, but requests [Registration](#).

FET - Food Energy Tech

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[Home](#) » [About](#)

About FET

FET is a collection of best available technology in the fields of energy efficiency and renewable energy production for the agro-food enterprises, it is specifically dedicated to SMEs of the Mediterranean Region. Entering the database, it is possible to search for information on the best practices or technologies through a specific search menu, selecting some key parameters (e.g. sector, process or keywords) The access to the database is free, but requests registration. The database is accessible by providing a username and a password to the system which can be obtained by performing a regular [Registration](#). It is open to contributes from other partners and experts that would like to cooperate to develop and test it. If you are interested, please visit the page: [Cooperate with us](#). Currently FET is only available in the english version.

The database has been developed by ENEA with the contribution of Federalimentare and the Sinergia project partners If you want more information about us visit the [Sinergia website](#) or contact us at: info.sinergia@enea.it

FET - Food Energy Tech

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[Home](#) » [Registration](#)

Registration

Fields with * are required.

First Name *

Last Name *

Your sector/activity *

Affiliation *

Your Country *

username *

password *

Minimal password length 4 symbols.

Retype Password *

E-mail *

Verification Code



[Get a new code](#)

Please enter the letters as they are shown in the image above.

Letters are not case-sensitive.



[Home](#) » [Contact](#)

Cooperate with us

FET is a collaborative database that can be developed with your help. If you are an expert in the field of technologies that can be applied to agro-food sectors you can help us as a *Qualified user*.

If you want to become a *Qualified user*, please fill the following form and you will be contacted by us.

*Fields with * are required.*

Name *

Email *

Subject *

Body *

Verification Code



[Get a new code](#)

Please enter the letters as they are shown in the image above.

Letters are not case-sensitive.

[Home](#) » [Login](#)

Login

Please fill out the following form with your login credentials:

*Fields with * are required.*

username or email *

password *

[Register](#) | [Lost Password?](#)

Remember me next time

FET - Food Energy Tech

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[Home](#) **[Dashboard](#)** [Profile](#) [About](#) [Cooperate with us](#) [Logout \(dmendrin\)](#)

[Home](#) » **Dashboard**

SINERGIA Dashboard

Please uses the dashboard to perform the user allowed actions

Follows this link to search Best technologies in the SINERGIA Database

[Search Best Technologies](#)

Qualified user allowed actions

[Insert Best Technologies](#)

[You have 2 data sheets waiting approval](#)

FET - Food Energy Tech

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[Home](#) » [Best technologies](#) » [Manage](#)

Search Best Technologies

You can browse FET by keywords, processes, sectors or energy services (or a combination of them)

[Advanced Search](#)

Keyword
Process *
Sector *
Service *

Displaying 1-3 of 3 results.

Keyword	Short description	Process	Sector	Service	
			Meat sector		
Heat recovery from cooling systems	Heat recovery from cooling systems and compressors. The system needs some heat exchangers				
Frequency converters	Flow control of pumps and compressors				
High efficiency motors	Motors with lower energy losses				

Search in SINERGIA

DB

[Search Best Technology](#)

Qualified Dashboard

[Insert Best Technologies](#)

[2 data sheets waiting approval](#)

Best Technologies

Operations

LIST

CREATE



Best Technology: *GSHP*

Keyword	GSHP
Short description	Ground Source Heat Pumps or Geothermal Heat Pumps
Description	Geothermal heat pumps or Ground Source Heat Pumps (GSHPs) provide heating, cooling and hot water transferring thermal energy from the ground. GSHPs provide cold water at a minimum temperature of about -8°C and hot water with maximum temperatures of up to 80-85°C with very high efficiency: a GSHP delivers 4-5 times more energy than the electricity it consumes, being the highest among heat pumps. In Agrofood sector, GSHPs can be used for space heating & cooling, process heating, process cooling, refrigeration and sanitary hot water production. Related applications in the wine, beer, bakery and dairy sectors are identified and analyzed. Key commercial benefits include reduction of operation costs, energy savings and reduction of carbon emissions.
Action	Energy Efficiency
Payback period or investment cost	4-5 years for new systems
Investment level	Medium
Keywords	
Power source	Electricity
Info reference	
Link1	http://www.groundmed.eu/hp_best_practice_database/
Link2	
Link video	
Atlas link	
Last Update	2015-03-06 10:58:05
Author	Dimitrios MENDRINOS - Centre for Renewable Energy Sources and Saving (CRES), dmendrin@cres.gr

GSHP is used in these sectors:

Sector Name	Processing and preserving of meat and production of meat products
Sector Name	Processing and preserving of fish, crustaceans and molluscs
Sector Name	Processing and preserving of fruit and vegetables
Sector Name	Manufacture of dairy products
Sector Name	Manufacture of bakery and farinaceous products
Sector Name	Manufacture of wine from grape

GSHP is used in these processes:

Search in **SINERGIA**
DB

[Search Best Technology.](#)

Qualified Dashboard

[Insert Best Technologies](#)

[2 data sheets waiting approval](#)

Best Technologies
Operations

LIST
CREATE
UPDATE

Process Name	Heating
Process Name	Cooling
Process Name	Cleaning

Services assigned to GSHP:

Service Name	Heat Generation
Service Name	Air Conditioning/Treatment
Service Name	Cold Water Production

One comment

2015-03-10 13:43:51

[Download PDF](#)

[Print](#)

Dimitrios MENDRINOS Centre for Renewable Energy Sources and Saving (CRES) says:

I fully agree with the technology input

Moderator contact details dmendrin@cres.gr

Leave a Comment

Fields with * are required.

Comment *

FET - Food Energy Tech

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ESAT – εφαρμογή ενεργειακής αξιολόγησης

Στόχοι

- ▶ Αύξηση της ευαισθητοποίησης σχετικά με την κατανάλωση ενέργειας στις ΜΜΕ
- ▶ Σύγκριση της ενεργειακής απόδοσης των ΜΜΕ
- ▶ Αξιολόγηση της ενεργειακής κατανάλωσης ανά τμήμα της αλυσίδας παραγωγής
- ▶ Προσομοίωση των κυριότερων σεναρίων βελτίωσης ενεργειακής απόδοσης

Κύρια χαρακτηριστικά

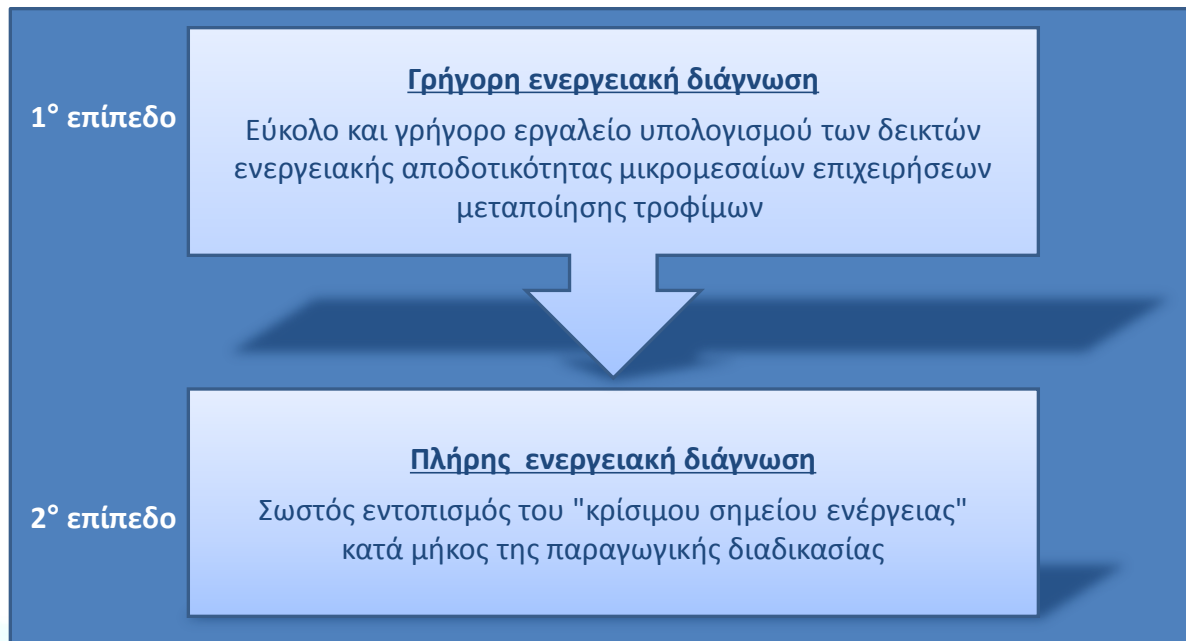
- ▶ Δωρεάν πρόσβαση και εύκολη χρήση
- ▶ Εισαγωγή δεδομένων κόστους και ενεργειακής κατανάλωσης
- ▶ Αυτο-έλεγχος ενεργειακής απόδοσης
- ▶ Προσομοίωση λύσεων ενεργειακής απόδοσης
- ▶ Αποθήκευση δεδομένων και αποτελεσμάτων προσομοίωσης
- ▶ Παρουσίαση δεδομένων και αποτελεσμάτων προσομοίωσης



ESAT – ενεργειακή αξιολόγηση

Ενεργοποιημένες λειτουργίες για εγγεγραμμένους χρήστες

- ▶ Είσοδος στη διαδικτυακή εφαρμογή
- ▶ Εισαγωγή του κόστους και κατανάλωσης ενέργειας
- ▶ Διάγνωση της ενεργειακής απόδοσης



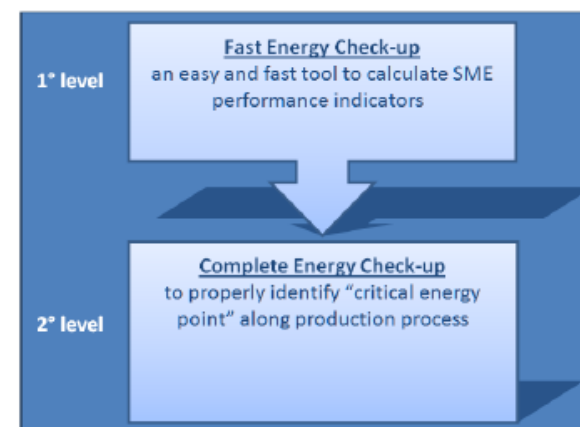
Welcome to ESAT (Energy Self Assessment Tool) Web Application

ESAT is a tool to help small and medium enterprises (SMEs) to better know their own energy consumption features and to identify potential energy saving areas.

The tool will drive you, step by step, to collect and analyse some relevant data about your plant and to have a clear view of your energy consumption patterns.

ESAT permit two different and connected levels of analysis:

- an entry simple one **Fast Energy Check-up**, easy and fast, to calculate your performance indicators and compare them with reference values.
- a «detailed one» **Complete Energy Check-up** to properly identify when and where you consume energy along your production process.



To start you have to register and check the rules and privacy statement.

If you want to learn more please see [About](#) section.

This site is under development: currently you are accessing the Fast Energy Check-up demo version, the beta release will be ready in April 2015.

ABOUT

ESAT aims to increase agro-food SMEs awareness about their energy cost and to identify opportunities for increasing energy efficiency.

The on-line software processes a set of information about SME energy cost/consumption and production data, providing a gross judgment regarding the energy efficiency of the site by comparing results with appropriate benchmarks. This tool will allow to evaluate higher margins of improvements of energy performances and will support enterprises in their choices.

Registered user can insert its own plant data, save them in a specific workspace and come back to update or change them if necessary. It is possible to create a final report about each plant concerning different sites or different years to build up its energy history

ESAT goals are:

- Increase awareness about SMEs energy consumption
- Compare SMEs energy performance
- Assess energy consumptions for each segment of the production chain
- Simulate major energy efficiency scenarios

Tool features are:

- Free access and easy to use
- Insert cost and consumption energy data
- Self check energy performance
- Save its own data and simulation
- Report energy data
- Simulate energy efficiency solutions

The tool's target users are: entrepreneurs, consultants, analysts.

A tool guide is available for downloading here: "[ESAT Quick Guide](#)"

This web application is connected with other Sinergia tools and services like F.E.T., Geo-sinergia, Help desks map.

ESAT has been developed by ENEA, with the contribution of CRES, under the EU Project SINERGIA.



CONTACTS

For any clarification or information please write email to info@sinergia.enea.it

ESAT - Energy Self Assessment Tool

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REGISTER

Currently is not possible to register!

Company information

Name*

Address*

City*

Nation*

Zip code*

Sector*

* Company name

Contact information

Name

Surname

Email*

Phone*

Password*

Confirm Password*

I read and accept [rules](#) and [privacy](#) statements

Sign in

You will receive an email with your automatically generated password and you will be directed to the Login page

LOGIN

User code

(To look at the demo version use: "demo")

Password

(To look at the demo version use: "demo")

Sign in

If you are not registered request an account [here](#)

ESAT - Energy Self Assessment Tool

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FAST ENERGY CHECK-UP

Create and manage your projects

Each project is related to a plant and a specific year

[New Project](#)

Manage your projects

Name	Year	Date	Last Access		
Aurora	2014	2015-04-18 20:02:28	2015-04-27 14:40:23		
Monet	1980	2015-04-28 14:29:19	2015-04-28 14:29:19		
Monet	2014	2015-04-28 14:27:17	2015-04-29 10:29:38		
pippo	2013	2015-03-23 16:58:10	2015-04-15 13:20:32		
test	2014	2015-04-27 14:43:34	2015-04-29 10:30:28		
x	2013	2015-04-14 16:12:39	2015-04-14 16:12:39		

ESAT - Energy Self Assessment Tool

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FAST ENERGY CHECK-UP - Step 1/3

Insert a minimum set of input data about your activity

Plant name Reporting year

Production Plant details

Choose sector

Product	Quantity	Unity of measure
<input checked="" type="checkbox"/> Red	<input type="text" value="100000"/>	<input type="text" value="kg"/>
<input checked="" type="checkbox"/> White	<input type="text" value="100000"/>	<input type="text" value="kg"/>
<input checked="" type="checkbox"/> Rosè	<input type="text" value="100000"/>	<input type="text" value="kg"/>
<input type="checkbox"/> Sparkling	<input type="text"/>	<input type="text" value="kg"/>
<input type="checkbox"/> Other	<input type="text"/>	<input type="text" value="kg"/>

Quantity of processed feedstock Unity of measure

Working units

Turnover k€

[Back](#)

[Save & Continue](#)



FAST ENERGY CHECK-UP - Step 2/3

Please enter the plant energy data

Energy data

Is your production seasonal? Yes No

If YES, please specify the number of weeks

Total annual energy costs k€

Choose power sources and related costs

Electricity k€ price €/kWh

▼ k€ price €/sm³

Gasoil k€ price €/kg

Biomass k€ price €/kg

[Back](#)

[Save & Continue](#)

FAST ENERGY CHECK-UP - Step 3/3

Please answer to the following question about past energy efficiency actions

Energy Efficiency information

Do you use renewable energy sources? Yes No

Do you have cogeneration system? Yes No

During the last 5 years, do you have improved your processes/technologies? Yes No

During the last 5 years, do you have improved your plant energy efficiency? Yes No

[Back](#)

[Save & Process](#)

FAST ENERGY CHECK-UP - Report

Please check your plant data

Plant name Reporting year

Plant details

Choose sector

Product	Quantity	Unit of measure
<input type="text" value="Rose"/>	<input type="text" value="100000"/>	<input type="text" value="kg"/>
<input type="text" value="White"/>	<input type="text" value="100000"/>	<input type="text" value="kg"/>
<input type="text" value="Red"/>	<input type="text" value="100000"/>	<input type="text" value="kg"/>

Quantity of processed feeds lock Unit of measure Working units Turnover M€

Energy data

Is your production seasonal? YesIf YES, please specify the number of weeks Total annual energy costs M€

Choose power sources and related costs

Electricity M€ price €/MWhMethane M€ price €/sm³Gas oil M€ price €/MWhBiomass M€ price €/MWh

Energy Efficiency information

Do you use renewable energy sources? YesDo you have cogeneration system? NoDuring the last 5 years, do you have improved your processes/technologies? YesDuring the last 5 years, do you have improved your plant energy efficiency? Yes

FAST ENERGY CHECK-UP - Result

Here your performance indicators

Performance Indicators

Energy costs/Turnover

0.02



Compliment! the energy costs and consumption of your plant outperform the benchmark.

Electrical cost/Turnover

0

Gas cost/Turnover

0

Energy consumption/Feedstock

0



Compliment! the energy costs and consumption of your plant outperform the benchmark.

Energy costs/Working units

3.33



Compliment! the energy costs and consumption of your plant outperform the benchmark.

[Back](#)

[Complete Energy Check-up](#)



Geo-SINERGIA

Στόχοι

- ▶ Εργαλείο εύρεσης προμηθευτών τεχνολογιών βελτίωσης ενεργειακής απόδοσης
- ▶ Ανάδειξη των βιομηχανικών επιχειρήσεων τροφίμων που εφαρμόζουν καινοτόμους ενεργειακές λύσεις

Κύρια χαρακτηριστικά

- ▶ Άτλας προμηθευτών και εφαρμογών
- ▶ Δωρεάν πρόσβαση
- ▶ Διαδικτυακή εφαρμογή στις ιστοσελίδες www.geo-sinergia.eu
- ▶ Εύρεση προμηθευτών ανά τεχνολογία και ανά διεργασία
- ▶ Εύρεση εταιρειών ανά κλάδο και ανά χρησιμοποιούμενη τεχνολογία
- ▶ Δυνατότητα προβολής κατόπιν αξιολόγησης





Choose country: **Italy**

I'm looking for SOLUTION PROVIDERS

By type of technical solution

By type of manufacturing process

OR

I'm looking for FOOD-PROCESSING

By industry

By innovative technology used



WELCOME ON "Géo-SINERGIA"

Géo-SINERGIA is the mapping tool of SINERGIA project :
It has a double goal.

01

First it is possible to find a provider of energy efficiency solutions. Agribond companies just have to select a local solution, test it on a farm for its use or a process stage that they want to improve, like cooking, freezing. And they obtain a list of solutions provider, and a map also localizing the solutions providers.

02

The second goal of Géo-SINERGIA is to promote agribond companies that are using the most energy solutions with the same mapping system.

Géo-SINERGIA is the meeting point of agrofood companies that are looking for energy efficiency partners.

Les partenaires du projet SINERGIA



GéO-SINERGIA

Find your energy efficiency partner

Choose country **YOUR COUNTRY**

I'm looking for **SOLUTION PROVIDERS**

By type of technical solution

By type of manufacturing process

I'm looking for **FOOD-PROCESSING COMPANIES**

By industry

By innovative technology used

UK FR

Contacts

Log in

Sign up



RÉSULTATS DE VOTRE RECHERCHE

France

VIGNERONS DE BALMA VENITIA

Wine
Natural soft wine
[More infos](#)

R. FILLIÈRE

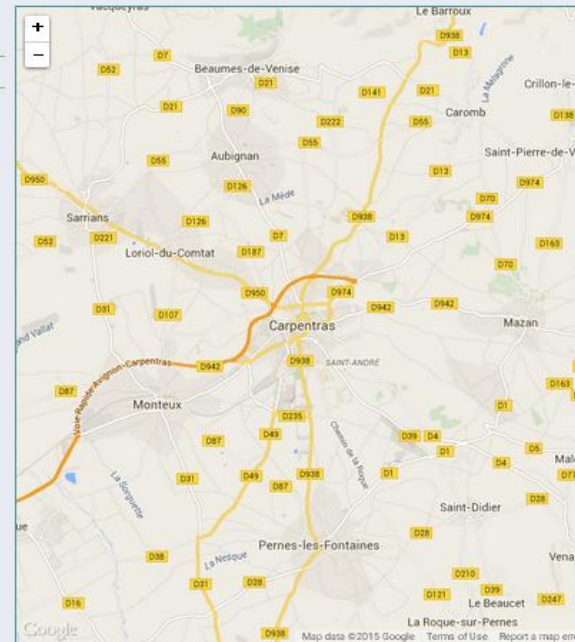
Cooked pork meats
Cooked and parma ham
[More infos](#)

G2E SUD-EST

Council on energy efficiency
Control of the contract and the energy consumption. Analysis and deduction of effective solutions for cost cutting
[More infos](#)

QUALISTEO

Council on energy efficiency
Development of a case for analysis of energy consumptions
[More infos](#)



Géo-SINERGIA

Find your energy efficiency partner

Choose country

YOUR COUNTRY

I'm looking for SOLUTION PROVIDERS

By type of technical solution

By type of manufacturing process

I'm looking for FOOD-PROCESSING COMPANIES

By industry

By innovative technology used

UK

FR

Contacts

Log in

Sign up



Information sheets

Name **Vignerons de Balme Venisia**
 Activities **Wine**
 Products **Natural soft wine**

Address **228 Route de Carpentras
 84 190 Beaumes-de-Venise**
 Country **France**
 Phone **+0033490124100**
 Website **www.beaumes-de-venise.com**

Contact **VACHER Michèle**
 Function **Quality and environment manager**

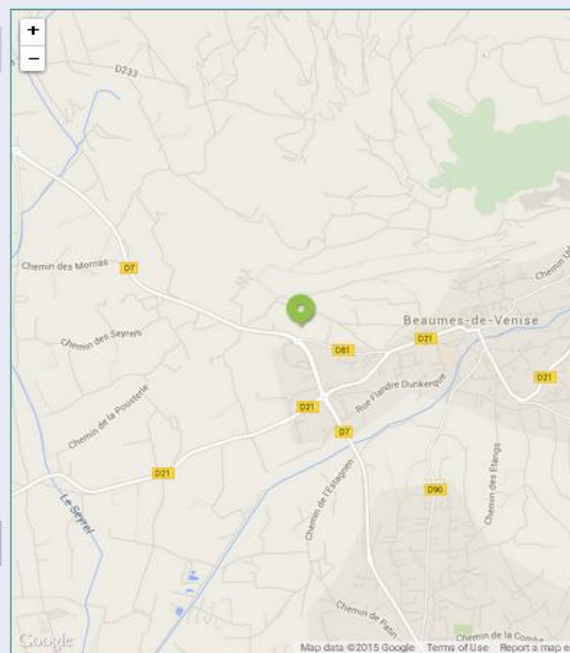
Nace code **1102B**
 Innovative process used **Heat recovery from hot waste water**



PRINT



BACK TO SEARCH RESULTS



Ευχαριστώ για την προσοχή σας

