

ZERO BRINE

Reusing resources from industrial wastewater

INTRODUCCIÓN A LA ONLINE BRINE PLATFORM





Online Brine Platform

Tres conceptos básicos:

- Intercambio de conocimiento
- Diálogo entre partes interesadas
- Sistema avanzado de simbiosis industrial europeo







Un espacio digital necesario



Promover la simbiosis industrial en la Unión Europea



Facilitar las sinergias entre entidades generadoras de salmueras y proveedoras de tecnología



Poner a disposición tratamientos de salmuera efectivos que den solución a problemáticas industriales



Impulsar la economía circular y la gestion eficiente de recursos

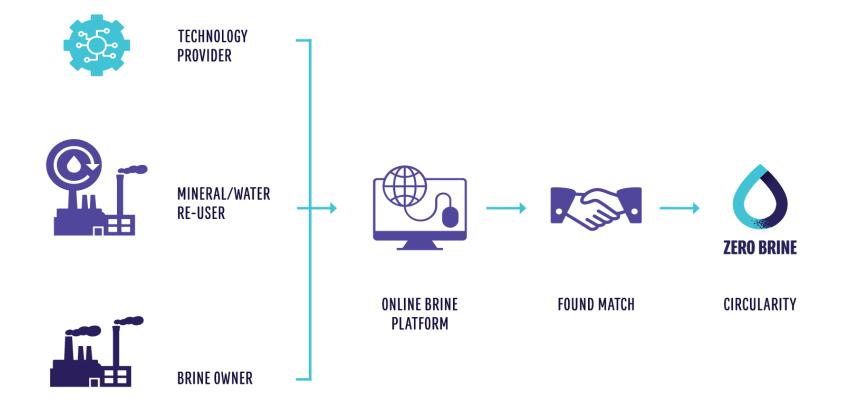


Agilizar el diálogo entre las partes interesadas o stakeholders





Online Brine Platform

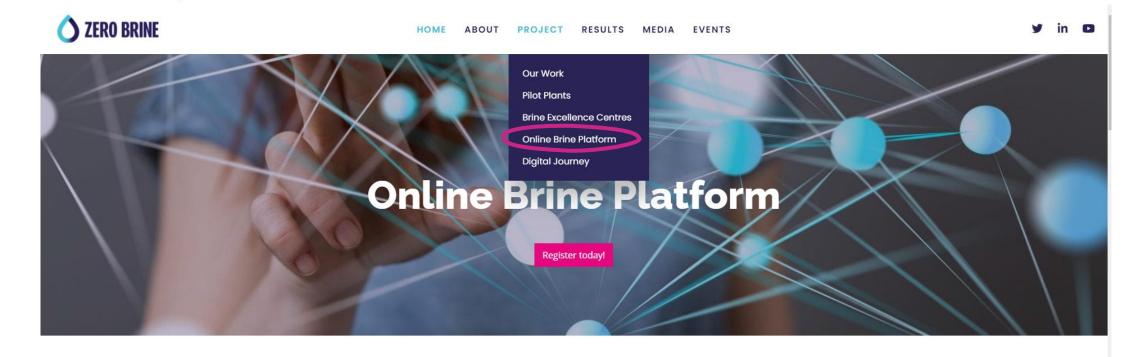






Acceso desde web

www.zerobrine.eu

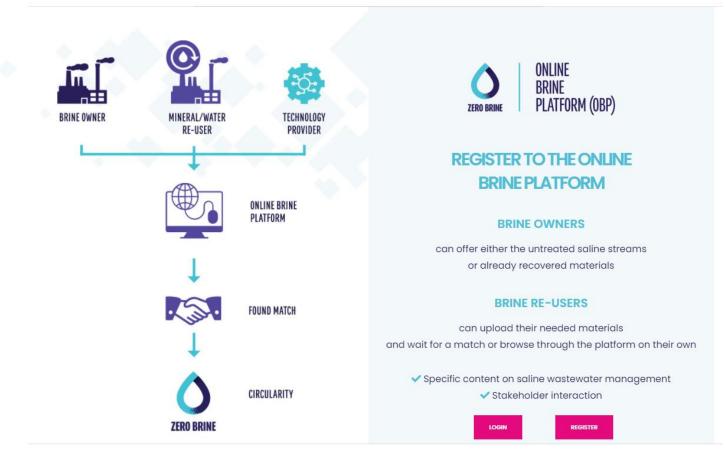






Registro paso a paso

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Registro paso a paso

REGISTRATION						
Connection details						
Username*	Password*	Confirm Password*	Email*			
Please note that your username will be visible to all OBP users.						
Industry details						
Industry Name		Select your Industrial Clus	ter 🔶			
NIC		Website				

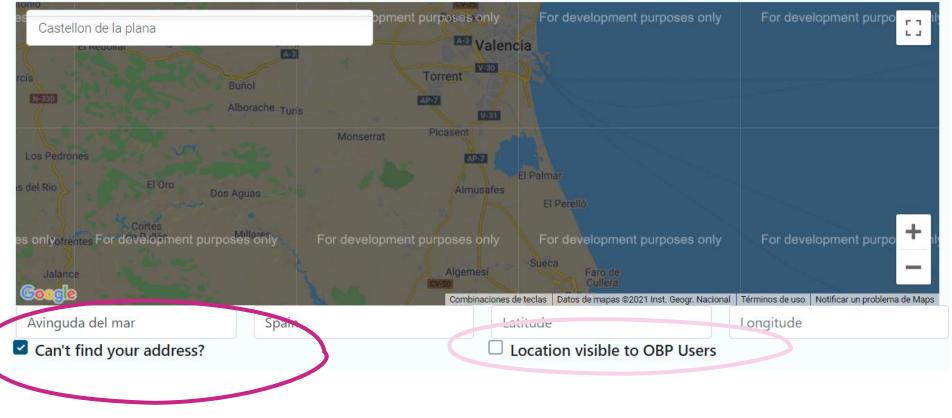




Registro paso a paso

Address

Please insert the address that corresponds to the facilities of your enterprise.

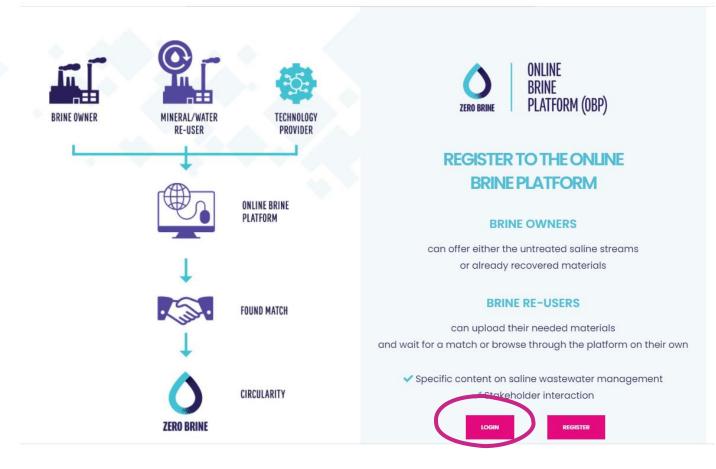






Login desde web

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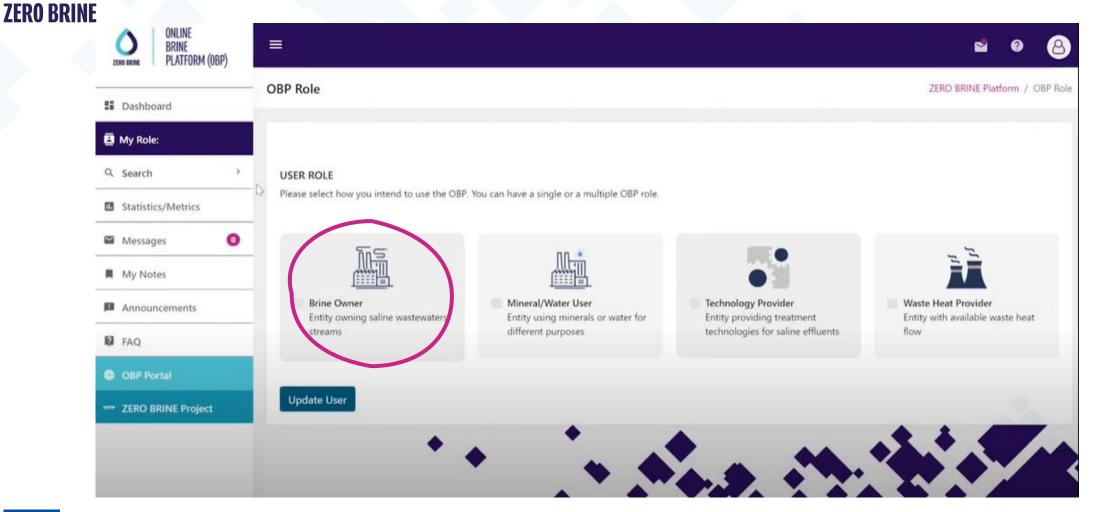
Navegando en la OBP

ONLINE BRINE P PLATFORM (OBP) ZERO BRINE **OBP** Role ZERO BRINE Platform / OBP Role Dashboard 🗄 My Role: Q Search USER ROLE Please select how you intend to use the OBP. You can have a single or a multiple OBP role. Statistics/Metrics Messages 0 言 My Notes Mineral/Water User **Technology Provider** Waste Heat Provider Brine Owner Announcements Entity owning saline wastewaters Entity using minerals or water for Entity providing treatment Entity with available waste heat different purposes. technologies for saline effluents flow streams FAQ OBP Portal Update User **ZERO BRINE Project** .





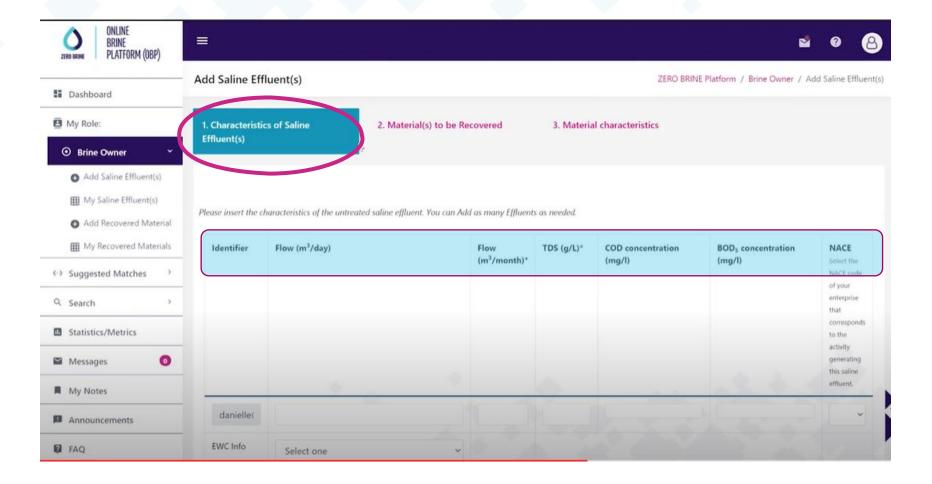
Generadores de salmueras







Generadores de salmueras







¿Qué industrias?

Food industry - fish and shellfish industry (NACE code: C10.2) Leather industry (NACE code: C15.1)

Food industry - Meat process (NACE code: C10.1)

Food industry - Pickling vegetables (NACE code: C10.3)

Food industry – Dairies (NACE code Group: C10.5)

Inorganic Chemical Industry (NACE codes: C 20.13)

Iron & Steel Production (NACE codes: C24.1, C24.2, C24.3)

Non-ferrous metal production (NACE codes: C24.4)

Oil - Petroleum refinery (NACE code: C19.2)

Paper and Pulp Industry (NACE code: C17.1)

Textile industry (NACE codes: C13.3, 13.9)

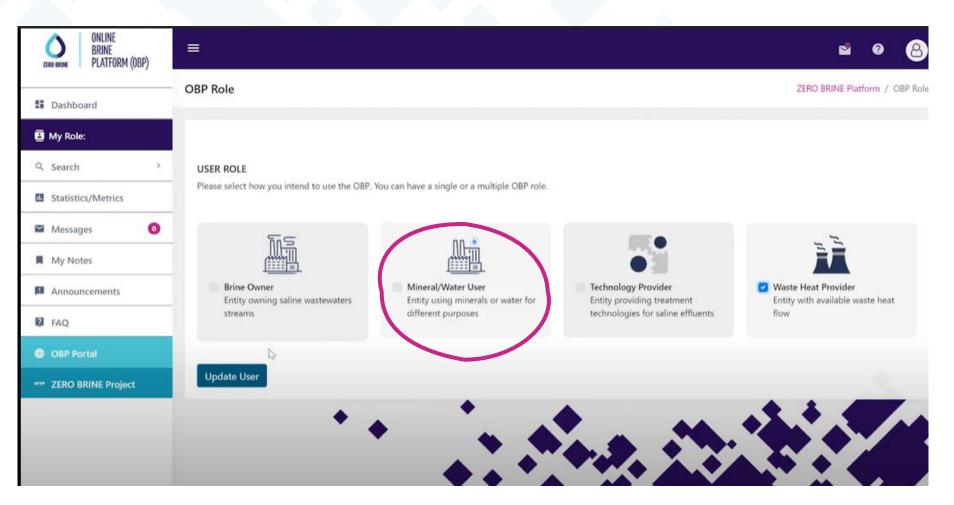
Water treatment (NACE code: E36.0)





Usuarios de minerales y agua

ZERO BRINE







Minerales de interés en la OBP

(NH₄)₂SO₄ (Ammonium Sulphate)

(NH₄)HCO₃ (Ammonium carbonate)

Ca(OH)₂ (Calcium hydroxide)

Ca₂SiO₄ (Dicalcium silicate)

Ca₃(PO₄)₂ (Tricalcium Bis(phosphate))

CaCl₂ (Calcium Chloride)

CaCO₃ (Calcium Carbonate)

CaHPO₄ (Calcium hydrogen phosphate)

Na₂CO₃ (Sodium Carbonate) Na₂S₂O₄ (Sodium Dithionite) Na₂SiF₆ (Disodium hexafluorosilicate) Na₂SiO₃ (Sodium metasilicate) Na₂SO₄ (Sodium Sulphate (anydrous)) NaCl (Sodium Chloride) NaHCO₃ (Sodium hydrogencarbonate)

NaHSO₃ (Sodium Hydrogensulfite)

CaSO₄ (Calcium sulphate) Cr₂(SO₄)₃ (Chromium Sulphate) K₂CO₃ (Potassium carbonate) KCl (Potassium Chloride) Mg(OH)₂ (Magnesium hydroxide) MgCl₂ (Magnesium chloride)

MgSO₄ (Magnesium sulfate)

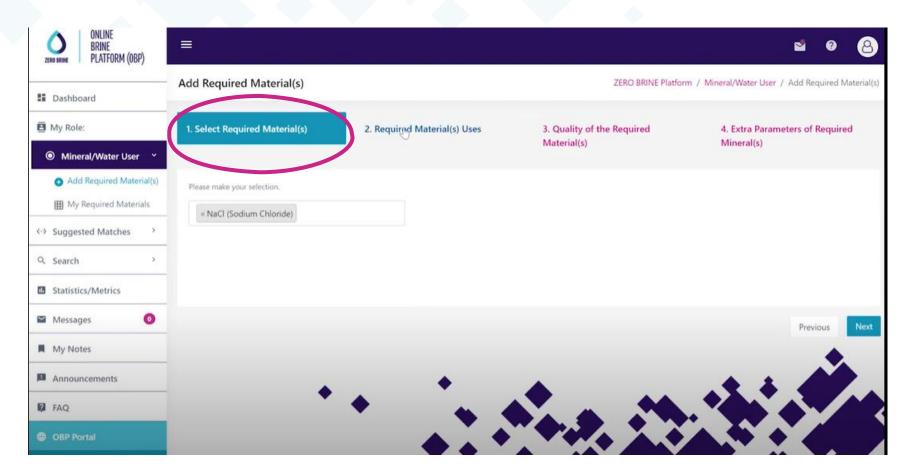
NaHSO4 (Sodium Hydrogen Sulfate) NaNO₂ (Sodium nitrite) NaNO₃ (Sodium Nitrate) NH₄Cl (Ammonium Chloride) NH₄NO₃ (Ammonium nitrate) Zr(SO₄)₂ (Zirconium Sulphate)







Usuarios de minerales y agua







Usuarios de minerales y agua

ONLINE BRINE PLATFORM (OBP)							1	⊴ 0 8		
E Dashboard	Add Required Material(s)				ZERO BRINE Platform / Mineral/Water User / Add Required Material(s)					
B My Role:	1. Select Required Material(s) 2. Required Material(s) Uses			3. Quality of t	he Required		4. Extra Parameters of Required			
Mineral/Water User Y					Material(s)	U	Mineral(s)			
Add Required Material(s)										
I My Required Materials	[
Suggested Matches	NaCl (Sodium Chloride)	Material	Identifier	Quantity	Sector of end-	Product	Article Category (AC)	Technical		
Q Search	Do you use this material in a single process?	Wateria	identifier	(kg/month)*	use (SU)	Category (PC)	Article Category (AC)	Function (TF)		
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My Notes										
Announcements										
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OBP Portal			•					Previous Next		





Proveedores de tecnología

ONLINE BRINE = \geq PLATFORM (OBP) ZERO BRINE **OBP** Role ZERO BRINE Platform / OBP Role Dashboard My Role: Q Search USER ROLE Please select how you intend to use the OBP. You can have a single or a multiple OBP role. Statistics/Metrics 0 Messages ns: My Notes Brine Owner Mineral/Water User **Technology Provider** Waste Heat Provider Announcements Entity owning saline wastewaters Entity using minerals or water for Entity providing treatment Entity with available waste heat different purposes technologies for saline effluents streams flow FAQ OBP Portal Update User **ZERO BRINE Project**





Proveedores de tecnología

ONLINE BRINE PLATFORM (0BP)		≥ 0 <u>8</u>
E Dashboard	My Technologies	ZERO BRINE Platform / Technology Provider / My Technologies
🖪 My Role:		
[] Technology Provider 👻	TECHNOLOGY PROVIDER	
My technologies Search	Please select the technologies that you provide for the treatment of a saline effluent.	
Statistics/Metrics	Choose Organics Removal	
🖴 Messages 🛛 🧿	Adsorption with electrochemical destruction Advance oxidation - ozone hydrogen peroxide	
My Notes	Brine purification / Ion Separation	
Announcements	Regeneration of membranes	•
FAQ OBP Portal	•	
*** ZERO BRINE Project	* * *	
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Proveedores de calor residual

ONLINE = BRINE \geq PLATFORM (OBP) ZERO BRINE **OBP** Role ZERO BRINE Platform / OBP Role Dashboard My Role: Q Search USER ROLE Please select how you intend to use the OBP. You can have a single or a multiple OBP role. Statistics/Metrics 0 Messages ns: My Notes Brine Owner Mineral/Water User **Technology Provider** Waste Heat Provider Announcements Entity owning saline wastewaters Entity using minerals or water for Entity providing treatment Entity with available waste heat different purposes technologies for saline effluents streams flow FAQ OBP Portal Update User **ZERO BRINE Project**





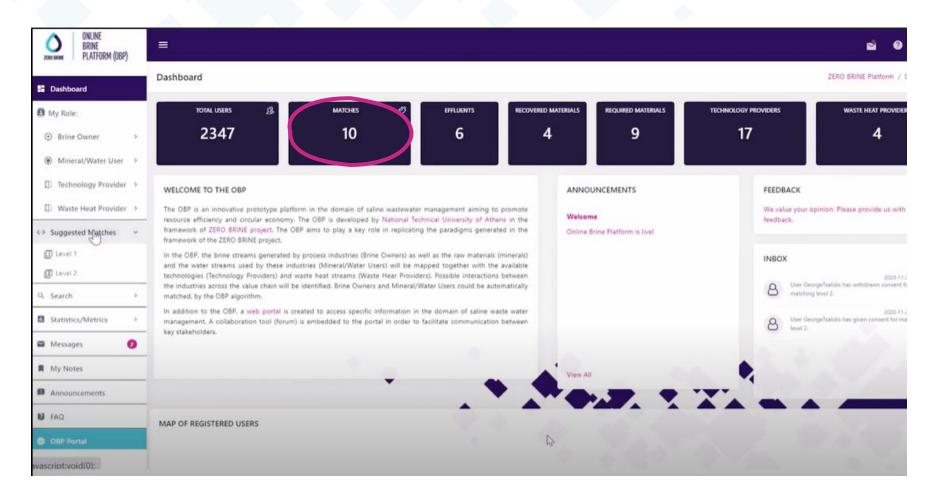
Proveedores de calor residual

ONLINE BRINE PLATFORM (OBP)	= 🛛 🖉 🙆
Dashboard	Waste Heat Provider ZERO BRINE Platform / Waste Heat Provider
🗄 My Role:	
Waste Heat Provider Add Waste heat flow	ADD WASTE HEAT FLOW Waste Heat Characteristics
My Waste heat flows Search	Type of waste heat flow
 Statistics/Metrics Messages 	Steam / exhaust vapour ~ Temperature (°C)
My Notes	
Announcements	Pressure (atm)
OBP Portal	Flow rate (m ³ /h)
**** ZERO BRINE Project	Flow rate variation





Buscar sinergias







Buscar sinergias

Dashboard	Level 1: Matching as Mineral/Wate	er User								
My Role:	Show 10 🛩 entries								What doe	es Consent mea
Brine Owner								Search		
Mineral/Water User →	Matched Saline Effluent	My Required = Material(s)	Industry Username	Sufficient Quantity	- Distance 3	My E consent	Action	Brine Owner © consent	Details 0	Contact
Technology Provider >	and the sum of the product of the	With support facility.	-	1		0	Consent	0	Details	Message
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FAQ				0		0	Consent	0	Oetails	Message





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ZERO BRINE HOME ABOUT PROJECT RESULTS MEDIA EVENTS Media Kits Visual Identity In the Press Videos **Photo Galleries** Videos CORE SHOW HOW TO REGISTER TO THE www.zerobrine.eu **ONLINE BR PLATFORM ZERO BRINE** 002:52 004:12 001:10 **ZERO BRINE pilot plant in Spain** How to register to the Online **ZERO BRINE - Driving results Brine Platform** and furthering the circular Jorge Pérez, Head of Research and economy Development at IQE, presents ZERO BRINE's ZERO BRINE is advancing the circular economy pilot project in Spain. Working in the silica and encouraging industrial symbiosis. The ZERO BRINE is advancing circular economy industry, ZERO BRINE harnesses new and Online Brine Platform is where it happens. solutions for Europe. existing technologies to help closetheloop on Michiel van Haersma Buma discusses how wastewater. ZERO BRINE is delivering results and helping Europe meet its climate targets.





Online Brine Platform



Accede al registro



Tutorial paso a paso (EN, subtitulado ES)

https://www.youtube.com/watch?v=-PEwmInONzQ





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