

Partner search

Company: SmartDry CIF:	
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Short Company presentation (R & D guidelines, international activities, etc.)

SmartDry is an innovative technology designed to revolutionize the mining and mineral processing industries by transforming tailings into valuable resources. A second area of interest is DEWATERING. Using proprietary new mechanical process, we can dewater at much lower CAPEX & OPEX costs any mining material (ores, concentrates and tailings). Using a proprietary inverted leaching process, SmartDry efficiently extracts critical metals such as tungsten zinc, gold, silver, and other valuable elements from polymetallic tailings. The system combines advanced chemical protocols with mechanical dewatering to produce stackable, low- humidity material that requires no additional processing, while also enabling carbon sequestration for environmental benefits. Our mission is to support the circular economy in mining by:

- Maximizing Resource Recovery: Extracting valuable metals from polymetallic tailings.
- Reducing Environmental Impact: Stabilizing tailings through carbonation and creating stackable, reusable materials.
- Driving Economic Growth: Generating additional revenue streams for mining operations through metal sales and carbon credits.

DESCRIPTION OF ITS TECHNOLOGY AND CAPABILITIES IN R & D (Products, technologies, applications, services, etc.)

At SmartDry, we are pioneering advanced solutions to transform mining waste into valuable resources. Our innovative technology focuses on liquefaction effects to create dewatering and inverted leaching and carbon sequestration, enabling the recovery of critical metals like tungsten, zinc, gold, silver, and more while addressing environmental challenges such as tailings management and carbon emissions.

The company has the following capabilities:

- Energy-efficient vibration systems with spring coils that recover up to 60% of vibrational energy.
- Dewatering up to 720K ton/month/equip. no filtering elements, just liquefaction.
- Scalable equipment capable of handling batch capacities ranging from 20 to 100 tons or more.

- Dual revenue streams: Equipment sales with a tech fee per ton processed or Hardware-as-a-Service (HaaS) models.
- Sustainability focus: Reduces tailings volume, recycles water, minimizes environmental risks, and generates carbon credits through mineral carbonation.
- Vision, MINE ALL, aims to maximize resource recovery, support the circular economy, and enhance Europe's strategic autonomy in critical raw materials while promoting eco-friendly mining practices.

PROPOSED COLLABORATIVE PROJECT IN R & D

(As much detail as possible, both in what it offers and what you want in a potential partner)

- **Technology offered to international partners:** Inverted Leach with combined carbon sequestration for NetZero mining.
- **Technology looking for an international partner:** We are looking for a company established in Spain that has a tailings deposit with precious, energetic or strategic metals and that has the technological capacity to collaborate in a demonstrator that aims at the recovery of metals, carbon Sequestration and the corresponding scalability of the project result.
- **Other specifications, requirements or comments:** The Spanish company should have tailing deposit with of precious, energy or strategic metals.
- **PROPOSED COLLABORATIVE PROJECT IN R & D:**

This partnership will develop of a technology demonstrator based on SmartDry's cutting-edge solutions in real-world mining environments and deter chemical and mechanical protocols for the tailing material used. Besides, it would be necessary to scaleup of precious, energy or strategic metals recovery from TAILINGS using our proprietary inverted leaching technology. The lixiviant is injected at the basis of the vessel and rises, passing through the vibrating grains, extracting metal.

The project will focus on:

1. Metal Recovery: Testing and optimizing protocols for extracting critical metals from tailings.
2. Carbon Sequestration: Implementing mineral carbonation processes to capture CO₂ and stabilize tailings.
3. Scalability: Validating the economic and technical feasibility of scaling up the technology for commercial use.

It represents a unique opportunity to advance sustainable mining practices globally with the objective of:

- Reducing reliance on imports of critical metals.
- Minimizing the environmental risks associated with tailings.
- Contributing to global carbon reduction goals.

General comments:

- By sending this information document authorizing its dissemination.
- A profile of the company must be attached: <http://www.smartdry.ca>