


ENEA



**PIATTAFORMA
ITALIANA DEL
FOSFORO**

Workshop

***La gestione circolare del fosforo:
RISULTATI E PROSPETTIVE DELLA
PIATTAFORMA ITALIANA DEL FOSFORO***



15
P
Phosphorous

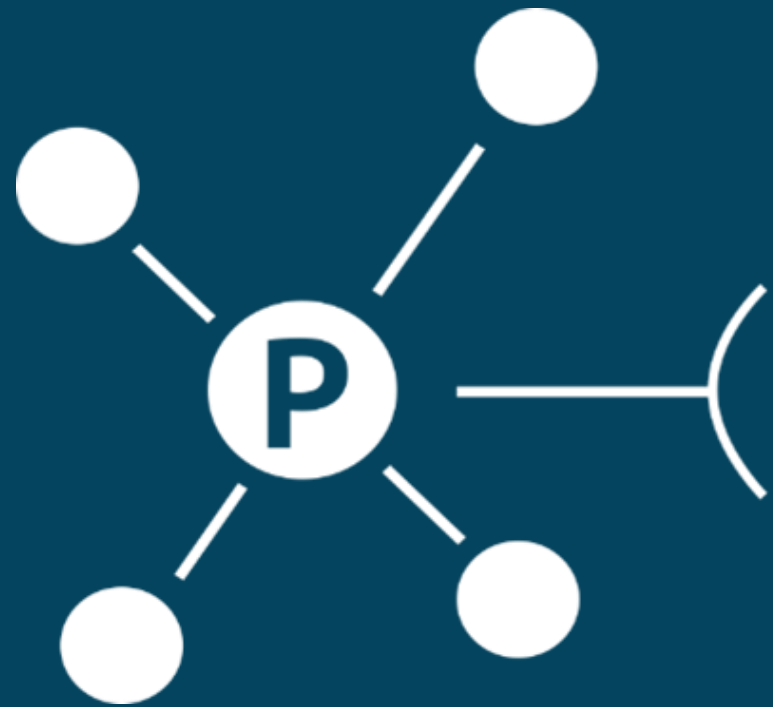
in collaborazione con:



**Ministero dell'Ambiente
e della Sicurezza Energetica**

**11 MAR
2026**

Auditorium
Ministero dell'Ambiente
e della Sicurezza Energetica



European Sustainable Phosphorus Platform

Veronica Santoro

11 Marzo 2026

Evento Finale Piattaforma Italiana del Fosforo

What is ESPP

ESPP is a neutral, non-profit organisation, established in 2014 and funded by its members, which brings together industry, knowledge institutes and public establishments, alongside national nutrient platforms, to promote and implement phosphorus sustainability and nutrient recycling in Europe.

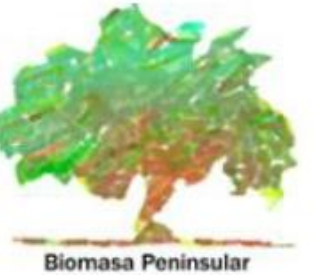
Transparency
Clear decision making
Representation

Payment = commitment,
credibility,
independence,
in touch with reality

Decision by consensus
Mediation and not
advocacy

**Balances the interests of society & industry from the
perspective of nutrient conservation**

Members



EU POLICY AND REGULATORY

- **EU Critical Raw Materials List**
 - SCREEN Process and CRM/SRM lists updates
 - CRM streams / potential for recycling
- **ResourceEU Action Plan**
- **EU Fertilising Products Regulation (FPR)**
 - Evaluation
 - New Materials (NMI study)
- **Chemicals Omnibus** – criteria-based CMCs – REACH+
- **Critical Chemicals Alliance**
- **FEFAC initiative “Circular Feed” industries**



EU POLICY AND REGULATORY

- **EU Critical Raw Materials List**
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- **Chemicals Omnibus** – criteria-based CMCs – REACH+
- **Critical Chemicals Alliance**
- **FEFAC initiative “Circular Feed” industries**
- **New CAP and Bioeconomy strategy**
- **Aquaculture sludge / SANTE / FPR / etc**
- **Taxonomy**
- **Green listing of wastes**
- **RENURE Nitrates Directive**
- **Organic Farming** – calcium phosphates authorised, but not “calcined phosphates”
- **Revised UWWTD (art. 20)**
- **Circular Economy Act (expected 2026)**



ESPP WORK UNDERWAY

Critical Raw Materials Act – SCRREEN Process

Outputs:

- **Quantitative Data (Criticality)**
 - Reserves, production, trade (% by supplying country + supply risk)
 - EU uses (% of total use by NACE sector)
 - Recycling & substitution potential
 - *Basis for identifying “Critical” materials*
- **Fact Sheets (Strategic Assessment)**
 - Supply chain, uses, market/geopolitical context
 - *Support identification of “Strategic” materials*
- Stakeholder workshop in Brussels, Feb 2026

SCRREEN2

This project has received funding from the European
Union's Horizon 2020 research and innovation programme
under grant agreement No 958211.
Start date: 2020-11-01 Duration: 36 Months



FACTSHEETS UPDATES BASED ON THE EU FACTSHEETS 2020

PHOSPHATE ROCK AND PHOSPHORUS

ESPP WORK UNDERWAY

EU Fertilising Products Regulation (FPR)

- **Joint industry position** calling to resolve the current slow and complex process for considering new input materials (CMCs), to take account of innovation, recycled and bioeconomy materials
- Member of the EU Fertilising Products Expert Group
- Input to European Parliament concerning [proposed amendments](#) to the Chemicals Omnibus to facilitate consideration of new materials as CMCs
- Input on final proposals for new materials/processes in the EU FPR (NMI report)

www.phosphorusplatform.eu/regulatory

Addressing structural barriers to innovation, circularity, and market access in the EU Fertilising Products Regulation (EU) 2019/1009

A joint statement by the undersigned nine associations: the European Consortium of the Organic-Based Fertilizer Industry (ECOFI), the European Biostimulants Industry Council (EBIC), the European Compost Network (ECN), the European Sustainable Phosphorus Platform (ESPP), EUROFEMA, Growing Media Europe, Fertilizers Europe, the European Potash Producers Association (APEP), and the European Biogas Association (EBA).



Executive summary

The current design and rationale of Component Material Categories (CMCs) under Annex II in the FPR create structural blockages that exclude innovative circular and bio-based materials, as well as many existing materials that are already placed on the market under national rules. As a result, the FPR is not delivering on its objectives related to innovation, market access, circularity, bioeconomy, and EU-wide harmonisation.

The current evaluation of the FPR should capture this structural problem and go beyond the assessment of individual materials by considering options for a more efficient, criteria-based approach to enable the systematic inclusion of new materials and processes under the framework.

Legislative context and policy objectives

The Fertilising Products Regulation (FPR) (EU) 2019/1009 was adopted to harmonise the EU market for fertilising products, ensure high standards of safety and environmental protection, and promote innovation and the circular economy, in line with the New Legislative Framework.

Annex II of the FPR, through the Component Material Categories (CMCs), defines which materials are eligible for use in EU fertilising products. The current approach, based on closed lists of components, is inconsistent with the principles of innovation, circularity and adaptability underpinning the EU's New Legislative Framework. In particular, it limits adaptability to technical progress and proportionality in regulatory design.

ESPP WORK UNDERWAY

Implementation of the revised EU Urban Waste Water Treatment Directive 2024/3019 (UWWTD), art. 20

Definition of combined minimum phosphorus reuse and recycling rates

- Observer of the **UWWTD Expert Group**
- Comments submitted to the draft JRC report (routes for sewage sludge management at present in Europe, and catalogues and assesses existing and potential phosphorus recovery techniques)
- Further parts of the report will concern risks from substances in sewage sludge applied to agricultural land, market viability of recovered phosphates and the waste hierarchy
- Rates must be defined by **end 2027**



Implementation of EU UWWTD art. 20: **P reuse and recycling rates**

8th -9th June 2026
Madrid, Spain

ESPP WORK UNDERWAY

Questions on possible phosphorus ‘quotas’ for fertilisers

Eunomia study commissioned by ESPP – Jan 2026

- Identifies 40+ policy questions on potential minimum recycled phosphorus quotas
- Developed by Eunomia for ESPP (not an ESPP position)
- Based on literature review & stakeholder consultation

Key Issues Raised

- Which fertilisers would be covered?
- Recycled P from sewage only or also manure, etc.?
- How to ensure quality if uptake becomes mandatory?
- Where to apply quotas (production, distribution, use)?
- Geographic scope (regional surpluses, imports/exports)?
- Tradeable quotas? Administrative & cost burden?

Questions on Possible Phosphorus Quotas for Fertilisers

January 2026



ESPP WORK UNDERWAY

ESPP and National Nutrient Platforms actions

- Working together to **coordinate actions on nutrients in EU**
- **Workshop for members** “*Regulatory aspects of recycled fertilisers*”, Feb 2026, 100+ participants, future members workshops to come
- Expertise to **R&D project consortia**

Looking to join consortia for calls in Horizon Europe Cluster 6, EU Soil Mission, Circular Bio-based Europe, Interreg, LIFE or other EU or national projects:

- Communication & Dissemination
- Multi-Actor Approach: access to industry across Europe, including fertiliser producers, chemicals, waste management, water treatment, technology providers
- Translation to Policy & Market: contacts with regulators and participation in policy and regulatory advisory structures



ESPP WORK UNDERWAY

Other activities

Input to EU public consultations

- Battery Labelling. The proposed Regulation update confirms the obligation to declare Critical Raw Materials present at > 0.1% w/w (so includes the element P).
- Revision of EU rules on Public Procurement. ESPP suggests that consideration of environmental aspects be no longer an option subject to difficult conditions, but be required wherever feasible
- ESPP input to EU consultation on Taxonomy
- ESPP input green-listing wastes

Letters to EU Commission, National Ministries, ...

ESPP regulatory activities

ESPP policy papers and proposals

- [Joint call for EU Circular Economy Act](#) (6_11_2025)
 - [ESPP detailed input](#) to EU consultation on Circular Economy Act (2_11_25)
 - [Targets for Phosphorus "Reuse & Recycling"](#) under the revised Urban Waste Water Treatment Directive
 - [Market pull policies](#) to support nutrient recycling (Jan. 2024, v18_1_25)
 - [Circular Economy perspectives](#) for EU water policy and for the Sewage Sludge Directive 14_10_24
 - [ESPP input to Nenuphar questionnaire](#) on EU policies on nutrient management 7_10_24
-
- **ESPP-EBA list of consultants active in areas relevant to phosphorus recovery and recycling**, including <https://www.phosphorusplatform.eu/consultantslist>
 - **Questions on possible phosphorus 'quotas' for fertilisers**, Eunomia, January 2026, commissioned
 - **Urban Wastewater Treatment Directive (UWWTD) recast, 2024/3019 (ESPP Summary)**
 - [ESPP letter UWWTD reuse recycling interpretation](#) 12_12_25
 - [ESPP letter](#) to Parliament and Council for trilogue, 25_10_2023
 - [ESPP position](#) on UWWTD amendments, 21_6_2023
 - [ESPP proposed amendment](#) to the revised UWWTD art20, 14_4_2023
 - **Taxonomy (sustainable finance criteria), 2020/852**
 - [ESPP input](#) to EU consultation on Taxonomy criteria, 3_5_2023

UPCOMING EVENTS

Annual world P and K industry & technology meeting place, covering the whole industry value chain: mining and resources, beneficiation, fertilisers – feed and industrial applications, environmental aspects of production management, sustainability.

18th CRU Phosphates & Potash 2026, Paris (Paris Marriott Rive Gauche Hotel), 13-15 April 2026 [Website](#)



Online workshop

CLIMATE EMISSIONS FROM PHOSPHATE FERTILISER USE

16th April 2026
16h00 – 18h00 CET

How does use of P fertilisers in the field impact climate emissions, e.g. via eutrophication effects or mitigation, crop carbon and soil carbon cycling? Discussion and conclusions will input into the Low Carbon Roadmap for phosphate fertilisers, under development by ERM consultants, supported by Systemiq consultants, for EBRD (European Bank for Reconstruction and Development) and IFA (International Fertilizer industry Association), to be presented at the IFA Cultivating Tomorrow Conference (June 2026).

If you wish to present, contact info@phosphorusplatform.eu

UPCOMING EVENTS

Nutrients in Europe Research Meeting

The European Sustainable Nutrient Initiative (ESNI) Conference and the Nutrients in Europe Research Meeting (NERM) are merging into a single reference meeting to put together all the community working on research and innovation focused on nutrient management and to showcase the latest research and demonstration outcomes in nutrient management and nutrient recycling. [Website](#)

ESNI-NERM

28-29 April 2026 **Brussels & hybrid**



Implementation of EU UWWTD art. 20: **P reuse and recycling rates**

8th -9th June 2026
Madrid, Spain

Workshop to input to the **development of proposals for phosphorus “reuse and recycling rates” from sewage**, update on P-recovery, with participation of the European Commission Joint Research Centre (JRC). The workshop will include presentation and discussion of the Eunomia study on questions for policymakers for possible ‘quotas’ for recycled P in fertilisers (see below). Site visits to P-recovery and P-removal operations and research. [Website](#)

If you wish to present, please contact info@phosphorusplatform.eu

UPCOMING EVENTS

World's leading phosphorus chemistry conference (every 3 years, 60+ years history), covers biology, health, materials science & industrial phosphorus chemistry

ESPP Session (July 2026)

- “Industrial organo-P chemicals without P₄”
- Alternatives to the P₄ furnace route
- Applications: batteries, water treatment, pharma, catalysts, PV, fire safety
- Focus on feasibility, scale-up & energy balance

[Website](#)



ESPC is the world's leading sustainable phosphorus event, co-organized in 2026 by OCP Group and ESPP, with support of UM6P (University Mohammed VI Polytechnique). 24-26 November 2026, in Ben Guerir.

- P-recovery and recycling, P-removal, interactions between climate change and phosphorus, including impacts on P dynamics, carbon sequestration, soil fertility, crop productivity, and nutrient requirements, fertilisers, P-stewardship and their role in supporting sustainable food systems and food security, sustainability in P mining and processing

Site visit to a phosphate mine + Young Nutrient Researchers Day. [Website](#)

CONTACTS



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ROBERT VAN SPINGELEN

President

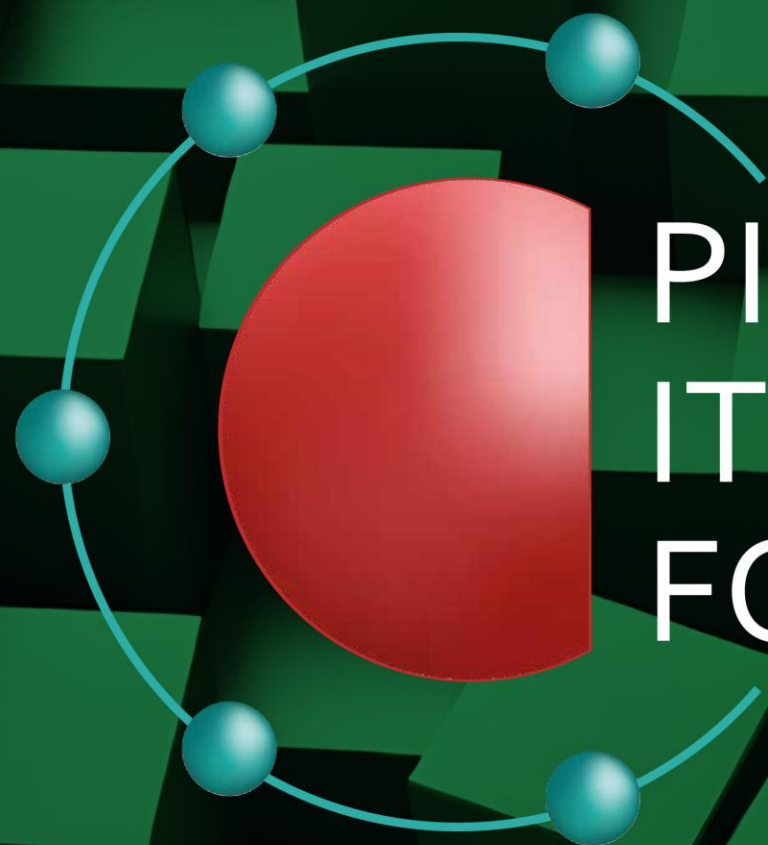
president@phosphoruplatform.eu

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*Thank
You*



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La Piattaforma Nazionale del Fosforo
è una iniziativa promossa dal
Ministero dell'Ambiente e della Sicurezza Energetica



ESPP in action

NETWORKING AND CONTACTS

ACCESS to expertise, experience, competence

DIALOGUE with policy makers, technical organisations, stakeholders

COMMUNICATION of proposals for collaboration and calls

SHOWCASE of Members' actions, project results, success stories and innovations

EXCHANGE with national Nutrient Platforms and projects, international organisations

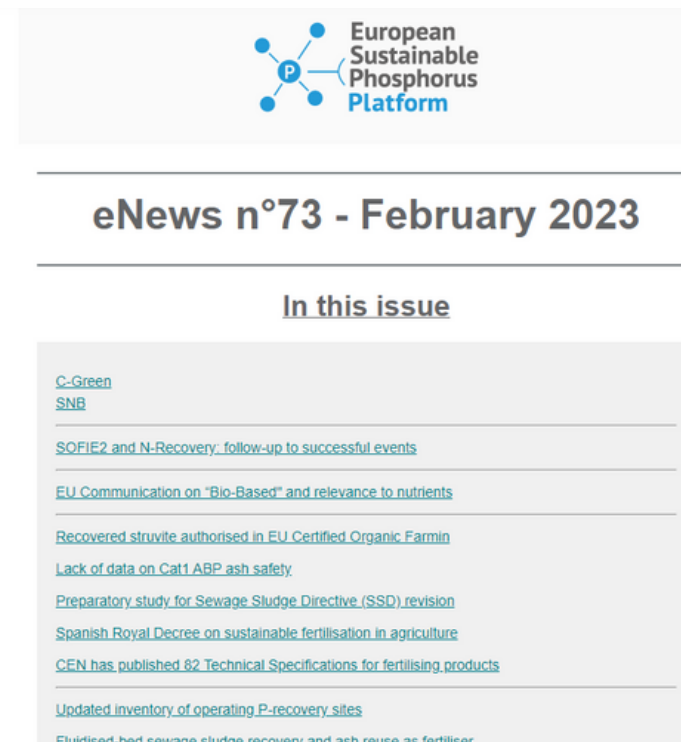
AWARENESS AND COMMUNICATIONS



The screenshot shows the website's navigation menu at the top: Home, Platform, Activities, Members, Links & Resources, SCOPE & News, Subscribe, and Events. The main header features the platform's logo and the text "European Sustainable Phosphorus Platform". Below this, a blue banner contains the text: "Recovered struvite authorised in EU Certified Organic Farming". A sidebar on the left includes a "SUBSCRIBE to eNews & SCOPE Newsletter" section with an email address input field and a "Country:" dropdown. The "IN THE SPOTLIGHT" section highlights the article "What does the term 'Bio-Based Fertiliser' mean?" and mentions the EU Communication on "Bio-Based" and relevance to nutrients.

WEBSITE

www.phosphorusplatform.eu



The screenshot displays the newsletter header with the logo and the title "eNews n°73 - February 2023". Below the title, the section "In this issue" lists several articles with blue hyperlinks: "C-Green SNR", "SOFIE2 and N-Recovery follow-up to successful events", "EU Communication on 'Bio-Based' and relevance to nutrients", "Recovered struvite authorised in EU Certified Organic Farming", "Lack of data on Cat1 ARP ash safety", "Preparatory study for Sewage Sludge Directive (SSD) revision", "Spanish Royal Decree on sustainable fertilisation in agriculture", "CFN has published 82 Technical Specifications for fertilising products", "Updated inventory of operating P-recovery sites", and "Fluidised-bed sewage sludge recovery and ash reuse as fertiliser".

NEWSLETTER

[SCOPE and eNews](#)
115.000+ emailing list



The screenshot shows the Twitter profile for "Phosphorus Platform" (@PhosphorusESPP). The profile picture is a blue circular logo with a white 'P' and a network diagram. The bio reads: "European Sustainable Phosphorus Platform (ESPP): phosphate resources, mining, agriculture, food, diet, eutrophication, nutrients recycling & efficient use". The location is "Europe" and the website is "phosphorusplatform.eu". The account was joined in January 2013. It has 336 following and 2,481 followers. The navigation tabs at the bottom are "Tweets", "Replies", "Media", and "Likes". The right sidebar shows a search bar and a "You might like" section with recommendations for "AllThingsBio", "World Biog", and "VaccinesTr".

SOCIAL MEDIA

[LinkedIn](#)
2.870 followers

ESPP EU nutrient research & development projects list

EU H2020 (FP), LIFE, INTERREG and national/industry funded R&D projects on nutrient recycling and management

Date: 15-06-2021



European Sustainable Phosphorus Platform (ESPP)
info@phosphorusplatform.eu - Chris Thornton, Secretary General
www.phosphorusplatform.eu

Please provide your inputs for this database by writing to
veronica.santoro@phosphorusplatform.eu

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P-RELATED R&D PROJECTS INVENTORY

www.phosphorusplatform.eu/R&D

NUTRIENT RECOVERY TECHNOLOGY CATALOGUE

<http://www.phosphorusplatform.eu/techcatalogue>

To be extended to P removal technologies

ESPP – DPP – NNP nutrient recovery technology catalogue <http://www.phosphorusplatform.eu/techcatalogue>

Disclaimer:

This document aims to provide an indicative overview, not technical information to support decision making. It is accurate to the best of our knowledge, but further information and updates should be sought from the indicated contacts. The information included has been discussed between ESPP and the technology suppliers, and in general validated by these companies. However, ESPP, DPP and NNP do not have resources necessary to audit information provided and information is included as provided by the companies. Inclusion in this document does not constitute any endorsement of technology(ies) by the nutrient platforms, nor validation of intellectual property nor commercial claims.

Sewage P-recovery: full scale plants operating or under permitting/construction	2	CarboREM	14	Susphos	24
Fertiliser industry – E.g. ICL, Borealis ...	2	Other nutrient recovery TR6+	15	Spodofos (ThemusP)	24
Ash2Phos (EasyMining)	3	N2-Applied	15	SIMPhos-process (Cirkel)	25
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