

ESPP workshop on Nutrients in aquaculture and fisheries

Bergen (Norway) and online, 10-12 June 2025

<https://phosphorusplatform.eu/AquacultureFisheries>

ESPP workshop, with partners in Norway and [UNEP uPcycle](#), on nutrient management in aquaculture feed, seafood processing and fish sludge valorisation covering:

- nutrient flows,
- environmental best practice,
- phosphorus recycling,
- regulatory challenges.

The workshop will contribute to the United Nations (UNEP) project uPcycle, leading to a UNEP white paper on phosphorus sustainability in aquaculture.

Event location

Bergen (Norway) @ NORCE (Nygårdsgate 112, 5008 Bergen) + online.

Programme

10 June 2025

13.30 – 14.00	Registration and welcome coffee
14.00 – 14.15	Opening and welcome by organisers (ESPP, NORCE, NCE Aquaculture, Ragn-Sells)
14.15 – 15.45	Session I. <ul style="list-style-type: none">• <i>Nutrient flows in aquaculture and fisheries, predicted growth, potentials for circularity and improved nutrient use efficiency</i>• <i>Nutrient sustainability as part of aquaculture industry sustainability vision and strategies (industry federations, leading salmon companies)</i>• <i>Nutrient flows and recycling in seafood processing waste</i>
15.45 – 16.15	Coffee break
16.15 – 18.00	Parallel session IIA. <i>LCA, circularity business models</i> Parallel session IIB. <i>Efficiency of use of nutrients in aquaculture feed – aquaculture feed and improved nutrient use efficiency, finding new sustainable feed protein sources as aquaculture grows and wild fish production (so processing by-products) recede, moving from fish-protein based to plant based feeds, possible use of facilitating products (phytase ...)</i>
19.30	Networking dinner

11 June 2025

8.30 – 9.00	Registration and welcome coffee
9.00 – 10.30	Parallel session IIIA. <i>Aquaculture sludge recycling via algae, growing algae as fish feed</i> Parallel session IIIB. <i>Recycling of aquaculture sludge – technical aspect: aquaculture sludge collection (onshore, offshore) and processing (biogas, cement kiln incineration, transformation to organic fertilisers, extraction of mineral nutrients ...): examples of technologies, presented by technology suppliers and/or by user aquaculture operators</i>
10.30 – 11.00	Coffee break
11.0 – 12.45	Session IV. <i>Recycling of aquaculture sludge – regulatory challenges (Animal By-Products Regulation, EU Fertilising Products Regulation, Animal Feed regulations ...) and policy opportunities; development of policy proposals – Europe, global</i>
12.45 – 13.00	Final remarks and following steps
13.00 – 14.00	Light lunch

14.00 – 14.45	White paper discussion
14.45 – 15.00	Closing
15.30 – 17.00	Visit to Marineholmen RASlab where there is RAS facilities (research) with salmon connected with microalgae cultivation.
17.30 – 19.30	Optional tourist visit to city of Bergen
20.00 - ...	Dinner (free)

12 June 2025

9.00 Optional site visit to Ragn-Sells sites

14.00 End of site visit