

Open letter: Counting on new hydropower to accelerate Renewable Energy deployment in Europe is irresponsible.

Dear Ambassador Lars Danielsson, Permanent Representative of Sweden to the European Union,

Dear MEP Markus Pieper,

Dear MEP Christian-Silviu Buşoi,

Dear Commissioner Kadri Simson,

Dear EVP Frans Timmermans,

Dear Commissioner Virginijus Sinkevičius,

Cc: MEP Nils Torvalds, MEP Pascal Canfin, Shadow rapporteurs from the ITRE Committee for the revision of the Renewable Energy Directive.

We are reaching out to you as a broad coalition of civil society organisations active in the climate and biodiversity fields, to ask you to agree on a revised Renewable Energy Directive that truly catalyses renewable energy development in Europe and also works for the protection of our water resources and fragile freshwater ecosystems.

We ask you in the trilogue negotiations to:

1. **At least retain the new article 29b on sustainability criteria for hydropower proposed by the European Parliament (RED III)**, as it recognises that hydropower has direct impacts on freshwater ecosystems which must be mitigated.
2. **Ask Member States to exclude new hydropower plants from go-to areas (RED IV)**, as the Council's general approach from 21 December on REPowerEU, which only gives Member States the option to exclude new hydropower plants from go-to areas, does not go far enough.

Hydropower has devastating impacts on freshwater ecosystems and strongly alters the ecosystem services provided by natural rivers. It affects one of the most degraded ecosystems in Europe, as only 40% of surface water bodies are in good ecological status.¹

By including hydropower in the category of renewable energy source without any particular restriction, the Renewable Energy Directive (RED) has incentivised hydropower development in Europe over the past ten years. We believe that greenfield hydropower capacity built after the adoption of the revised Renewable Energy Directive should not count towards the EU and Member States renewable energy targets, in line with the [manifesto](#) signed by 150+ NGOs in

¹ <https://www.eea.europa.eu/ims/ecological-status-of-surface-waters>

2020. NGO-led scenarios show that it is possible to achieve climate neutrality at EU level in 2040 without further hydropower expansion across the EU.²

As regards REPowerEU, we think that new hydropower projects, or hydropower projects which had been introduced but were on hold because of environmental issues, should be excluded from the 'go-to areas' and streamlined permitting under the amended Renewable Energy Directive. With hydromorphological alterations the main cause of failure to achieve the good ecological status of rivers, hydropower plants must never be exempted from environmental assessments, or automatically declared of overriding public interest. In addition, the rising costs of new hydropower projects and rising number of litigation around them, are not in line with the intended purpose of "go-to" areas to facilitate and accelerate the deployment of renewables.

The European Commission's REPowerEU proposal has already led a number of Member States to announce new hydropower projects or reintroduce some controversial ones, including foreseeing public financing under Member States' recovery and resilience plans (RRPs). In December 2022, Romania adopted an emergency ordinance resurrecting nine hydropower projects in protected areas which had been put on hold, some of them even deemed illegal by national courts, because they would dry up rivers, cause deforestation, or lead to the extermination of fish species.³

Without a clearcut exclusion of hydropower from go-to areas, it is not nine cases, but potentially hundreds of them which will be greenlighted. This needs to be stopped urgently. Failing to take action would not only be oblivious of EU environmental law, but also send hydropower operators and Member States the very wrong signal that new hydropower development is part of the solution to the current climate and energy crisis.

Europe is struggling with rising energy prices and with a climate emergency. For those reasons, accelerating the deployment of renewables such as solar and wind is a necessity, but hydropower must be dealt with in a different way.

Hydropower represents about 10% of EU electricity generation and more than half of the electricity produced in Austria, Croatia or Luxembourg actually comes from hydropower.⁴ This has come with a cost for freshwater ecosystems, as hydropower plants affect the hydrology and morphology of rivers, and all the ecosystem services they provide. Because the hydropower potential has been so exploited already, new hydropower would only make a small contribution

² [Building a Paris Agreement Compatible \(PAC\) energy scenario](#), CAN Europe/EEB technical summary of key elements, June 2020, pages 33-34.

³ <https://balkanriverdefence.org/news/basca-mare-dam-plans-resurrected/>

⁴ European Environmental Agency, [Water resources across Europe - Confronting Water stress: an updated assessment](#), 2021, page 71.

to the energy transition.⁵ In addition, hydropower reservoirs are also responsible for methane emissions because of decomposition of organic matters.⁶

The vast majority of hydropower production relies on steady flows. But can Europe count on steady flows anymore? Water stress affects 20% of the EU territory on average every year⁷, and six out of the top-10 global risks over the next ten years highlighted by the World Economic Forum are directly linked to water & freshwater ecosystems.⁸ In Europe, precipitation patterns will become more unreliable in the future, making both water stress and floodings more frequent and more intense, and putting hydropower production at threat in many parts of Europe.⁹ Croatia for instance, which is dependent on hydropower for over 50% of its electricity generation, is expected to see its hydropower production decrease by 10% in all seasons but winter because of reduced precipitation.¹⁰

Freshwater biodiversity is the most at risk globally among all species groups. Europe is the continent where populations of freshwater migratory fish are declining the fastest - we lost 93% of them since the 1970s.¹¹ Impoundments and river barriers are one of the main causes of this decline, and the EU Biodiversity Strategy has identified their removal as one of its flagship actions. Building new hydropower plants is completely at odds with the protection and restoration commitments of both the EU Biodiversity Strategy and the Kunming-Montreal Global biodiversity framework (targets 2,3 and 11).

For all these reasons, new hydropower development is not part of the solution to the current climate and energy crisis.

We thank you for your consideration and would appreciate meeting with you for further exchange on this issue.

Yours sincerely,



⁵ Even if all of the 5,500+ hydropower plants planned in the EU (in addition to the 19,000+ existing ones) were built, the share of the EU electricity generation provided by hydropower would go from 10% to 11.2-13.9%. (Source: EuroNatur, GEOTA, RiverWatch, WWF, [Hydropower pressure on European rivers: The story in numbers](#), 2019, and Eurostat, 2017).

⁶ Soued, C., Harrison, J.A., Mercier-Blais, S. et al, [Reservoir CO2 and CH4 emissions and their climate impact over the period 1900–2060](#). Nat. Geosci. 15, 700–705, 2022.

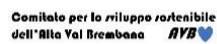
⁷ European Environmental Agency, [Water resources across Europe - Confronting Water stress: an updated assessment](#), 2021.

⁸ World Economic Forum, [The Global Risks Report 2023](#), January 2023.

⁹ Gøtske, E.K., Victoria, M., [Future operation of hydropower in Europe under high renewable penetration and climate change](#), 2021, iScience. 24, 102999.

¹⁰ <https://climate-adapt.eea.europa.eu/en/countries-regions/countries/croatia>

¹¹ WWF, [Living Planet Report](#), 2022.







- A Rocha International
- AEPIRA-Asociación en defensa del piragüismo y de los usos recreativos del agua
- Agent Green
- Allier Sauvage
- Aqua Transilvae Club
- Arnika, Centre for Citizens' Support
- Asociația Bankwatch Romania
- Asociația Club Sportiv Fly Reghin
- Asociația Clubul Sportiv Fly Fishing Extreme
- Asociația Declic
- Asociația Fly Fishing Bucovina
- Asociația Fly Fishing Club Sibiu
- Asociația Fly Fishing Rarau
- Asociația Grupul Pescarilor Sportivi Orădeni
- Asociația Pescari Amărășteni
- Asociația Pescarilor Sportivi Aqua Crisius
- Asociația Pescarilor Sportivi Bega Poieni
- Asociația Sportiva Fly Fishing Bistrita
- Association Agréée des Pêcheurs Professionnels en eau douce du Bassin Loire-Bretagne
- Association Nationale pour la Protection des Eaux et Rivières-Truite Ombre Saumon
- Association of Environmental Journalists and Ecological Tourism from Republic of Moldova
- Association of Tourism Development in Moldova
- Association of Women for Environmental Protection and Sustainable Development - AFPMDD
- Association Protectrice du Saumon pour le bassin Loire-Allier
- Balkan River Defence
- Balkanka Association
- Baltic Environmental Forum Group
- Bankwatch
- BirdLife Europe and Central Asia
- Buglife – The Invertebrate Conservation Trust
- Bund für Umwelt und Naturschutz Deutschland e.V. (BUND) – Friends of the Earth Germany
- Canoa Club Trento

Carpatica Fly Fishing
CEEweb for Biodiversity
Centar za životnu sredinu
Center for Protection and Research of Birds of Montenegro
Center for Research and Information for the Environment Eko-svest
CIREF - Iberian Centre for River Restoration
CIRF - Italian Centre for River Restoration
Clubul Muscaricilor Timișoara
Coalition Clean Baltic
Coalition for the protection of rivers in Bosnia and Herzegovina
Comitato per lo sviluppo sostenibile dell'Alta Val Bremban
Comité National de la Pêche Professionnelle en eau douce
Commission Internationale pour la Protection des Alpes - CIPRA
COORDINAMENTO NAZIONALE TUTELA FIUMI - FREE RIVERS ITALIA
CUTEZATORUL Falesti, Republic of Moldova
DÉFENSE DES MILIEUX AQUATIQUES
Deutscher Angelfischerverband e.V.
Deutscher Naturschutzring e.V.
Eco-Razeni Association, Republic of Moldova
EcoContact /Aarhus Centre for Environmental Information and Consultation
Ecological Association Rzav
Environmental Center for Development Education and Networking, Albania
Environmental Protection Public Association, Republic of Moldova
European Environmental Bureau – EEB
EuroNatur
European Anglers Alliance
European Cave Protection Commission
European Herpetological Society - Societas Europaea Herpetologica
European Rivers Network
Federația Coaliția Natura 2000 România
Fédération Auvergne Nature Environnement
Fédération SEPANSO Aquitaine
Fédération Spéléologique Européenne asbl.
Federazione Nazionale Pro Natura
Foundation for Biebrza
Foundation for Education and Development, Moldova
Free Rivers Fund
Fundacja EkoRozwoju
Fundatia Eco-Civica
Generation Earth
GEOTA
Global Youth Biodiversity Network European Chapter
GRÜNE LIGA e.V.
Habitat

Herpetološko društvo - Societas herpetologica slovenica
International Rivers
Jägala kalateed MTÜ
Latvijas Dabas Fonds - Latvian fund for nature
Latvijas ornitoloģijas biedrība - Birdlife international Latvia
Leeway Collective
Legambiente FVG APS
Let's Do It Peja
Lithuanian Fund for Nature
Living Rivers Foundation
Mammal Conservation Europe
MedINA - Mediterranean Institute for Nature and Anthropos
Natagora
Natuurpunt
Naturskyddsföreningen – Swedish Society for Nature Conservation
ÖKOBÜRO
Olive Growers Association Boka - Boka of Kotor
Open Rivers Programme
Organizatia Salvati Prutul din Iasi
Österreichischer Alpenverein
Österreichischer Fischereiverband - ÖFV
Österreichisches Kuratorium für Fischerei und Gewässerschutz
Podkarpacie Towarzystwo Przyrodników Wolne Rzeki
Polish Ecological Club
Polish Society for the Protection of Birds - BirdLife Poland
proTEJO - Movement for the Tagus river
REVIVO - Institute for ichthyological and ecological research
Rewilding Europe
Rewilding Sweden
RiverWatch
Rural Renaissance
SHOAL
Societatea Carpatina Ardeleana
Sportfiskarna
Stowarzyszenie Ekologiczne EKO-UNIA, Poland
Suomen luonnonsuojeluliitto - The Finnish Association for Nature Conservation
Synchronicity Earth
Tartu Sportfishing Club
Terra-1530
The Public Association of the Society of Ecotoxicologists from Republic of Moldova ECOTOX
Tiroler Fischereiverband - Tyrolean Fishing Association
Towarzystwo na rzecz Ziemi, Society for the Earth
Uja Centre, Albania
Umanotera, The Slovenian Foundation for Sustainable Development

Umweltdachverband
Umweltorganisation VIRUS
WET - Wildwasser erhalten Tirol
Wetlands International Europe
WildFish
World Fish Migration Foundation
World Sturgeon Conservation Society
WWF European Policy Office
Youth Ecological and Security Zone- EcoZ
Zaļā Brīvība - Green Liberty
Zelena akcija / Friends of the Earth Croatia