Water4All
Water security for the planet

Water4All Joint Transnational Call 2024 on „Water For Circular Economy"
Pre-Proposals invited to submit a Full Proposal in Step 2

European Partnership

Proposal No	Acronym	Title	Keywords
CIRCECO-WATER4ALL-013	C2C	From Contaminant to Commodity: Toward a Circular Economy for Arsenic in Groundwater	Groundwater chemistry, arsenic treatment, drinking water production, critical raw materials, advanced functional materials
CIRCECO-WATER4ALL-019	CIRCULAR-BE	Optimization of Water Usage and Circularity in Beverage Production Processes for Sustainable Resource Management	beverage industry, membrane separation, Cleaning-in-Place wastewater treatment, water circularity, circular economy
CIRCECO-WATER4ALL-034	SaltRec	Integrated resource recovery from saline wastewaters in a circular context	anaerobic digestion, desalination, methalgae, saline wastewater, water circularity
CIRCECO-WATER4ALL-035	BrineMan	Sustainable brine management	Brine, management, reuse, resource recovery
CIRCECO-WATER4ALL-043	CEWFEE	Circular Economy for Water, Food, Energy and Ecosystems	Governance, Modeling, Regulation, System Dynamics, Scenario
CIRCECO-WATER4ALL-053	Green4Grey	Urban Green Infrastructure for Safe Greywater Treatment and Reuse	Urban Water Circularity; Decentralized Nature-based treatment; City Information Model (CIM); Risk Assessment Framework; IoT-Enabled Monitoring
CIRCECO-WATER4ALL-069	WATER-D	Water Approaches Towards Enhanced Resilience and Digitalization	rain and surface water, smart monitoring, water circularity, stakeholders involvement, Service Hub
CIRCECO-WATER4ALL-075	VERBENA	Recovering Valuable Compounds from Wastewater and Microalgae in a Water–Food Nexus	water reuse, microalgae cultivation, hydrodynamic cavitation, resource recovery, cell wall structure
CIRCECO-WATER4ALL-084	RECLAIM	Systemic water circularity for reducing impacts of hydroclimate extremes in urban areas	Systemic interactions; Urban floods and droughts; Technologies; Water governance; Modelling; Adaptative policies pathways
CIRCECO-WATER4ALL-087	ULTRABUBBLES	Nanobubble technology for sustainable wastewater treatments: microalgae recovery and simultaneous micro-pollutant and microplastics removal	Microplastics flotation, microalgae recovery, wastewater circular reuse, advanced oxidation, emerging pollutants
CIRCECO-WATER4ALL-090	CLEAR-WATER	Circular Localized Environmental Approaches for Resourceful Water Monitoring and Reuse	Water Circularity; Resource Recovery; Real-Time Monitoring; Urban Water Management; Sustainable Reuse
CIRCECO-WATER4ALL-120	VALORBIO	Valorizing agrifood wastewater through advanced biorefining techniques for sustainable packaging solutions	biopolymer production, bioplastics, biodegradability, sustainable packaging, wastewater treatment
CIRCECO-WATER4ALL-121	IN.CYCLE	Closing the loop: an innovative treatment train for load-adaptive wastewater valorization and reuse in industries with highly polluted effluents	wastewater, desalination, energy recovery, digital framework, industrial demonstration
CIRCECO-WATER4ALL-125	LiveWater	Water for life, not water changing lives: Live Water instead of sufficiently clean water	microfluidics, computational designed proteins, sustainable water, hormones

CIRCECO-WATER4ALL-131	WACITEX	Water Circularity in theTextile value chain	water circularity, resource recovery and valorization, textile sector, laundry sector, water footprint assessment
CIRCECO-WATER4ALL-132	EPHIC	Electrochemically assisted Phosphorus and Humics recovery via Ion exChange	phosphorus recovery, ion exchange (IEX), wastewater treatment, humic acid recovery, zero-liquid discharge
CIRCECO-WATER4ALL-154	GLOBALWATER	Toward circular urban water economies - Assessing the Global Scaling Trajectories of Four Innovative Water Reuse Solutions	water reuse, circular economy, global innovation system, capacity building, strategy support tools
CIRCECO-WATER4ALL-159	Biofloc4AD	Recovering Nitrogen and Phosphorus from liquid digestate through biofloc consortia and their valorization as biofertilizers and biostimulants	Anaerobic digesion; nutrient recovery; biofertilizers; biostimulants; circular bioeconomy
CIRCECO-WATER4ALL-167	Red-SuN	Sustainable nitrogen management under the revised directive on urban wastewater treatment	Nitrogen, recovery, removal, urban wastewater treatment directive, multicriteria evaluation
CIRCECO-WATER4ALL-169	CALM	A Circular Approach: Leveraging water treatment byproducts to Mitigate eutrophication in surface waters	Reuse, eutrophication management, drinking water, circularity, climate
CIRCECO-WATER4ALL-178	MAINSTREAM	Upgrading water Management in the Industry by Sustainable monitoring, Treatment, and supportive governance Mechanisms	Sustainable water reuse, Sensors, Industrial wastewater treatment, Technological advances, Circular economy policy
CIRCECO-WATER4ALL-183	RecAPIs	Recovery of valuable active ingredients from pharmaceutical industry wastewaters in sub-Saharan Africa: Circularity, Safety and Revenue	pharmaceuticals, toxicity, recovery, circular economy, 3D printing
CIRCECO-WATER4ALL-189	AquiCirc	Managed Aquifer Recharge for a Circular Water Future	Groundwater reuse, nature-based solutions, contaminants of emerging concern, managed aquifer recharge, numerical modelling
CIRCECO-WATER4ALL-197	NuPCycle	Breathing new life into biological N, P and C recovery from wastewater	upcycling, nutrients recovery, biofertilizers, bioprocesses, wastewater
CIRCECO-WATER4ALL-213	RENEW	Resource recovery of the future: water reuse for new bioplastics with tunable lifespan	Water reuse, Bioplastics, PHA, Cyanobacteria, Circular economy
CIRCECO-WATER4ALL-234	ANTICIPATE	A fast and responsive artificial intelligence based approach for real-time prediction of water quality destined for reuse	water circularity, AI-tool, microbial pollution, water quality, real-time monitoring
CIRCECO-WATER4ALL-235	RESET	Valorisation of non-conventional water resources in urban and peri-urban context	wastewater reuse; resources recovery; nature based solutions; life cycle assessment; water supply networks
CIRCECO-WATER4ALL-241	SAFE-WATER	Systemic Approaches for Enhancing WATER Security in High-Stress Regions	Water stress, Water recycling and reuse, Circular water economy, Water-Energy-Food-Biodiversity Nexus, Stakeholder Co-creation
CIRCECO-WATER4ALL-242	HydroShift	Shifting mining waters from burden to resource	Mining water; Acid mine drainage; Metal recovery

CIRCECO-WATER4ALL-247	WATERWiSE	Advances in Wastewater Treatment for Sustainable Nutrient and Energy Recovery within a Circular Economy	liquid sidestream digestate; nutrient valorisation; phytoremediation; life cycle assessment; biogas
CIRCECO-WATER4ALL-250	CIRC-WWTP	Increasing circularity of urban WWTP through valorisation of sewage sludge and advanced polishing of treated effluent	WWTPs, Wastewater Reuse, Sewage Sludge, Valorisation
CIRCECO-WATER4ALL-261	WaterRefineries	On-demand reclaimed water production boosted by added-value byproducts throughout smart water circularity approach	on-demand production; energy recovery; membranes; anaerobic digestion; biowaste
CIRCECO-WATER4ALL-271	IMAGINATION	acId Mine drAinaGe remedIation usiNg bAuxiTe Inorganic pOlymer sorbeNts	Industrial waste upcycling; wastewater treatment; circular economy; sustainability; zero-waste approach
CIRCECO-WATER4ALL-273	ACE-WATER	CombiSonoPlasma electrolysis for simultaneous organic pollutants degradation, H2 production, desalination, and CRM recovery from wastewater	organic pollutants, plasma electrolysis, hydrogen production, recovery of critical raw materials, desalination
CIRCECO-WATER4ALL-274	AWARE	A Water Resource sustainability method	Life Cycle Sustainability Assessment; water resource recovery and reuse; Life Cycle Assessment; Life Cycle Costing; Social Life Cycle Assessment
CIRCECO-WATER4ALL-275	OPERA	Oxygenic photo and granule-based systems for enhanced resource upcycling, environmental remediation and sustainability in wastewater management	Granular sludge, microalgae-bacteria consortia, oxygenic photogranules, photobioreactors, resource recovery
CIRCECO-WATER4ALL-277	AQUAWISE	Advanced Pollutant Tracking and Resource Circularity in Water Systems	UVs, AI, circular economy, sustainable water management, resource recovery
CIRCECO-WATER4ALL-279	WAVE	Microbial-based bioprocesses towards dairy WAstewater reuse and conVErsion into new bioplastics	dairy wastewater, short-chain fatty acids, halotolerant yeast, landscaping, biomaterials
CIRCECO-WATER4ALL-283	CEPHAWA	PHA-cellulose composites with simultaneous water recovery to increase cellulose-processing circularity	Bio-based materials; PHA-cellulose composites; Bioprocess development; Water reuse; Industrial wastewater valorization
CIRCECO-WATER4ALL-287	AQUAEra	Turning Urban Wastewater into Clean Water and Renewable Energy in an Era of Increasing Water Stress	Wastewater Reuse; Renewable energy; Oscillatory Flow Reactor; Process Optimisation; Toxicity Evaluation
CIRCECO-WATER4ALL-290	eLitre	Electrochemical recovery of nitrogen vectors from wastewater	Electrocatalysis; Nitrate electroreduction; Water electrolysis; Photobio reactors; Biopolymers; Water monitoring
CIRCECO-WATER4ALL-293	GreenWaterTech-2	Green Remediation Technologies to Remove Synthetic Organofluorine Chemical Compounds from Water	Compounds of emerging concern, PFAS, Water treatment technologies, Advanced oxidation processes, Nanoadsorbents
CIRCECO-WATER4ALL-297	CEWAT4Industry	Circular economy using sustainable operations, value recovery and digitization for industrial water feeds	Water recovery, Circular Economy, Metal recovery, Digitalization, Pilot plant
CIRCECO-WATER4ALL-301	REUSE	Recovery of addEd valUe compoundS from coffee and olive oil wastewatErs	coffee, olive oil, porphyrins, MOFs, zeolite

CIRCECO-WATER4ALL-315	AMD4ALL	Acid Mine Drainage for Critical Raw Materials	Acid Mine Drainage (AMD); Rare Earth Elements (REE); Water Treatment Advanced Materials; Waste Valorization
CIRCECO-WATER4ALL-317	RAPID	Harnessing the power of resins, photocatalysts, and AI to transform wastewater reuse technologies to achieve ZLD in the textile manufacturing industry	water reuse, textile wastewater, photocatalysts, AI, resins
CIRCECO-WATER4ALL-321	ReWAdd	Resource recovery from wastewater based on photo-bio-electrochemical and membrane processes with minimal chemical addition to obtain added value goods	nutrient recovery; membrane processes; bipolar electrodialysis; micropollutant removal; single cell protein
CIRCECO-WATER4ALL-333	CURE - NbS	Circular water solutions for Urban ResiliencE with Nature Based Solutions	Nature-based Solutions, Blue-Green Systems, Water Circularity, Stakeholder engagement, Urban Planning
CIRCECO-WATER4ALL-340	AQUA-CLEAR	Advanced Cavitation for PFAS Treatment and Circular Water Management	Green Processes; PFAS Removal; Cavitation; Hydrodynamic Cavitation Reactor; Wastewater Treatment
CIRCECO-WATER4ALL-351	OXADIPR	Combining advanced oxidation processes with adsorption to recycle water for indirect potable reuse	indirect potable reuse; advanced oxidation processes; adsorption; water recycle
CIRCECO-WATER4ALL-359	WAREGO	Enhancing Water Reuse Governance in Drought-Prone Regions: An Innovative Framework for Multidimensional Impact	Circular economy; Community engagement; Water reuse; Digitalisation; Cross-sectoral collaboration
CIRCECO-WATER4ALL-363	CIRWA	Enhancing Reclaimed Water Use with Circular and Integrated Governance Approaches	Reclaimed water; Integrated water management; Water governance; Circularity indicators; Systems thinking
CIRCECO-WATER4ALL-365	ReLearn	Return-to-Learn: Leveraging innovation journeys to accelerate circular water solutions	Circular water management; Source separation sanitation technologies; Resource recovery; Water reuse; Sustainability
CIRCECO-WATER4ALL-368	CMDR-Water	Continuous Monitoring, Detection, and Recovery for Water Circularity and Sustainable Resource Use	AI, data gaps, water circularity in industries, data fusion, bioenergy
CIRCECO-WATER4ALL-380	AQUAproof	Closing water and raw materials cycles in industrial and municipal sector through sustainable Zero Liquid Discharge (ZLD) systems	circular economy, water reuse, resource recovery, valorization of secondary raw materials, Zero Liquid Discharge Systems (ZLD)