

Event:

ENERGY in BUILDINGS – Northern Hellas 2025


Date:

Saturday February 22, 2025

Place:

Thessaloniki, Macedonia - Hellas



#	George Efthimeros Chemical Engineer, PhD Un. Of Patras	
Title:	WWTP Techs IKE, Collaborating Consultant	
email:	gefthimeros@gmail.com	•
Presentation title:	Recovery and Re-Use of water from wastewater treatment	
<p>The presentation focuses on the treatment of wastewater and/or municipal sewage aiming at the recovery of water that can be re-used. The presentation starts with a short description of the Greek legislation for water re-use, as well as sewage mining, which is a technology for recovering wastewater from sewage not for environmental purposes, but for re-use instead. The presentation completes by presenting technologies and systems for water recovery / re-use from wastewater.</p>		
Short CV GREEK:	<p>Δρ. Χημικής Μηχανικής του Παν. Πατρών, ο κος. Ευθύμερος ασχολείται στο σχεδιασμό, την κατασκευή και τη λειτουργία μονάδων επεξεργασίας υγρών αποβλήτων και λυμάτων από το 2005. Με εκτεταμένη εμπειρία σε όλες τις τεχνολογίες επεξεργασίας από τον τομέα πετρελαίου/αερίου μέχρι βιομηχανίες του κλάδου τροφίμων και ποτών. Έχει συμμετάσχει σε διάφορα στάδια σε πάνω από 200 μεγάλα ή μικρότερα έργα επεξεργασίας αποβλήτων.</p>	
Short CV EN:	<p>PhD in Chemical Engineering at Un. Of Patras, Mr. Efthimeros is involved in the design, construction, operation of wastewater treatment plants, since 2005.</p> <p>Experienced in all technologies of wastewater treatment ranging from the oil & gas industry up to the food & beverage sector.</p> <p>Has participated in various stages of more than 200 large or smaller projects.</p>	

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CV:

Born in Athens on 1974, attended the Chemical Engineering Polytechnical School of University of Patras. On 1998 he graduated and started MSc/PhD studies at the same department, in the energy / process sector of studies. Awarded MSc and PhD on 2010, while he had already begun cooperation with a Patras' based company specializing in the study, construction and turn-key commissioning of wastewater treatment plants (2005).

Since then, he has 20 years of experience in the field, participating in various stages of wastewater treatment projects, both for various industrial sectors, as well as in the municipal sector.

Business activity:

2005-2020: Design Engineer, Project Manager and Supervisor, VP of the board (SIRMET S.A.)

2020-Today: Owner of GNViro E.E. – a company providing consulting services in environmental projects and studies.

2020-Today: Project Engineer and consultant in waste water treatment plants (EuroConstruction Company SA)

2020-Today: Consultant in WWTP studies (WWTP Techs IKE)

The range of technologies for wastewater treatment in Mr. Efthimeros' portfolio range from simple physico-chemical treatment plants for the metal industry (flocculation-coagulation-sedimentation), up to combined anaerobic-aerobic biological treatment plant. Has worked with all variations of the activated sludge method like CAS, MBBR, MBR, IFAS, aiming not only at the safe environmental disposal of the treated effluents, but also in their re-use as use water for various purposes (irrigation, toilet flush water, etc.).