

ANNOUNCING PROMINENT PODCAST GUEST, DR. RAKESH GOVIND

Professor, Chemical & Materials Engineering Department, University of Cincinnati



The Future is Decentralized

Podcast Guest, [Dr. Rakesh Govind](#), Professor at the Chemical & Materials Engineering Department at the University of Cincinnati, shares in his upcoming interview that wastewater treatment must be decentralized. According to Dr. Govind, the world has been using centralized wastewater treatment plants and sewer lines that take fresh groundwater and put it into rivers that always flow to an ocean thus turning fresh water into unusable salt water, resulting in a decline of the groundwater table on a worldwide scale. This trend is expected to cause many nations to run out of water in the next decade, leading to political instability and chaos. This is where decentralized systems come in. We must shift towards decentralized water treatment systems for industries and individual households.

The Ideal Wastewater System

Dr. Govind has developed an ideal wastewater system design, based on scientific principles, which is decentralized, the size of a small box, located behind the house, and more advanced than a septic tank. This system purifies and disinfects water from contaminants and pharmaceuticals and forces the purified water back into the local groundwater table to ensure hydraulic conductivity. Furthermore, it is scalable, cost-effective, and can be customized to meet the specific needs of different communities. Dr. Govind explains that using such systems will help industries reuse water, thus reducing their net consumption and ensuring their existence in the long run.

Water is running out



Dr. Rakesh Govind warns “The freshwater is running out, it's not going to happen in 100 years, it's going to happen in the next decade. There is going to have a major upheaval for the people living on this planet, so the industries need to learn that lesson: there is a lot of wasted water being used right now and they need to conserve water. And by treating the water locally, industries can reuse the water, and that reduces the net consumption of water.” It's essential that we take action now to prevent this from happening. If we don't regenerate the groundwater table, then our grandchildren or great-grandchildren won't have water. According to Dr. Govind, the future of water treatment lies in decentralized systems that can provide clean water to smaller communities and households.

Don't miss this episode

This Scaling UP! H2O Podcast episode with Dr. Rakesh Govind will be available on **Friday, April 14th, 2023** at scalinguph2o.com/303. On the webpage, listeners will have the opportunity to learn more about the future of water treatment, the ideal wastewater system design, and the importance of conserving water to ensure a sustainable future. They can also receive a FREE download based on the information found in this episode.

About Scaling UP! H2O Podcast

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