



M-Cycle Industries



Title: **Renewable Innovative Green Affordable Water For All**

Brief: The Maisotsenko Cycle, M-CycleGen3 for Water distillation method and apparatus US Patent No 8,613,839 can reduce energy consumption 10 times and disrupt water and heat recovery industry

Content:

Vicious circle: Power production takes Water (2,600 L per 1 MWh), Industry takes Power (33% of total U.S. energy consumption), people need Water (300 L daily), Water production takes Power (5 kWh per 1 m³).

M-Cycle Value Proposition: Provide affordable 100% disruptive products for water industries & consumers, based on fundamental breakthrough in understanding and practical applications of thermodynamics: **10X Less Energy; 10X Less Cost; 10X Less Carbon Footprint!**

M-Cycle Corporation is founded in Denver, Colorado as R&D startup by Dr., Prof. Valeriy Maisotsenko who since early 1970's discovered practical application to utilize air as low-cost renewable source of energy (potential energy from latent heat) and created M-Cycle as singular omni-applicable solution.

M-Cycle addresses 7 of 17 UN Sustainable Development Goals directly (NN 2, 3, 6, 7, 11, 13) and indirectly (1, 10, 14, 15), including **goal N 6 Clean Water** – production of potable water from air, from sea (desalination) and from grey and black water (purification of sewage and storm water). The M-Cycle is a proven thermodynamic process, which captures energy from air, utilizing the psychrometric renewable energy available from the latent heat of water evaporating into the air. The M-Cycle uniquely **combines the thermodynamic processes of heat transfer and evaporative cooling** to enable product temperature **to approach the ambient dew point temperature**.

M-Cycle's **cooling capacity increases (not decreases!)** when the temperature (T) of the fluid (air or water) being cooled increases. These unique properties make the M-Cycle ideal for many evaporative cooling applications including wastewater recovery, where high T of incoming air or water transfers for additional cooling capacity and water treatment productivity.

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