

# M-Cycle Industries

Renewable Innovative Green Affordable Water 4 All



## Vicious circle:

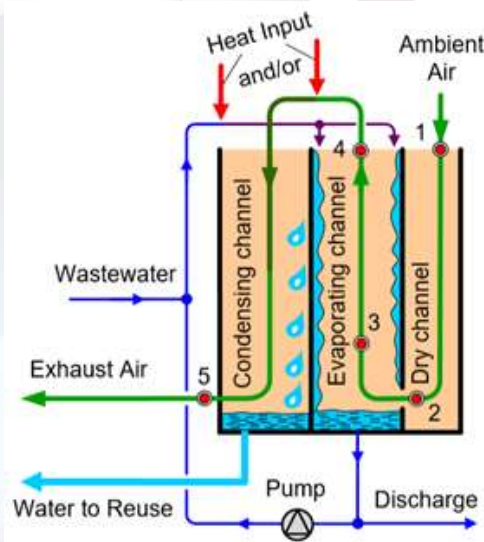
Power production takes Water (2,600 L per 1 MWh), Industry takes Power (33% of total U.S. energy consumption), people need Water (300 L daily), Water production takes Power (5 kWh per 1 m<sup>3</sup>)

## Value Proposition:

100% Affordability & Disruption  
Air and Water verticals  
UN SDGs #6 Clean Water  
10X Less Energy, Cost, Carbon

## M-Cycle:

thermodynamic process  
captures energy from air  
utilizes psychrometric energy  
recuperates the latent heat  
evaporates water  
combines heat transfer & evaporative cooling  
approaches dew point temperature.  
cooling capacity increases ! when the temperature increases



**Project:** Integrated Industrial Wastewater Reuse  
Via The Maisotsenko Cycle Heat Recovery Process

**Tech:** US Patent No 8,613,839  
“Water Distillation Method and Apparatus”

**Results:** in ( ) data for Reverses Osmosis  
Water recovery, % 90-95 (40-50)  
Concentrate discharge, % 1-5 (50-60)  
Electricity consumed, kWh/m<sup>3</sup> water 0.1-0.5 (1-5)  
Operating cost, \$/m<sup>3</sup> 0.24 (0.77)

Mcyclecorp.com  
Mcyclecooling.com