

See how...

KATALYST-LIGHT[®]

TECHNOLOGY

HELPS TO REDUCE INCREASING DEMAND OF A THIRSTY WORLD

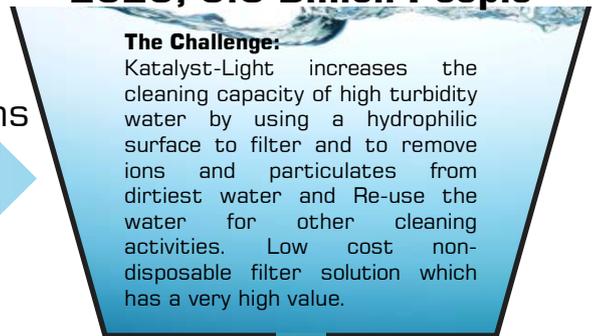
2015, 7.5 Billion People



SOLVES
 one of the world's
 most important Problems



2020, 8.5 Billion People



The Challenge:

Katalyst-Light increases the cleaning capacity of high turbidity water by using a hydrophilic surface to filter and to remove ions and particulates from dirtiest water and Re-use the water for other cleaning activities. Low cost non-disposable filter solution which has a very high value.

SOLVES
 Problems that can
 impact Humankind



**It's always
 increasing**

30% More Water

Our Philosophy:

Understanding Clean Water and Polluted water even at nano-scale is a matter of growing scientific and technological interest of **Watch-Water[®]**. Here we prove that the bulk of water can be cleaned if the confining **Surfaces** are **Hydrophilic**. Water cleaning process is greatly decreased when the **Surfaces** are **Hydrophobic**, while it tends not to absorb water and this rule is opposite for surface cleaning process.

- Example: Sand surface is Hydrophobic
- See detailed description of Katalyst-Light[®]

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**Green
 Technology**



INCREASE OF WATER RE-USE

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It's True: Every liquid will be affected by touching Any Surface!

- "Surface Chemistry"

Residential and Commercial

The Point of Entry (POE), for a whole house, building, hotel, hospital or village, wherever all water enters for consumption. **Katalyst-Light®** Systems are not expensive and are treating a very large volume of water. They are perfect when the water has problems with Turbidity, Iron, Manganese, Arsenic, Radionuclide and Hydrogen sulfide (and many other ions) from Surface Water, Ground Water or City Water. **Katalyst-Light®** adjust:

pH levels which is very healthy to drink. The smallest KL (KL 0835-Mn) device typically treats about 0.567 m³/h (150 gpm) depending on consumption of water.

Check For Water Analysis : Click here

Note: Only one Katalyst-Light® system cannot take care of all kinds of water quality problems and the "Catalytic Carbon" as a combination methods may be needed.



Katalyst-Water is always Fresh

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2

Water? Fresh or Plastic?

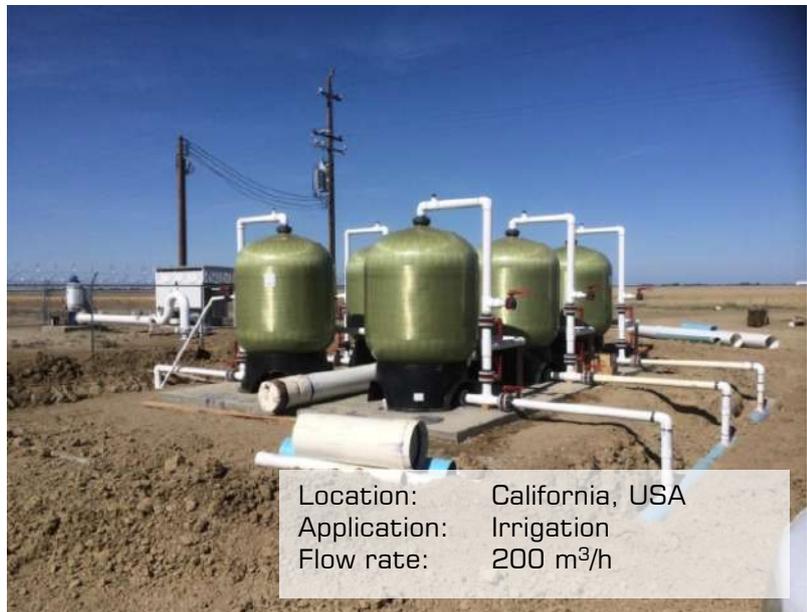
Water made by **Katalyst-Light®** is the same regardless of whether the water in the bottle is made of plastic. Water in glass or plastic does make a significant difference. Both of the surfaces have nanoscopic channels. Nanoscopic channels can make water contaminated with nano-bacteria – understand a biological process that water involves surfaces to perform impurities.

“These differences can be explained by understanding how water behaves differently on different surfaces.”



Pilot Unit

Katalyst-Light and Catalytic Carbon in series configuration
Flow rate: 1 m³/h

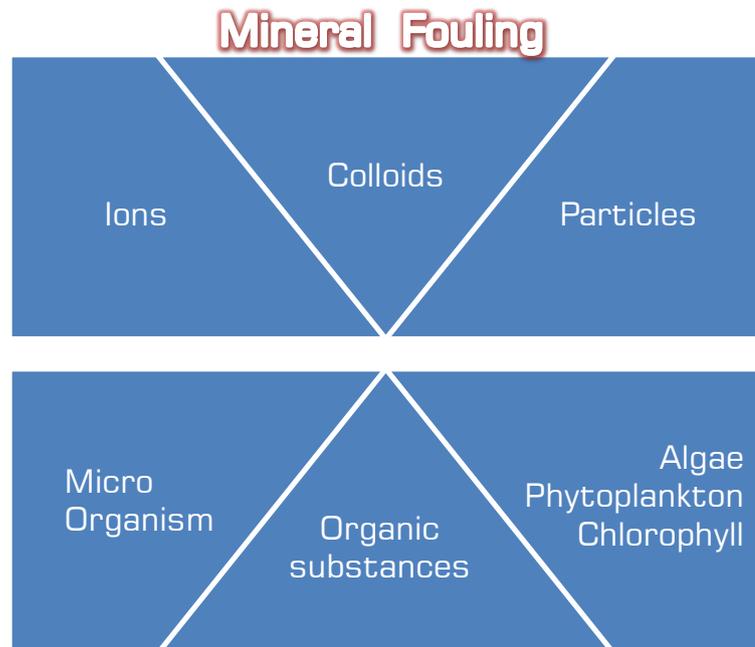


Location: California, USA
Application: Irrigation
Flow rate: 200 m³/h

The Surface Chemistry of Gamma Manganese dioxide

Introduction

All systems installed have shown that H^+ and OH^- are potential determining ions for the MnO_2 surface. One of the three major ways in which a contaminant, a particle may acquire a surface-is by Nucleation Chemical reaction at the particle surface. This involves hydrogen ion and is very much pH dependent, is typical of hydroxide (OH^-) and oxides (O) and is illustrated for Katalyst- MnO_2 -High Surface.



Organic and Biological Fouling

Challenge Two:

Katalyst-Light focused on new (Non-traditional Sand, Anthracite or low quality, one percent catalytic coating products) methods from removing Ions, Colloids, Particles, Organic substances from millions of gallons of water per day. **Katalyst-Light** removes impurities upto 2-3 microns at a substantially lower backwash than existing solutions so that the water can be reused for other purposes. Water is "CLEAN" at every point; before used, after used or after touching any surface. It solves all water dirty tensions.

Major problems

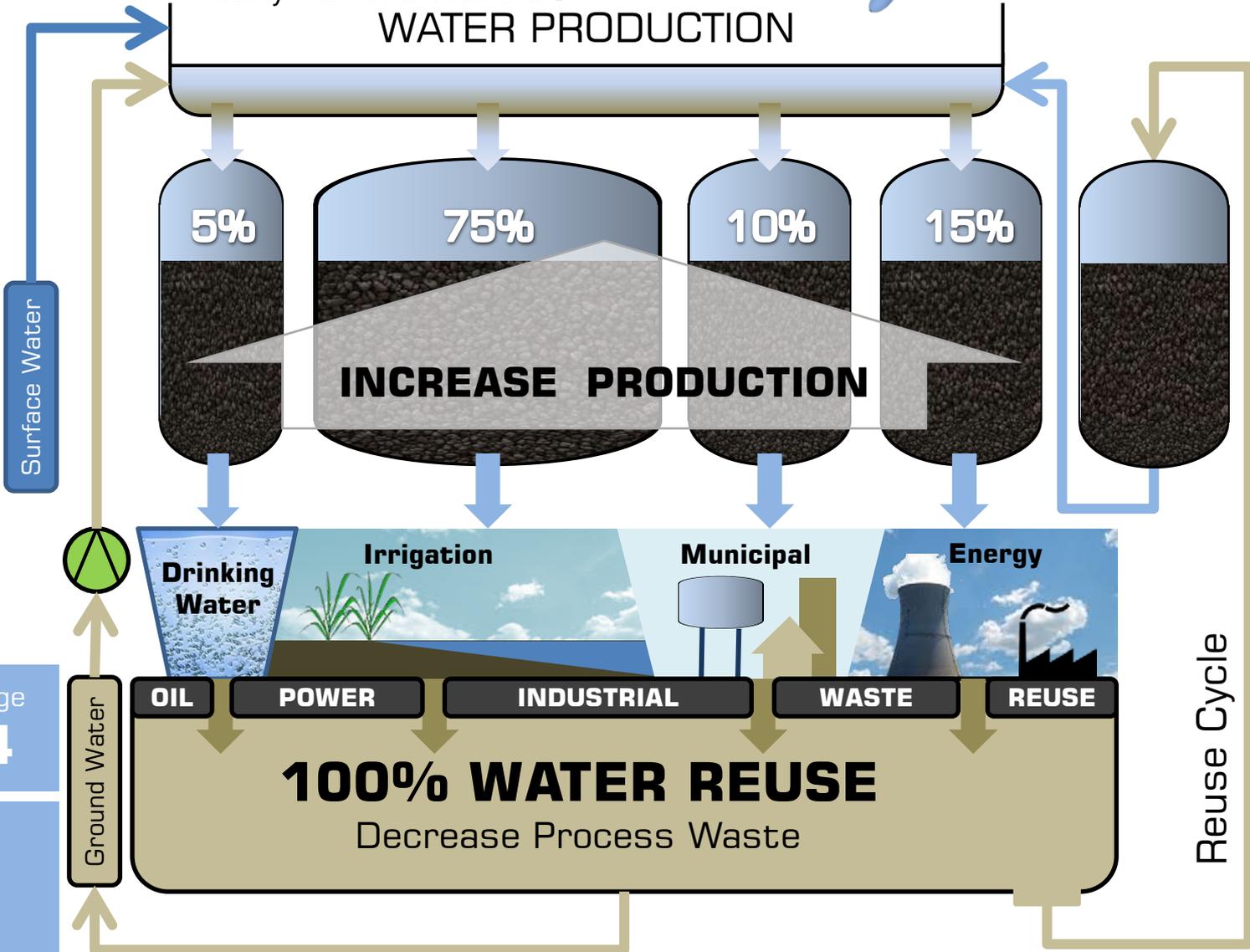
- Food and beverages
- Residential and commercial
- Industrial water and re-use
- Municipal and Membrane
- Oil Field Water
- Power Generation
- Wastewater & Reuse

MORE THAN CLEAN WATER



Katalyst Light will Account for
 Nearly Half the World's

WATER PRODUCTION



Watch[®] Filtration medias offer water manufacturers the ability to produce water for drinking, Food and Beverage at lowest costs. Lower the cost more is the Food!

Manufactured by:



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