



NANO BUBBLE Applications

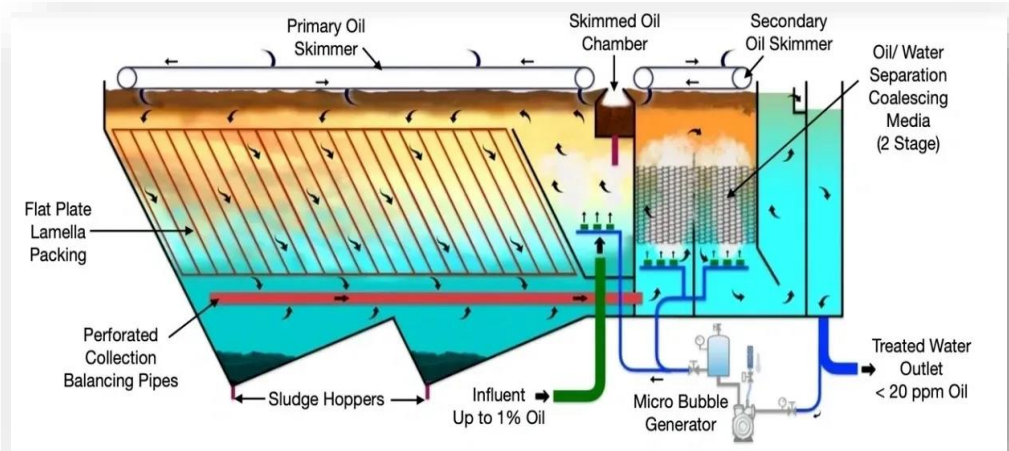


Dissolved Air Flotation (DAF)

Flotation is a century-old water treatment process in which gas is introduced to a pressurized liquid, generating a buoyant force and resulting in flotation of suspended matter such as fats, oils, greases and suspended solids.

Nanobubble Technology in DAF TREATMENT Result in...

- ✓ **Better Collision**
- ✓ **Rise Rate Flexibility**
- ✓ **Improved Chemical Efficiency... and Much More !**



NEEDS ANALYSIS & DESIGN DEVELOPMENT

- Reformer Design,
- Fueling Design,
- Fuel Storage and Delivery Systems,
- Heating System Design,
- Fuel Cell Systems,
- Engines Systems,
- Safety System Design,
- Monitoring Design,
- Operation and Maintenance Planning.

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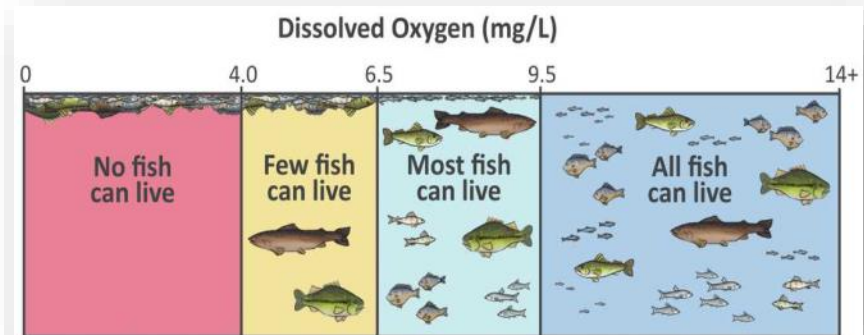
LAKES & PONDS REMEDIATION

Maintaining adequate dissolved Oxygen (DO) levels in water is a critical component to sustaining healthy ecosystems in lakes and ponds.

Low DO levels and the presence of nutrients such as Nitrogen and phosphorus can lead to algae blooms in the epilimnion that further deplete DO concentrations and degrade water quality. Sustaining DO levels across the entire water column, including the hypolimnion, helps mitigate algae growth by reducing the rate of nutrient recycling into the water from the sediment layer.

Nanobubble Technology in LAKES & PONDS Result in...

- ✓ **Algae Control**
- ✓ **Increase Water Quality... and Much More !**



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WASTE WATER TREATMENT

Aeration is used in water and wastewater treatment processes to deliver oxygen to microorganisms responsible for the biological oxidation of carbonaceous material and ammonia.

Aerobic processes are used to degrade Biochemical Oxygen demand (BOD), Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), and ammonia from water.

One of the fundamental control parameters in aerobic processes is dissolved oxygen (DO).

Nanobubble Technology in WASTE WATER Result in...

- ✓ **Membrane Bioreactors (MBR)**
- ✓ **Odour Control... and Much More !**



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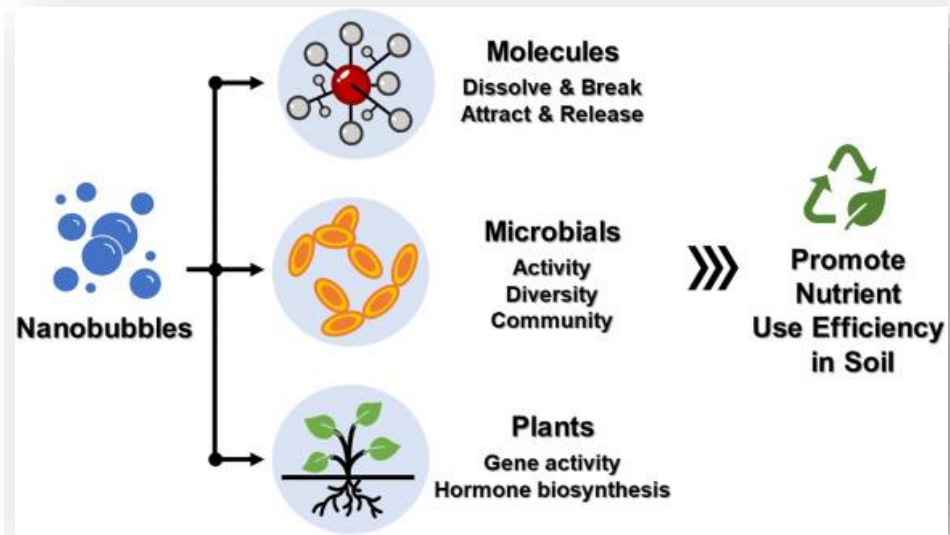
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HORTICULTURE

Plants require Oxygen to grow. Maintaining adequate Dissolved Oxygen (DO) levels in water is the easiest way to increase a plant's health. Elevated DO levels reduce disease and enhance root mass, which increases nutrient uptake and conversion efficiency.

Nanobubble Technology in HORTICULTURE Result in...

- ✓ **Increased Plantation Yield**
- ✓ **Healthier Roots**
- ✓ **Enhanced Growth Rates... and Much More !**



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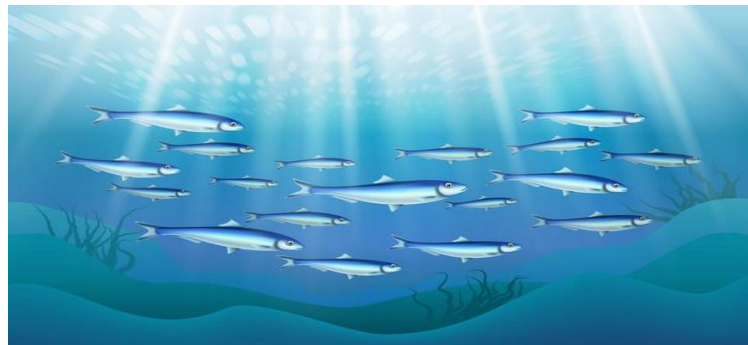
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AQUACULTURE

Over half of the fish and shellfish directly consumed by humans is produced through aquaculture, also known as fish farming. As fish farmers look to produce more fish to keep up with global demand, they run into severe problems with a lack of dissolved oxygen (DO) in the water. Fish and shellfish need Oxygen to breathe. When fish populations are tightly packed, a shortage of DO is inevitable because the fish and shellfish consume more oxygen from the water. Additionally, waste byproduct accumulates on the floor of the fish farm, damaging or eliminating bottom-dwelling plants and animals.

Nanobubble Technology in AQUACULTURE Result in...

- ✓ **Stocking Density**
- ✓ **Disease Prevention**
- ✓ **Efficient Oxygen Transfer... and Much More !**



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CLEANING PROCESSES

Spoilage and contamination of food wastes millions of dollars every year. Pathogens, viruses, and chemical residues can pose major health risks to consumers. These health risks have given rise to a sophisticated food safety industry that focuses on the handling, preparation, and storage of food in ways that prevent spoilage and food-borne illness caused by bacteria, viruses, mold, and fungus. Common treatment methods include costly chemicals and pesticides that are not suitable for human consumption.

Nanobubble Technology in CLEANING PROCESSES Result in...

- ✓ **Food Sanitization**
- ✓ **pH Adjustment**
- ✓ **Anti-Contamination**
- ✓ **Pesticide Removal... and Much More !**



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OIL & GAS

Oil extraction and processing methods can vary greatly by region or application, and oil companies are constantly seeking ways to improve any process to maximize efficiency. The **Nanobubble** technology has proven to increase efficiency in oil-water separation and Hydrogen sulphide (H₂S) reduction. By harnessing the unique properties of **Nanobubbles**, Moleaer is making oil companies more efficient and improving their bottom line.

Nanobubble Technology in OIL & GAS PLANTS Result in...

- ✓ **Oil Water Separation**
- ✓ **H₂S (Hydrogen Sulphide) Removal... and Much More !**



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MINING

A number of Mining processes are highly dependent of the use of various gases. In wastewater, tailing ponds or recycling water from acid mine drainage often require simple aeration to maintain proper dissolved Oxygen (DO) to allow Mines to reuse water or meet discharge requirements. In separation processes, such as froth flotation or heap leaching, Mines rely on air or Oxygen to float matter or enable the chemical separation of metals such as copper or gold from ore. Regardless of the application, the **Nanobubble** generator brings a new form of gas-to-liquid injection to the mining industry that is more efficient than previous methods.

Nanobubble Technology in MINING INDUSTRIES Result in...

- ✓ **Heap Leaching**
- ✓ **Froth Flotation... and Much More !**



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