

## **Venture Overview**

NanoWaterTech Inc. offers innovative nanotechnology-based solutions for industrial water treatment.

## CHALLENGES IN OIL & GAS

Traditional filtration and chemical treatment methods require high concentrations of raw material, leading to high operational costs and lower process efficiency.

## The challenges the industry is currently facing:

- Increased regulatory pressure to reduce emissions.
- The need to minimize water consumption.
- Maximizing asset utilization.
- Reducing overall operation costs.

## **OUR SOLUTIONS**

NanoWaterTech (NWT) is an innovative energy transition company that implements groundbreaking, easy-to-deploy, and cost-effective technology for industrial water treatment. Coupled with our technical expertise, we optimally service customers resulting in process efficiency improvements, reductions in greenhouse gas emissions, and operational cost savings.

## **BENEFITS & EASE OF ADOPTION**



Industry leading expertise with the ability to service and support operations for optimal integration results. Holistic Approach resulting in



Industry-standard designs coupled with our proprietary blend of patented nanomaterials minimize integration risks and process changes.



Improved Efficiency

6X operational cost reduction directly impacting chemical savings, asset performance, and operating expenses.



5% reduction in GHG emission associated with natural gas steam generation.

Improved equipment and process efficiency resulting in increased uptime by up to 3%.

## **PRODUCT OVERVIEW**

NanoFilters



## **INDUSTRY USE CASES**



## Modified walnut shell filters to increase removal in upwards of 30% of Total Organic Carbon, Silica, and Hardness from the produced water.

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## **NanoFlocculants**

Accelerated settling and dewatering of tailings by 2X with 450 ppm injection of NanoFlocculant compared to 3000 ppm of commercial alternative. Our product removes the use of gypsum for settling during tailings treatment.



#### NanoSorbcats

Nanoparticles modified sorbent and catalyst for treatment and removal of stable compounds in water explicitly designed for Oil spill removal.

NanoWaterTech Inc.

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## Hydraulic Fracturing

- Reduced freshwater demand by 30%
- Increased recyclability by 50%
- Reduced operational cost for water management by 3X

## **Steam Assisted Gravity Drainage**

- Total Organic Carbon reduction of 40%
- Silica reduction of 35%
- Reduced total hardness in produced water by 35%

## Tailing ponds (Third Party Study)

- Increased suspended particle settling by 59%.
- Increased floc density by 35%
- 5X reduction in turbidity of water released



