



Automatic Filter of Oil Purification From Water with Negative Breaking Walls

Oil Industry



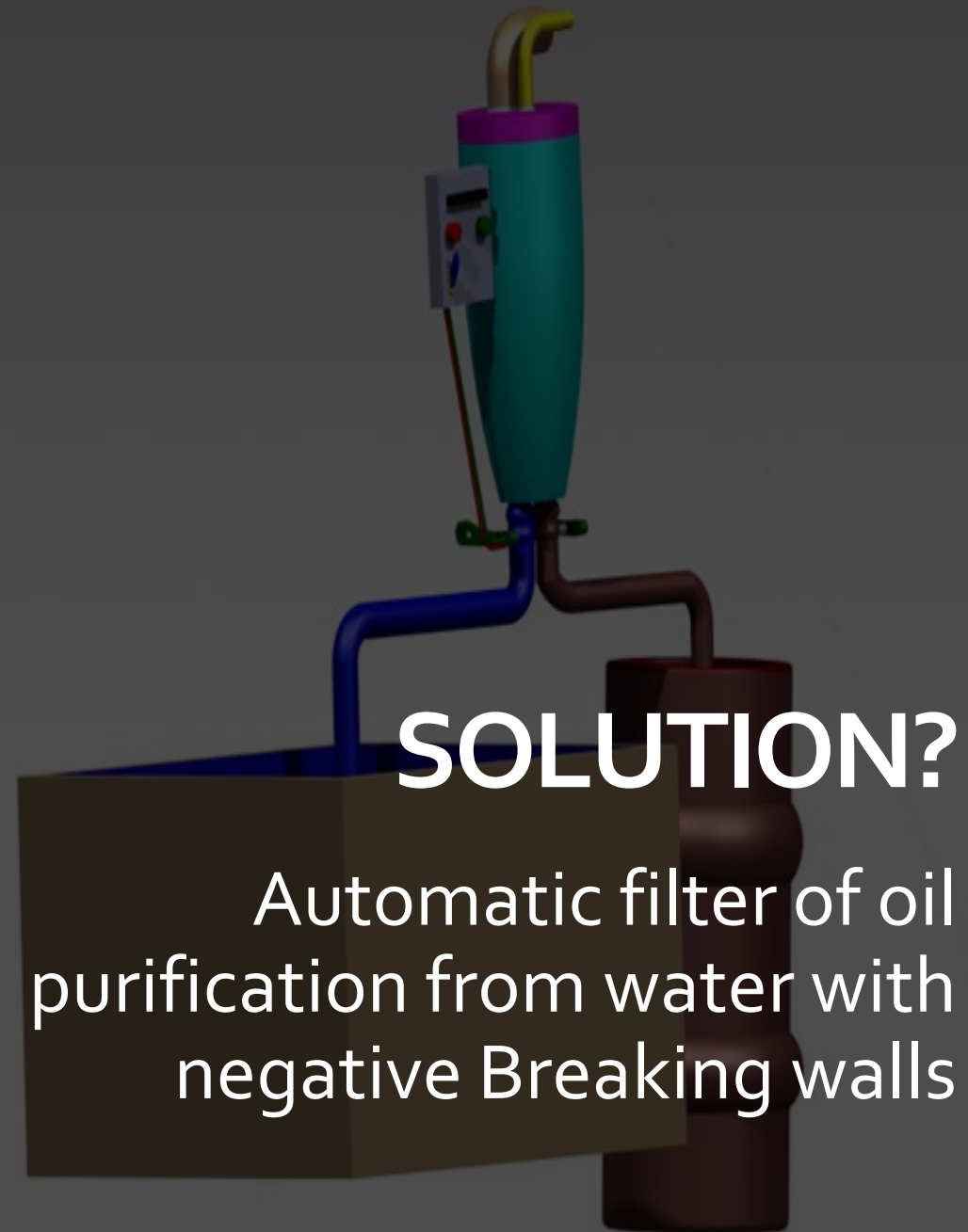
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A study by the British Columbia University Ocean and Fisheries Center found that ocean-going oil tanker leaks and pollution reaching the region's northern shores cost \$ 189 million directly and about \$ 2.4 billion needed to clean it up. However, with the increase in the size of the leaked oil slick, direct and cleaning costs will increase to \$ 308 billion and \$ 9.4 billion, respectively. Currently, the systems that perform this operation are mostly centrifuges, which are very expensive and cost very high to install and repair. So they cannot be generalized in the market.

WHAT IS PROBLEM WE ARE FOCUSING ON?



Estimates of clearing a medium or large oil slick in seawater cost \$ 2.4 billion to \$ 9.4 billion, respectively. PoilWater system is the best option for purifying oil from water, which has 2 outlet and inlet ducts. This product is made in such a way that it has negative return edges, and inside this product is filled with adsorbent plant nanoparticles. An oil pollution sensor is installed inside this product. At the first inlet, the combined water and oil enter the system, and after the initial treatment, direct the water to the water tank separately. If the oil contamination sensor at the water outlet detects that oil is still present in the water, it repeats the purification cycle to fully purify the oil from the water. After separation, water and oil are directed to two separate tanks.



SOLUTION?

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PoilWater

GREEN Nano filter material



1. Coarse-grained reed bed wood particles (which are abundant in Canada).



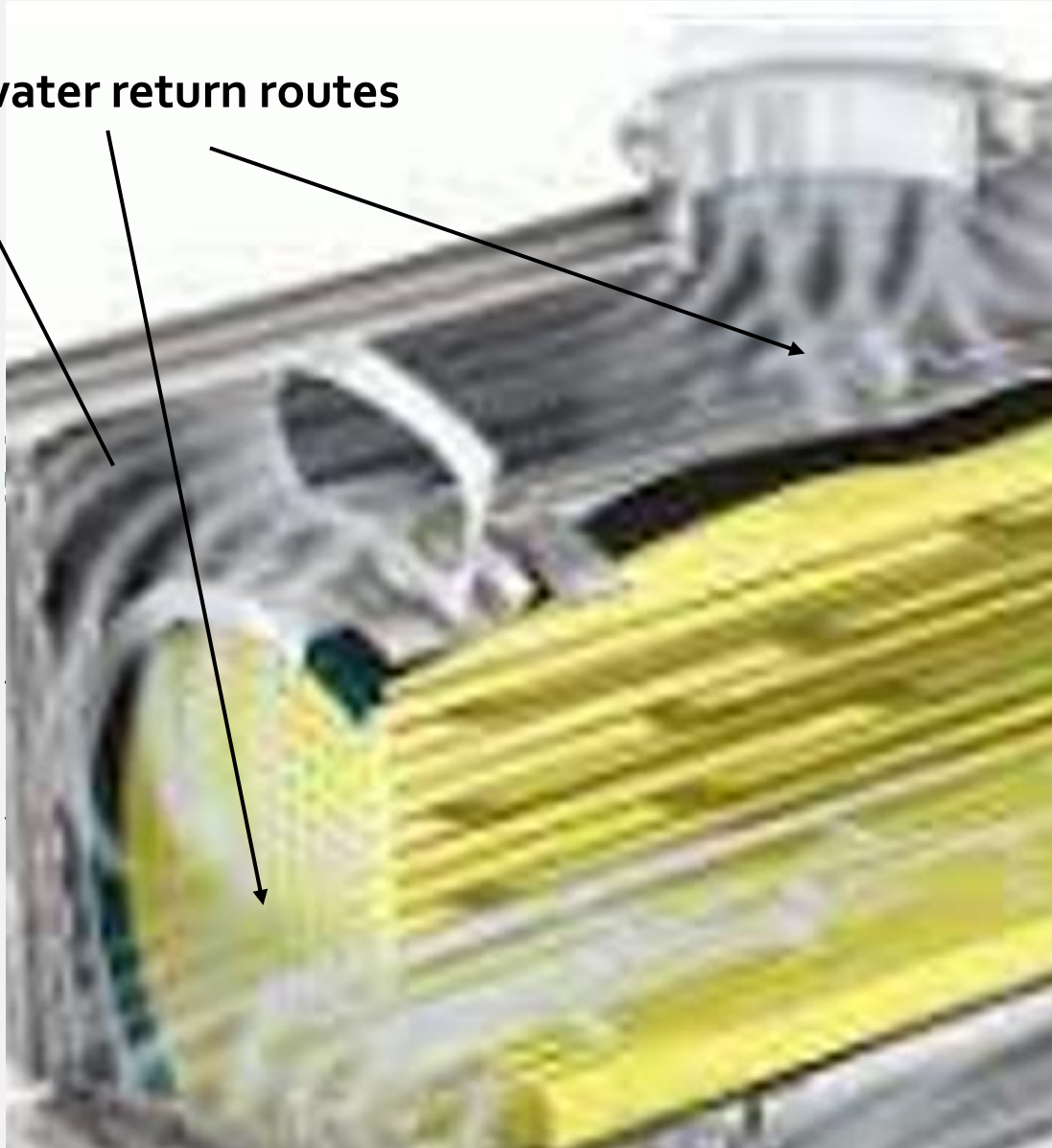
2. Coarse grains of wood, wheat, barley, rice, corn.



3. Metal mesh body.

A layer of coarse reed bed material is placed on the floor, and then a layer of coarse grain Wheat, barley, rice, corn is placed, then the nanoparticle materials of Wheat, barley, rice, corn are placed and again the same materials, respectively. They are placed up to the top, and in the end, they are produced in the metal mesh No. 3 with a press and are placed in the body of the main system.

Oil and water return routes



The breakdown walls inside the system return water and oil to the filter remover 3 times.

When the water is purified from the oil, an outlet opens to the oil tank, and at the same time as the oil is drained, the detergent spray along with the wind pressure washes the oil from the filter and directs it to the oil tank.

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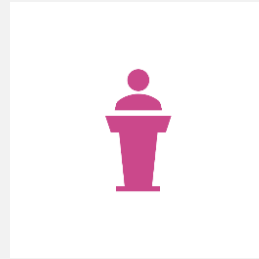


WHY CUSTOMERS SHOULD BUY YOUR PRODUCT?

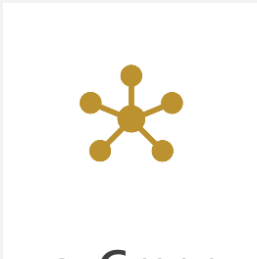
1. 95% oil purification from water.
2. Low cost of this system.
3. Automatic control and washing system.
4. It is portable and easy to assemble.
5. Installation on any oil and water collecting equipment.
6. High operating speed.



1. The degree of negative breaking wall to return water-oil several times from the filter floor to the adsorbent .



2. Automatic washing and control system and water and oil outlet cutter.



3. Green nanoadsorbents that are placed inside the system.



WHAT IS INNOVATIVE POINT OF YOUR PRODUCT?

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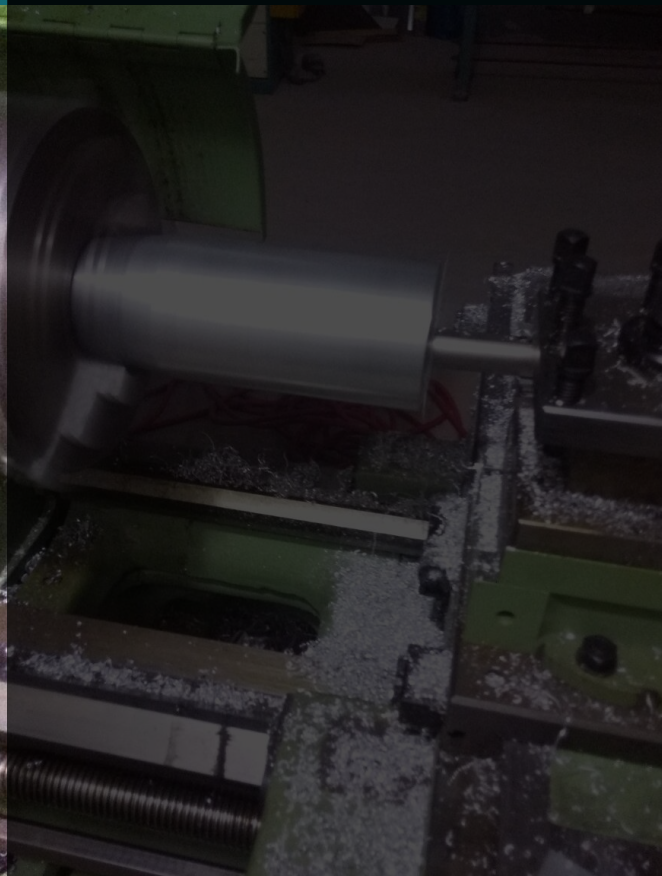
<https://finance.yahoo.com/news/global-oil-cleaning-market-2020-143900561.html>

MARKET SIZE

According to the report, global demand for oil cleaning market is expected to grow at a CAGR of around 5.6% between 2020 and 2026.

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PRODUCTION LINE

Team



Elham Mousavizadeh

Chief Executive Manager, and Head of R&D department

Elham is a Metallurgy Engineer with more than twenty years experience in Oil industry and its related systems. Her knowledge in oil industry and system, and experience in team management leads her to have this position in PoilWater Company.



Behnaz Setayesh

Director of Business Development

Behnaz has Master of Business Administration degree with more than ten years experience in industry management and expanding business, especially oil and gas system related business.



Hamideh Tamadi

Chief Financial Officer

Hamideh is a master accountant with more than twenty years experience in financial management for big and startup companies. She has also worked with some startups about oil and gas infrastructure and systems.



Shirin Taheri

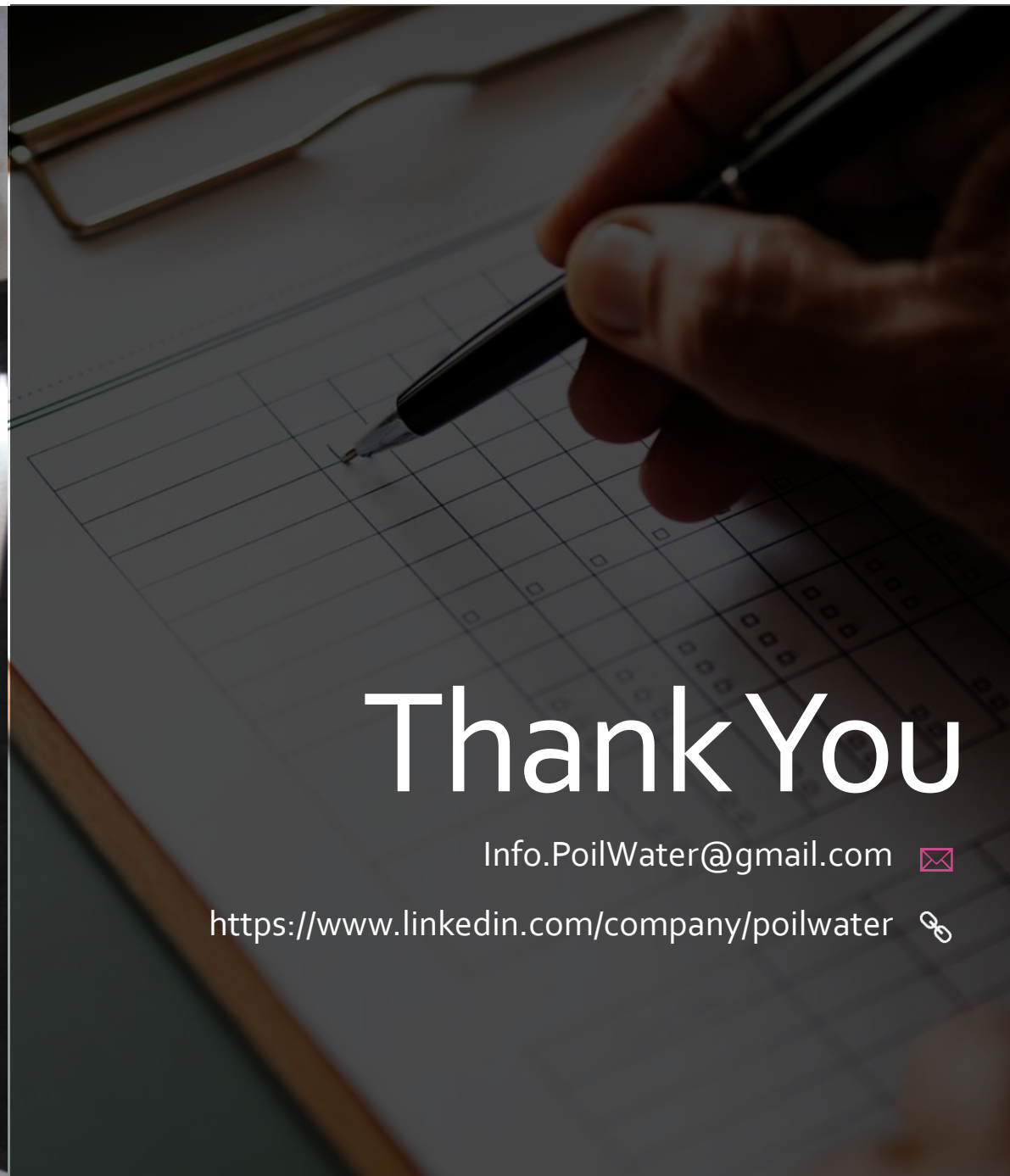
Director of Operation

Shirin has a master degree in Economics with more than twenty years in Market and economy research on different product base companies. She has also is familiar in operating and production line management of some startups.

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Thank You

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