Si Energy Sustainability
Delivering Responsible Energy Solutions

ENERGY SUSTAINABILITY INITIATIVE

Schroeder INDUSTRIES
Advanced Fluid Conditioning Solutions®

Energy Sustainability

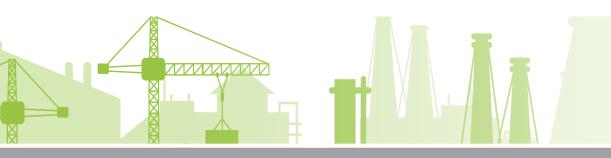**Delivering Responsible Energy Solutions**

What Is the Energy Sustainability Initiative?

Industrial carbon emissions account for approximately one quarter of total carbon emissions in the United States alone. Reducing these emissions is a necessary, yet complicated process that requires effort and innovation from all corners of industry, with every sector having a unique part to play.

The **Energy Sustainability Initiative** is Schroeder Industries' mission to provide fluid power filtration solutions that contribute to a cleaner world and help organizations reach their sustainability goals. **Here's how:**

- By supporting emerging clean energy technology, including electric and hydrogen gas powered systems, with optimized filtration solutions.

- By reducing wasted hydraulic oil and increasing the energy efficiency of hydraulic systems with advanced filtration and diagnostic solutions.

- By increasing diesel fuel efficiency and reducing carbon emissions through superior fuel filtration.

- By engineering innovative alternatives to current wasteful and inefficient filtration technology.

Try out Schroeder products to achieve your oil cleanliness goals, save money, and reduce your carbon footprint:

Equipment Rental Program

- Enjoy the benefits of Schroeder Industries' exceptional filtration equipment without a large capital investment.

- Superior filtration extends oil life and increases machine reliability and energy efficiency for a more sustainable operation.

Filtration Management as a Service (FMaaS)

- With this turnkey service, Schroeder Industries will plan, execute, and manage your filtration strategy and filtration equipment.

- Reduces carbon footprint by extending your oil life and eliminating the emissions associated with repeat oil recycling truck visits.

Filter Elements

Schroeder's latest E-Drive Media filter element features exceptionally low pressure drop, making it energy efficient and suitable for low energy consumption requirements and electrically-powered systems.

Hydraulic & Lube Filters

Together with our high-efficiency filter media, our filters are engineered to enhance system efficiency, increase oil longevity and even enable reservoir downsizing in certain cases. This contributes to a lighter and more efficient system overall, and reduces steel and oil usage.

Hydraulic Tank Accessories

Our signature, highly customizable TNK line is manufactured with highly recyclable HDPE for a lightweight, extremely durable reservoir solution. They require less energy to produce than a comparable steel tank, and the reduced weight contributes to overall system and energy efficiency.

Filter Systems & Diagnostics

Built for energy efficiency, our offline filter units offer superior fluid conditioning with lower energy usage. Systems integrated with smart IoT solutions can be automated to maintain target ISO codes and saturation levels, only operating as needed to further conserve energy and prolong fluid life.

Fuel Filtration

Proper diesel fuel filtration increases fuel efficiency and gas mileage, and reduces emissions by removing contaminants and enabling clean combustion. Schroeder also provides filtration solutions that support lower emission, compressed natural gas.

Process Filtration

For systems powered by clean, renewable hydrogen, our Process Filtration division offers premium hydrogen gas filters.

Here are just a few product highlights from Schroeder's Energy Sustainability Initiative:

Markets Served

E-Drive Media

- 60% lower clean pressure drop maximizes energy efficiency, extends battery life, and reduces operational cost. Ideal filter element for battery-drive electric systems.
- Potential for reduced horsepower requirements in certain applications.
- The all-new specialty formulated, high efficiency, low differential pressure media is crafted with signature Schroeder Industries quality for superior filtration.

AFT | Air Fusion Technology

- Reduces air in the suction line by 20% more than standard filters on the first pass, increasing the reliability and efficiency of your equipment.
- Downsize your hydraulic tank up to 60% for a smaller, lighter, more energy efficient hydraulic system.
- Quality Protected, Lock & Key endcap ensures high-quality filter element usage.

TFC | Total Fluid Condition

- Proper fluid contamination analysis extends oil life and reduces waste. The TFC offers accurate, real-time ISO counts for swift assessment of fluid health.
- Digital imaging sensors use shape-recognition technology to estimate the source and cause of particulate contamination for a more effective treatment plan.
- Take the compact, ultra-portable TFC anywhere exceptional fluid analysis is needed!

BestFit® | Compressed Gas Filter Replacements

- Replacement element kits designed for Finite J-Series housings in common sizes and media grade equivalents.
- Currently available in 4C, 10C, and WS media grade equivalents, using pleated microglass media for extended service life with exceptional performance.
- The element kits include the replacement bowl seals, designed to fit the competitor housings in the full range of sizes.

TDSA | Triton® Dehydration Station

- Massive quantities of hydraulic oil are wasted before their usable life potential is reached due to contamination. The TDSA is highly effective in removing particulate and water contamination from hydraulic fluid, extending fluid life and cutting down waste.
- The TDSA uses patented mass transfer dewatering technology to eliminate 100% of free water and up to 90% of dissolved water from small reservoirs, barrels, and gear boxes.
- Simple controls in a compact, efficient footprint.

For more information and a complete listing of products within the Energy Sustainability Initiative, visit **schroederindustries.com/sustainability**