

Today's manufacturing industry is laser-focused on energy conservation. With soaring costs, environmental concerns, and dwindling resources, it's imperative. Our engineers are at the forefront, conducting audits, installing renewables, and crafting energy-efficient solutions. Check out some of our game-changing innovations:

## Plate Heat Exchangers

Maximizing sustainability and efficiency can be achieved through an on-site equipment audit by our engineers. The reconditioning of your APV Plate Heat Exchanger can restore it to its original performance and energy efficiency, **promoting sustainable operations and cost savings over product lifecycle.**



## Scraped Surface Heat Exchanger: Nexus

By designing machinery with sustainability goals in mind, we're able to leverage carbon dioxide (CO<sub>2</sub>) for energy-efficient heat transfer in solutions like the Gerstenberg Schröder Nexus Scraped Surface Heat Exchanger. This innovation significantly **enhances heat transfer efficiency by up to 30%** and reduces energy consumption in refrigeration systems by 30% compared to traditional ammonia-based systems. The Nexus represents a substantial advancement in sustainable technology, making it a more environmentally friendly and efficient solution.



## Side Entry Mixer: Advanced Pitch Propeller

The Philadelphia Advanced Pitch Propeller mixer boasts energy savings as its primary advantage, thanks to its patented circular rate and fluid flow characteristics. Its smaller footprint reaches deeper into tanks, offering faster blending with less energy consumption. The mixer is ideal for critical applications like crude blending and gasoline blending, **achieving up to 50% energy savings** when mixing fluids with a significant density difference. This impeller exemplifies sustainability through improved efficiency and reduced power usage.



## EARTH DAY, EVERY DAY: ENERGY OPTIMIZATION

OUR SANTORSO SITE  
UPGRADED TO AN  
**energy-efficient  
heat pump system**  
ALIGNING WITH GLOBAL  
**sustainability goals**  
AND SAVING OVER  
**70,700 kWh**  
OF GAS ANNUALLY.

THESE SAVINGS REDUCE  
**CO<sub>2</sub>**  
**emissions by more than**  
**40%**



**In summary, we're here  
to help you be faster,  
cleaner and greener. This  
is sustainability in action.**