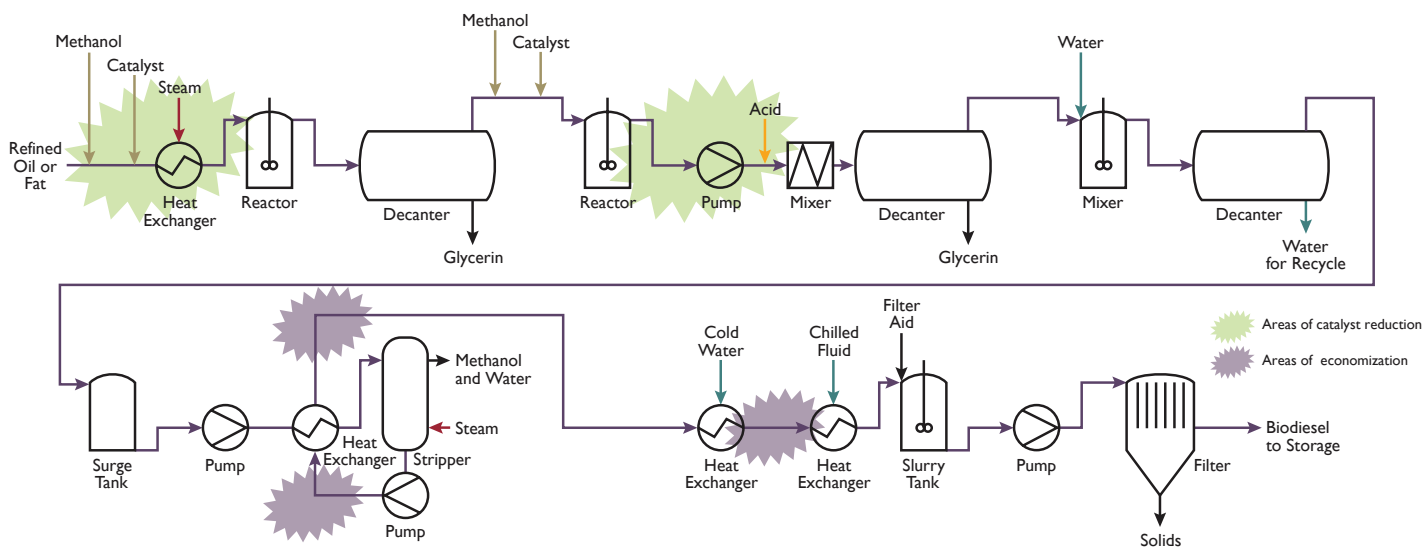
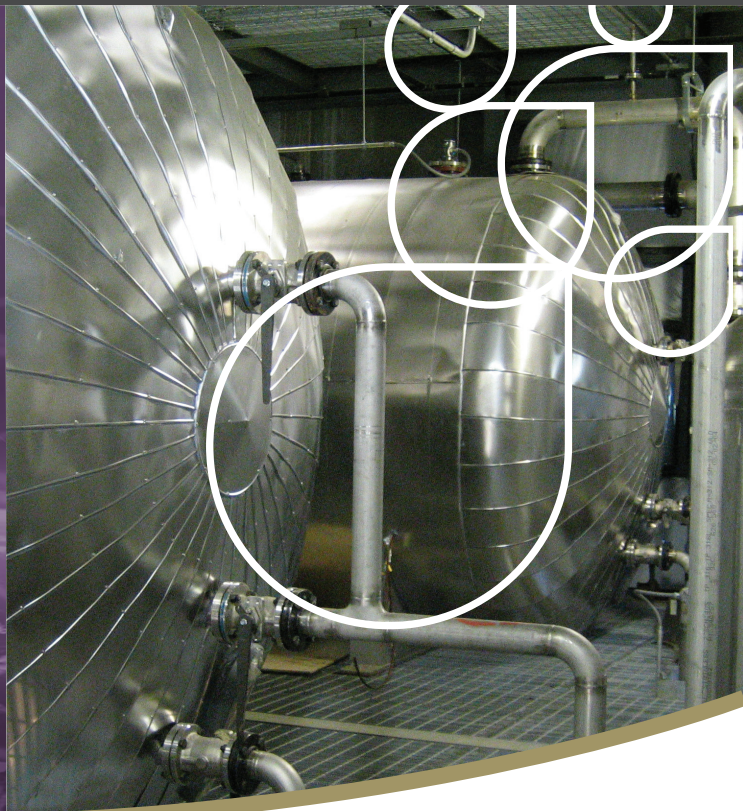


# Lower Your Operating Cost Per Gallon

## Advanced Catalyst Reduction & Economization™



## Crown's proven innovation leads the way.

Backed by our expertise in biodiesel processing, Crown introduces a process upgrade for biodiesel manufacturers. **ADVANCED CATALYST REDUCTION & ECONOMIZATION (ACRE)** allows you to run at the lowest operating cost and highest efficiency by adding a third transesterification reaction step while also delivering an energy efficient design for reduced cooling load and steam use.



# Advanced Catalyst Reduction & Economization™ (ACRE) advantages:

40%  
LESS

catalyst  
used

\$.03

per gallon  
savings

- Plants in production achieving 40%+ catalyst reduction
- Reduced acid usage
- Energy savings through economization
- Reduced load on cooling and heating systems
- Increased uptime
- Minimal plant disruption - short implementation time can be coordinated with annual shutdowns
- Proven in multiple geographies
- Proven with different feedstocks
- Can be retrofitted in plants with decanter and centrifuges
- Ideal for greenfield installations
- Consistent biodiesel quality
- Higher quality glycerin with less salt content

## Proven in new and existing plants.

This latest innovation from Crown is running successfully in multiple plants and yielding impressive results. As a system upgrade, it's easily retrofitted into any unmodified Crown plant. This upgrade may also be available for centrifuge operations. Greenfield installations can benefit greatly from including this technology in designs to improve performance and total cost of ownership. In addition, with fewer moving parts to repair, Crown's decanter-based biodiesel program supports a robust operation with proven reliability and increased uptime.

## For game-changing innovation, partner with Crown.

Accelerate your operational advantage with Crown's expertise and state-of-the-art Innovation Center. Our 15,000 square-foot fully functional plant offers real-world capabilities where you can analyze processes, troubleshoot issues, increase operational knowledge, and more, all within a controlled, low-risk, confidential environment. Tap into our deep process engineering knowledge to identify and implement optimization strategies that yield process upgrades, increase energy efficiencies and improve total cost of ownership. And, count on responsive action and breakthrough problem-solving from our global team of experts dedicated to providing game-changing innovation and exceptional service.



## Advanced Catalyst Reduction & Economization™

Get ready to run at the highest efficiency and lowest operating costs.  
Upgrade your technology to ACRE from Crown.



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