

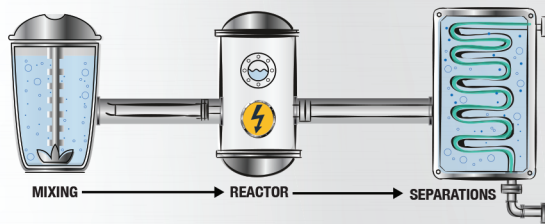
Process Intensification — A New Paradigm

TRADITIONAL MANUFACTURING

- Large-scale
- Energy Intensive
- Complex Series of Steps
- High Maintenance
- Inefficient Use of Waste



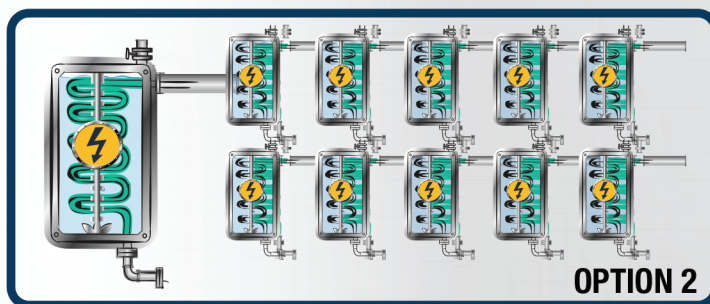
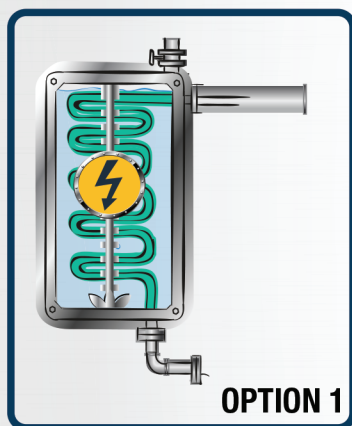
1/3 of energy used in the U.S. is by the manufacturing sector



**LEANER
GREENER
CLEANER
SAFER**

PROCESS INTENSIFICATION

- Modular
- Combined Steps
- Agile
- Energy Efficient
- Cost Effective
- Technology Driven



BENEFITS



INCREASED
Energy Productivity & Efficiency



INCREASED
Process Safety



INCREASED
Quality & Waste Reduction



REDUCED
Capital & Operating Cost



INCREASED
Workforce Development



INCREASED
Sustainability