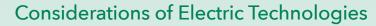




The Business
Benefits of Electric
Technologies



#### **COST SAVINGS**

- Reduced energy costs
- Reduced maintenance costs
- Reduced operational costs
- Improved floor space utilization
- Improved project net present value (NPV)
- Improved simple payback times
- Reduced total cost of ownership
- Potential funding opportunities

## Overview

New electric technologies for commercial, agricultural and industrial businesses are emerging rapidly, providing unmatched process efficiency solutions. Applying these technologies to end uses that would otherwise consume fossil fuels (e.g., fuel oil, diesel, natural gas, propane, gasoline) can yield benefits that include cost savings, higher productivity and reduced emissions, as well as a more flexible, efficient electric grid. Assessments are available to help understand how these technologies can aid your operation.

## Business Solutions from Your Electric Cooperative

As a local electric cooperative, we are here to support your business as you implement electric technologies. We can help you with an initial assessment, including cost and environmental savings, as well as provide vendor recommendations and ensure all infrastructure needs are met.

### ♠ PRODUCTIVITY

- Increased line speeds
- Improved product quality
- Reduced waste and scrap
- Improved material flow
- Improved process control and efficiency
- Improved overall equipment effectiveness (OEE)

#### **ENVIRONMENT & SAFETY**

- Reduced emissions and greenhouse gas/carbon footprint
- Improved working conditions, labor efficiency and operator safety
- Reduced regulatory requirements
- Improved ergonomics
- Improved corporate image based on greener production processes

# Electric Technologies and Example Processes

Many electric technologies are suitable across a range of processes. In the table to the right, the circles signify processes that may benefit from their application.



Electric Technologies	Electric Boilers (Hot Water & Steam)	Electric Forklifts	nce	Electric Transport Refrigeration Units (eTRUs)	Water	on	Industrial Heat Pumps	70	ave	Radio Frequency	olet
Processes & Examples	Electric (Hot Wate	Electric	Electric Resistance	Electric Refriger	Electric Water Pumps	Induction	Industri Pumps	Infrared	Microwave	Radio F	Ultraviolet
Curing	•		•					•	•		•
Coatings	•		•					•	•		•
Inks	•		•					•	•		•
Meats	•		•					•	•		
Powder Paint	•		•					•	•		
Tobacco	•		•					•	•		
Disinfecting	•		•								
Dairy	•		•								•
Food	•		•								•
Pharmaceuticals	•		•								•
Produce	•		•								•
Water	•		•								•
Wastewater	•		•								•
Drying	•		•				•	•	•		
Fabricated Parts	•		•				•	•	•	•	
Food	•		•				•	•	•	•	
Grains	•		•				•	•	•	•	
Inks	•		•				•	•	•	•	
Lumber	•		•				•	•	•	•	
Paper	•		•				•	•	•	•	
Textiles	•		•				•	•	•	•	
Heating	•		•				•		•		
Annealing			•			•					
Baking/Cooking			•			•	_		•		
Buildings			•			•	•				
Forging Billets			•			•					
Steam/Water	•		•				•				
Surface Hardening			•			•					
Material Handling											
Distribution		•									
Warehouses		•									
Melting								•	•		
Metals								•			
Plastics								_			
Welding Pumping					•						
Irrigation Livestock Water					•						
Refrigeration											
Transportation				_							

## **Contact Us**

For more information, please contact your local electric cooperative. Visit ncelectriccooperatives.com/our-members to find contact information for your co-op. Ask for your co-op's key accounts representative.



#### Connect with NCEC:

Contact your Key Accounts Rep





#### Connect with Advanced Energy:

(919) 857-9000

moreinfo@advancedenergy.org

