

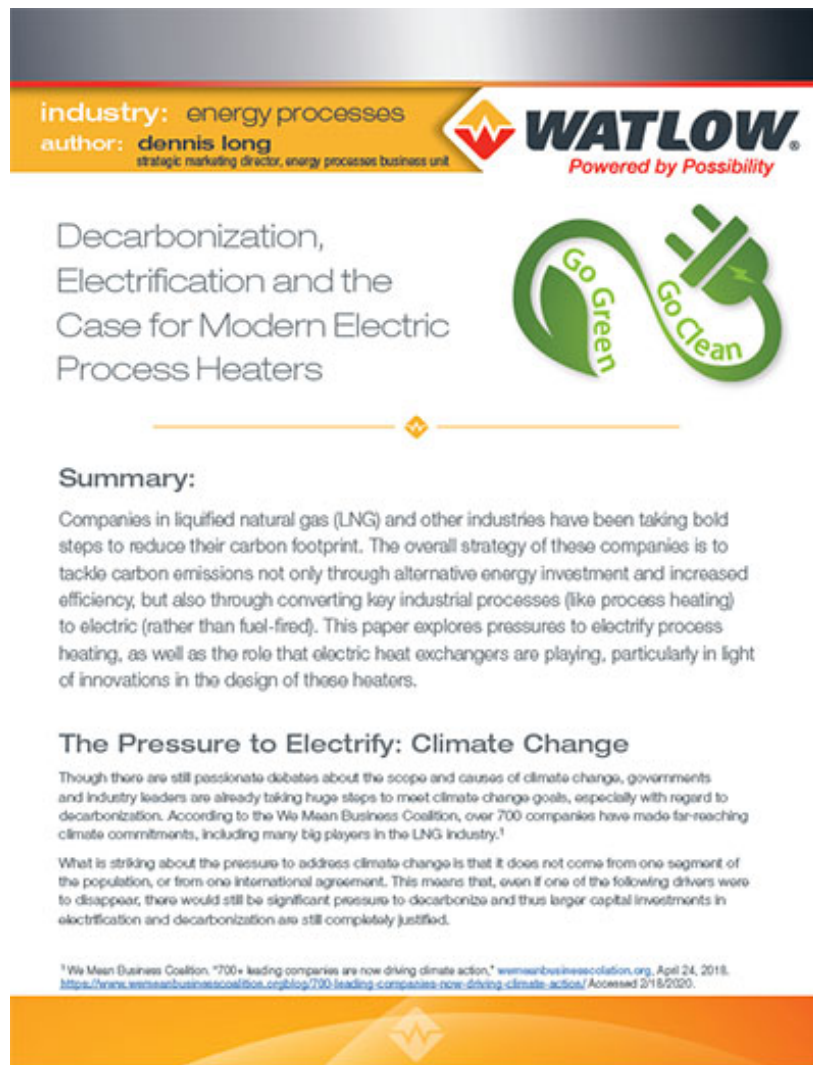
WHITE PAPER: Decarbonization, Electrification and the Case for Modern Electric Process Heaters

By: - April 17, 2020

Summary

Companies in liquified natural gas (LNG) and other industries have been taking bold steps to reduce their carbon footprint. The overall strategy of these companies is to tackle carbon emissions not only through alternative energy investment and increased efficiency, but also through converting key industrial processes (like process heating) to electric (rather than fuel-fired). This paper explores pressures to electrify process heating, as well as the role that electric heat exchangers are playing, particularly in light of innovations in the design of these heaters.

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The image shows the cover of a white paper. At the top, there is a dark blue header with the text "industry: energy processes" and "author: dennis long" in white. Below this, the WATLOW logo is displayed, featuring a stylized red and white 'W' icon and the text "WATLOW Powered by Possibility". The main title of the paper, "Decarbonization, Electrification and the Case for Modern Electric Process Heaters", is written in a light blue font. To the right of the title is a green graphic consisting of a leaf and a plug, with the text "Go Green" and "Go Clean" respectively. Below the title and graphic, there is a section titled "Summary:" followed by a paragraph of text. Below that is another section titled "The Pressure to Electrify: Climate Change" followed by two paragraphs of text. At the bottom of the cover, there is a small footnote and a footer with the WATLOW logo.

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author: dennis long
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WATLOW
Powered by Possibility

Decarbonization,
Electrification and the
Case for Modern Electric
Process Heaters

Go Green
Go Clean

Summary:

Companies in liquified natural gas (LNG) and other industries have been taking bold steps to reduce their carbon footprint. The overall strategy of these companies is to tackle carbon emissions not only through alternative energy investment and increased efficiency, but also through converting key industrial processes (like process heating) to electric (rather than fuel-fired). This paper explores pressures to electrify process heating, as well as the role that electric heat exchangers are playing, particularly in light of innovations in the design of these heaters.

The Pressure to Electrify: Climate Change

Though there are still passionate debates about the scope and causes of climate change, governments and industry leaders are already taking huge steps to meet climate change goals, especially with regard to decarbonization. According to the We Mean Business Coalition, over 700 companies have made far-reaching climate commitments, including many big players in the LNG industry.¹

What is striking about the pressure to address climate change is that it does not come from one segment of the population, or from one international agreement. This means that, even if one of the following drivers were to disappear, there would still be significant pressure to decarbonize and thus larger capital investments in electrification and decarbonization are still completely justified.

¹We Mean Business Coalition. "700+ leading companies are now driving climate action." www.wemeanbusinesscoalition.org, April 24, 2018. <https://www.wemeanbusinesscoalition.org/blog/700-leading-companies-are-driving-climate-action/> Accessed 2/18/2020.

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