



MEET RHIANNA

FACILITY ENGINEER

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STUDIED BACHELOR OF ENGINEERING

(Honours), Extended Major in Mechanical,

THE UNIVERSITY OF QUEENSLAND.

How does your role in the energy sector positively impact energy sustainability?

As a Project Engineer at a liquefied natural gas facility, I and all engineers in the energy sector, help to develop technologies and solutions for the environmental challenges that face this industry. This is so important, because finding ways to responsibly produce energy is one of the greatest challenges that our world faces.

As an energy sector, we need to find a way to do this while ensuring global access to energy, and equal opportunities for quality of life. As an engineer – you get to work this problem at a technical level and be a part of the solution to meeting the world's energy demands.

How does technology help you in your role to be more environmentally sustainable?

There are a lot of emission reduction opportunities in the energy sector, and as an engineer, you get to be a part of identifying what these are and pioneering that change.

A way engineers have done this on our liquified natural gas, or LNG facility, is by reducing the emissions produced by our gas turbine generators through an 'operating mode' called Power Boost. Power Boost is essentially a "turbo-button" for our turbines, and it allows us to reduce the number of generators we have online at any given time and also maximises the efficiency of the ones in operation. Power Boost was implemented in December 2022, and in the last two months, has reduced our carbon emissions by 604 tonnes of

carbon dioxide. Over a year, this is the equivalent of taking around 1,000 cars off the road.

How is this having a positive impact on a sustainable future?

Meeting future energy demand is a multifaceted problem that will require new energy technologies and sources – but what shouldn't be underestimated, is the importance of having engineers working on how we can make a technology that is currently available to us, more sustainable.

This is what technologies like Power Boost and Advanced Process Control can do. Engineers help institute these technologies, and they play an essential role in reducing our climate impacts while producing a secure source of energy for our sustainable energy future.

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