



MEET MADDY

OPERATIONS TECHNICIAN
CONOCOPHILLIPS AT APLNG,
GLADSTONE, QLD.
STUDIED REMOTELY THROUGH
ACEPT SOUTH METROPOLITAN TAFE,
CERT III IN PROCESS PLANT TECHNOLOGY

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

Liquefied natural gas, or LNG, is a lower emission fuel and how we efficiently operate the Australia Pacific LNG facility directly impacts emissions. As an operator at the Australia Pacific LNG facility, I help produce liquified natural gas, by monitoring, maintaining, and controlling the different equipment and processes that happen on-site.

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

Hundreds of thousands of valves, components and machinery need to be operated at the same time for us to produce LNG. If we don't do this correctly, machinery can run without optimised which reduces our energy efficiency. Advanced Process Control is an example of just one technology we use at the Australia Pacific LNG facility, that helps operators run the plant efficiently. Advanced Process Control is an advanced

computerised controller which computes plant conditions in real time, and automatically adjusts and optimises different variables which impact our plant efficiency. For example, Advanced Process Control will optimise the temperatures of our refrigeration systems or the loads on our compressors, which reduces the amount of energy required to produce LNG and therefore, reduces emissions. This technology helps me as an operator ensure we are producing energy in the most responsible way possible.

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

Advances in computerised technology and artificial intelligence systems are key to increasing the sustainability of the energy industries. These technologies help us to operate efficiently to provide a lower emission energy source for today as we transition to a more sustainable energy future.