

Michael Joinson GDH Instrumentation, Control & Electrical ...Creating an environment where our engineers are valued, appreciated and recognized for the commitment to see our industry succeed...

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World Class Engineering

It's about:

- Us. Safety comes first; commercially minded, we guide our own development in pursuit of personal and business needs
- Leveraging a diversified and competent engineering community
- Ensuring the basics are executed extremely well
- Celebrating our successes, sharing our challenges and learning from each other
- Reducing the risk to people, removing them from harm's way by automating the process
- Pursuing goal zero by reducing our process safety incident rate to the lowest in industry, our safety systems working in harmony with other barriers
- Our automation and power systems presenting a hard target to potential cyber attackers and demonstrating resilience if compromised

The Energy Transition & Sustainable Solutions Today

- Facilitating a low carbon future for our existing facilities and emerging markets, enabling us to thrive in the energy transition through the automation and electrification that we drive
- Building technical expertise for a profitable new energies business
- Leading discipline Engineering through the energy transition, and creating sustainable solutions today

Digitalization & Technology

- Leading the digitalization agenda, creating and leveraging a positive disruption in the automation and power systems world
- Maximising our production operations value through smart control, modelling and optimisation
- Continually striving to improve our systems, service and capabilities. Empowered to try new ideas, we either succeed or fail fast
- Actively seeking new automation and power technologies with tangible benefits and getting them deployed in an agile and timely manner



Global IT-OT (Operational Technology) Perspective

What is Changing?



Technology distinctions between IT & OT are reducing



Accelerated growth in the quantity of both Business and Operational data, in addition to data management needs

New methodologies to achieve improvements in reliability of equipment

Why is it important?



Critical enabler to **close the** asset performance gap & increase autonomy



Avoids cost & risk of OT transformation while enabling the Asset of the Future



Leverage synergies into **decarbonization** efforts and **new energy opportunities**



IT-OT - Pursuing Autonomous Operations



- Moving to Autonomous Operations requires:
- Site assessment of the current level of autonomy with aspirations for both the availability and optimization
- Work processes as the basis for delivery and deployment
- A strategy & plan to implement increased levels of autonomy
- Parallel tracks for different timelines (e.g. aspects of Intelligent autonomy may require research & an OPAF/IT-OT/MPDS playground)

Delivering the optimal desired level of autonomy.

External data point - IOGP (International Association of Oil & Gas Producers) Business Case: Risk reduction due to elimination of personnel during normal operations

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Digitalisation and AI Driving effciency in our existing businesses



better value outcome

Helping our frontline use data to drive a



Maximising availability



Digital twin

Key enablers

Data enables Al

Culture and Learning

1000

Access to talent



