Finding the right formula for the challenges ahead

As the UK begins to emerge from the pandemic, looking beyond 2020 means focussing budgets and resources on a new set of challenges. With the industry facing the need to digitalise and decarbonise, the mass electrification of the sector requires tried and tested thinking around electrical infrastructure resilience to meet this new challenge head-on.

According to a recent report from the CIA, the chemical sector has reduced its direct emissions by 80% over the last 30 electrification of the industry. The sector relies not only on wholesale electricity becoming more competitive, but also new ways to reduce and produce its energy on-site. This move to electrification however also poses new risks for organisations who may be adding unforeseen electrical stress onto their facility as the move away from gas continues.

customers range from major corporations like BASF, Dow, thriving small and medium enterprises who also make a huge contribution to the sector.

"The concept of electrical infrastructure resilience is nothing awareness for decades, simply because of its energy intensive nature," said Siemens' Head of Chemical Industry, Ian Elsby.

Siemens' involvement in this space hinges on three key areas in the drive for decarbonisation and mass electrification of reduce refers to being as energy smart and efficient as you possibly can. Our thinking is that if it can be measured, it can on-site generation. While local generation may not cover the entire site's needs, it may be enough to be stored and used to offset periods of heavy use at peak time. With the grid decarbonising at such a rate, the third area is procure, and for a lot of organisations that has been the easy part so far."

lan added: "Finding ways to help all industry with energy pricing over the coming years while meeting the UK's carbon neutral targets is obviously key. But being as energy smart and efficient as you possibly can be at your plant can and will make a major contribution to the bottom line. With additional, visible data they can identify individual production processes which could be more energy efficient. Even a relatively small company which is using a process like electrolysis might have an annual electricity

Measure for success

For many global customers in this sector Siemens is also

sources. The first step for organisations is understanding how much of their site contains legacy equipment and quickly dating electrical infrastructure. For a major company, it might own older 'legacy' sites within a portfolio which might be four decades into service and they will not be particularly energy efficient.

This doesn't just apply to multi-site owners. Siemens also works with smaller SMEs creating bespoke solutions for their of liaising with the OEM who understands the entire energy

lan concluded: "When you work with Siemens you get the advantage of speaking with an OEM who understands the big picture; everything from industrial automation and

Find the answers to your energy resilience questions or book a site visit to discuss your challenges with our technical team here: www.siemens.co.uk/energy-resilience



Image Source: Siemen:

of chemical industry-specific knowledge. As Head of Chemicals, Siemens UK & Ireland, lan's current role sees him responsible for liaising directly with the on the industry challenges faced by UK

manufacturers, OEMs and engineering businesses to ensure Siemens develops value-based solutions and technologies for its clients.

lan is engaged within several UK chemical industry networks. offering insights around the following themes: The Internet of Things, automation, digitisation, Industry 4.0, productivity, and LNS **Connected Manufacturing**

