

Environmental management

Genetec is committed to environmental responsibility. We adhere to all local environmental laws and regulations concerning environmental protection and pollution control outlined by the Department of Environment. We are actively exploring ways of managing and optimising our energy, water and waste consumption efficiencies where possible.

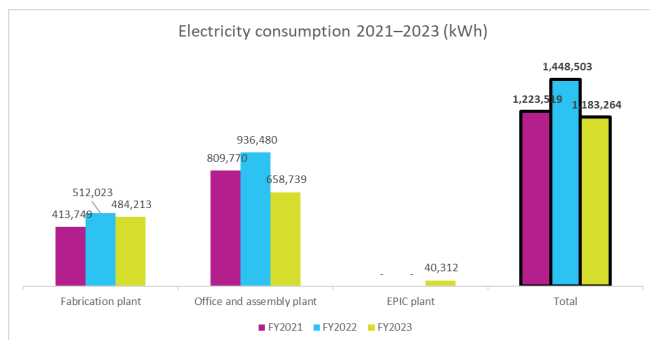
Apart from managing our operational environmental footprint, our products and services are expanding to support green energy and are a significant locus of our business diversification plans. Since 20XX, we have supplied production lines and automation solutions for the electric vehicle market in several countries. In April 2023, we collaborated with Citaglobal Berhad to launch Malaysia's first battery energy storage system (BESS). This was successfully developed and piloted in late 2022 at our new Genetec EPIC plant in Bangi. Once fully operational, we aim to gain a foothold for multiple industries in the energy storage solutions sector.

As we forge ahead, developing a greater understanding of our carbon footprint will be integral for our operations, and other stakeholders. In Q3 2023, we will conduct a carbon baseline assessment to understand the primary sources of our greenhouse gas (GHG) emissions. The outcome will help us develop carbon reduction plans and support customer GHG data supply chain requests.

Energy management

In FY2023, our total electricity consumption was 1.18 million kilowatt hours (kWh). [Reason for FY2022 and FY2023 data]

We are optimising our electricity consumption to mitigate environmental impacts and maximise cost reductions. This includes regulating indoor temperatures and setting air conditioning timers at our offices and factories. We are also exploring ways to increase and diversify our operational renewable energies. One such example is a solar installation with a 50.22-kilowatt peak (kWp) capacity at part of our newly-commissioned EPIC plant, where generating electricity from solar reduces reliance on sourcing from the grid.



Note: No prior data is available, given that the EPIC plant was commissioned in Q4, 2023.

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Deleted: Aside...part from managing our operational environmental footprint at our own operations... our products and services are expanding to support the green energy industry ...nd is...re a major focus area for...ignificant locus of our business diversification plans. Since 20XX, we have supplied production lines and automation solutions to...or the electric vehicle markets...arket in several countries worldwide... In April 2023, we also launched...ollaborated with Citaglobal Berhad to launch Malaysia's first battery energy storage system (BESS) through a joint venture with Citaglobal Berhad, that... This was successfully developed and piloted at the end of...n late 2022 at our new Genetec plant in Bangi. Once we are ...ully operational, the...e aim is ...o gain a foothold for multiple industries in the energy storage solutions market for multiple industries (... [2])

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The launch of Malaysia's first battery energy storage system

As the global adoption of renewable energy increases rapidly, we are presented with new and unique opportunities to bolster growing demand. A key challenge renewable energy users face is maintaining access to a stable energy supply. Renewable solar energy is less predictable than fossil fuels and other energy sources, Seasonal, weather and time-of-day fluctuations necessitate the use of industrial large-capacity renewable storage systems to facilitate a stable energy supply. However, these solutions are expensive, not widely available and are usually immovable, limiting their use to just one area.

On 11 April 2023, we launched Malaysia's first locally developed and produced battery energy storage system (BESS). This portable solution can be connected directly to renewable energy or intermittently to grid sources for storing and harnessing large amounts of excess renewable energy. Applications range from power conversion, power management or battery management systems.

This technology can be scaled up or down to cater to different industry verticals, such as large industrial plants, manufacturing, transport, energy supply and distribution, and telecommunications operators.

BESS's launch followed the pilot of a 1-megawatt (MW) BESS prototype (called MYBESS) that was successfully developed in December 2022. To demonstrate its capability, the prototype is currently being used to support the energy needs of the recently commissioned Genetec EPIC plant adjacent to our current factory in Bangi.

The BESS system is the result of an October 2022 joint venture between Genetec Technology Bhd and Citaglobal Bhd and is known as Citaglobal Genetec BESS Sdn Bhd.

The launch was conducted by the Minister of International Trade and Industry of Malaysia (MITI). Attendees also included the chairman of the Malaysian Investment Development Authority (MIDA), senior officers and representatives of various ministries and agencies.

See the full press release [here](#).

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Waste management

Genetec generates two types of waste at our manufacturing facilities: hazardous and non-hazardous. Hazardous waste includes expended hydraulic oil, mineral oil, and items that have come into chemical contact, such as rags, gloves, and disposable containers. Non-hazardous waste includes plastic and paper collected in and around our factories and offices.

All waste is collected, sorted and stored in temporary storage units. Hazardous waste is sent to a Department of Environment-licensed third-party disposal service provider. Non-hazardous waste, such as aluminium scrap, is reused or recycled wherever possible. Non-recyclables are sent to landfill.

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Hazardous waste produced by type FY2023

Hazardous waste	Total generated (kg)
Spent hydraulic oil	400
Spent mineral oil	2,400
Rags and gloves	677
Disposable containers	78
Total produced	3,654

We are also piloting employee digital solutions to help reduce paper waste at our operations and offices.

Genetec supports our customers through after-sales services outside of our operational area.

Waste minimisation initiatives include retooling, retrofitting and equipment relocation.

Water management

Operational water use is minimal in the manufacturing of our products. Water is mainly consumed by our employees in our offices and toilets.

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