

Green BELLE Case Study: Digital Concepts Engineering Ltd



Before



After roller shutter door was replaced



New ASHP



New insulated panels



HW cylinder (during installation)

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Digital Concepts Engineering Limited designs and manufactures unmanned ground systems and vehicle control systems. These are used across a number of industries to keep people out of harm's way.

The business was expanding into new premises, which were previously used mostly as a warehouse. The building had two unused, non-insulated roller shutter doors and had ventilation (an air gap) between the roof and the top of the walls.

The current heating system was a propane tank-sourced space heater.

Digital Concepts Engineering Limited applied for funding from Green BELLE for only a proportion of the total works required.

There were two major work packages they were seeking funding assistance for:

1. Installation of an air source heat pump, associated controls, insulated pipework, etc (the flooring element of this having been installed previously).

2. Upgrade of the building structure for energy efficiency – replacing two large (5m wide) metal roller shutter doors with insulated wall panels; installation of three non-opening double-glazed units to reduce the requirement for workshop lighting; installation of insulating material between the roof and the tops of the walls; and installation of a small fire door to be fitted to replace the roller shutter door.

The business was also putting several other measures in place as part of the full conversion. Approximately 120 m² of underfloor heating was being installed for the office area, along with an insulated ceiling complete with LED lighting, and LED replacement of the high-bay lights.

After reviewing the application, Green BELLE provided a grant to Digital Concepts Engineering Limited of £10,000, which was the maximum grant, to cover part of the overall cost of this project.

As a result of the grant awarded by Green BELLE, Digital Concepts Engineering Limited is expected to reduce its carbon footprint by saving the equivalent of around 9 tonnes of CO₂ per year. That's the same as the annual emissions from three homes.

Ed Gummow, Engineering Director, said:

“DCE is committed to reducing our environmental footprint where possible; the grant from Green BELLE allowed us to accelerate this process significantly. The assistance from Green BELLE, from initial advice through to equipment installation was invaluable, and we strongly encourage other companies to take advantages of schemes such as this when seeking to reduce their own emissions.”

Green BELLE was part-funded by the European Regional Development Fund and was administered by Leicester City Council with support from Leicestershire County Council. The scheme provided grant funding to eligible SMEs to install energy efficiency measures from 2017 to May 2023.

For more information, visit www.greenbelle.org.uk and www.leicester.gov.uk/your-council/policies-plans-and-strategies/energy-efficiency/