

# CASE STUDY

## TRUCK AND MARINE CRANES LTD



### KEY FACTS



Installation time:  
**Four weeks**



Carbon saved annually:  
**41,568kg**



Annual energy generation:  
**103,604 kW**



Array output:  
**92.83 kWp**

Market leaders in the supply, design and build of lorry and ship-mounted cranes Truck and Marine Cranes Ltd approached Shawton Energy for the installation of a rooftop Solar PV system at their headquarters in Staffordshire.

As Truck and Marine Cranes manufacture and build cranes, they use a large amount of energy in doing so; therefore, they wanted to significantly reduce their electricity costs and reliance on the grid for the energy required in their manufacturing process.

#### THE PROCESS

The Truck and Marine Cranes site in Staffordshire was open throughout the rooftop Solar PV system installation, which took four weeks. The system was spread across three different buildings on their extensive site to ensure the maximum size could be achieved to generate as much electricity as possible.

Before installation, we created a full-site compound with scaffold access and handrails to ensure safe access for our installation team. Next, the Shawton Engineering team installed a high-quality Solar PV system comprised of 235 395w Trina Solar Panels, 118 SolarEdge P801 Optimisers and 3 SolarEdge SE 33.3k inverters.


#### THE RESULT

Truck and Marine Cranes are now generating their electricity in a future-proof way, significantly reducing their electricity bills and ensuring their business is not relying heavily on electricity from the National Grid for their manufacturing process.

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