



WNV SYSTEMS

The complete transport washing solution

CHICHESTER DISTRICT COUNCIL Case Study Brochure



WNV-Systems design, development, and installation of a new complete automatic wash system facility for Chichester District Council



THE COMPANY

WNV-Systems design, deliver, and install commercial vehicle wash systems. We have been developing wash systems for local authorities for over 25 years partnering with numerous organisations.

Working with our partners we have provided solutions to cost effective vehicle cleaning and sanitation.

We offer our partners unmatched after sales service, support, and maintenance options. This gives comfort in knowing we are always here to support them and their vehicle washing needs.



OVERVIEW

Chichester District Council approached WNV along with other wash companies to tender on the Design and Installation of an Automatic Vehicle Washing Facility, not only to wash their own fleet of vehicles but to be able to wash most types of vehicles. Therefore, giving the council the ability to offer out its use to commercial operators and turn their investment in to an ongoing profitable revenue stream.

The facility had to comply to the following requirements / capacities.

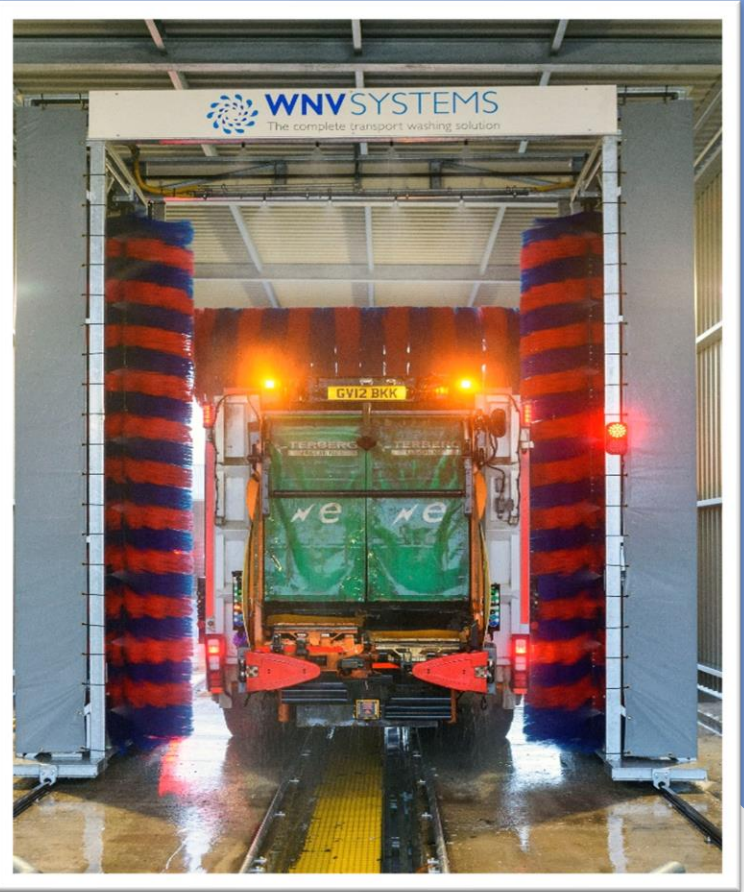
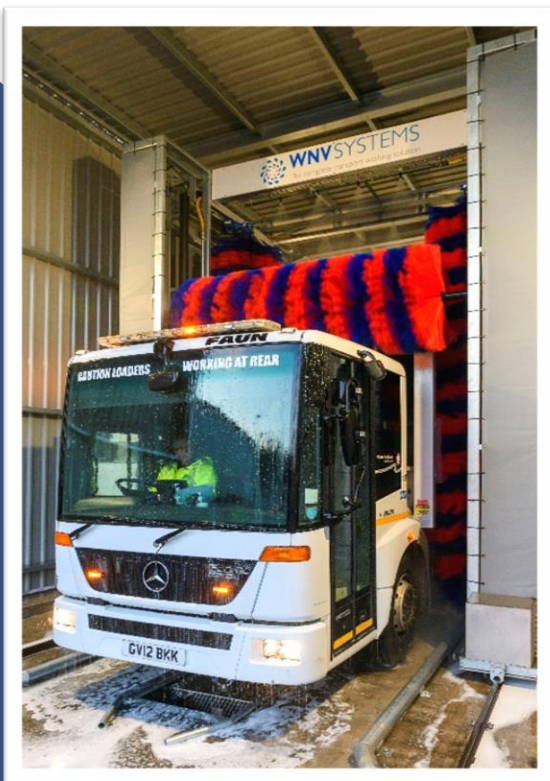
- ❖ Able to wash vehicles up to 5m in height and 18m in length.
- ❖ Three-brush rollover capability with a high-pressure wash option for irregular shaped vehicles.
- ❖ Future proof Automatic Under Chassis Wash able to clean all vehicles including hybrids and full electric to a full MOT standard.
- ❖ Water reclamation systems capable of working with the Automatic Under Chassis Wash and recycle up to 95% of retained water.
- ❖ Hot Pressure Wash systems for manual detailing.
- ❖ Entire facility to be housed in a standalone open-ended building.

SITUATION

With the planned redevelopment of the Councils existing depot, Chichester District Council took the opportunity to address many operational problems and shortcomings.

The council were experiencing challenges in keeping their fleet clean on a regular basis. The requirement to thoroughly clean their vehicles prior to resuming service to the local community was showing traditional manual washing was no longer practical or cost effective.

Chichester District Council awarded WNV the contract as they were deemed to offer the best 'Cost/benefit' package of being able to fulfil all requirements and capabilities. Allowing all council fleet vehicles to be cleaned along with a fully automatic under chassis wash system designed to operate in harsh environments and clean to Ministry of Transport test standards. This gave the council the opportunity to considerably reduce the H&S implications of manual pressure washing as guided by the HSE regulations.



CHALLENGES

The main challenges faced were to provide a wash system that could:

- ❖ Clean any commercial vehicle to a high standard.
- ❖ Work constantly over long periods of time with no reliability issues.
- ❖ Reduce the current water usage.
- ❖ Be safe & easy to operate.
- ❖ Installation integrated with a major depot overhaul.
- ❖ Ability to work automatically for external customers as well as for internal fleet use.

IMPLEMENTATION

The initial design of the system required installation of a deep 1.5mtr x 18mtr pit with safety flooring to work as a catchment tank to recycle water used during the wash cycles.

WNV worked alongside architects to design a complete wash area with a footprint of 7m x 24m. Ground works were designed to accommodate the building and plantroom areas ensuring the entire wash bay area provided a fall back to the central pit. After design stages the civil works were completed, and the framework for the building erected.

The equipment was installed alongside a new water reclamation unit housed within a plant room and a dual card and code reader allowing external users to automatically use the facility.



RESULT

After working closely with Chichester District Council WNV have successfully implemented a modernised vehicle wash facility for the council to maintain their fleet to the highest of standards.

The new facility also gives the council the opportunity to utilise their investment as an ongoing revenue stream, this is allowing them to advertise third party use of the installation.

After commissioning and customer `sign off` the system has proved extremely successful.

FUTURE INNOVATIONS

WNV are continuing their partnership with Chichester District Council offering their support and maintenance as well as looking to innovate the facility to operate with ANPR.

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We are really pleased with WNV as an experienced partner, following a seamless installation they helped us identify how to best operate the system for the many different vehicle options we were planning and proved to be very proactive in this regards

-Kevin Carter, Chichester District Council

