

# World's First Intrinsically Safe In-Tower Turbine Toilet System



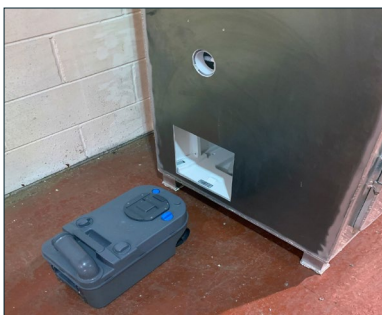
The In-tower toilet (ITT) system is the world's first patented (GB2016641.9) retro fit toilet cubicle that can be installed in a wind turbine tower. The unit is completely self sufficient and requires no external power or water source.

The In-tower unit is made of lightweight materials that facilitate easy installation and has its own in-built certified lifting frame (LOLER) and is tested under DNV standards. Each unit comes with its own rigging and certification. All In-Tower units are custom manufactured for each turbine type and the width of the In-Tower unit is determined by access requirements.

ITT units provide crucial welfare provision during the operations and maintenance phase of an onshore or offshore wind farm development and are available for global mobilisation.

Portable welfare units supplied meets the specific requirements of the latest international standards & approvals.

PWS is licensed by The Environment Agency to handle all waste generated by the units under license number CBDU186152.



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## HOW THE IN-TOWER SYSTEM WORKS

In-Tower units can be mobilised offshore by crew transfer vessels or a SOV. They are designed to be lifted by turbine or vessel crane. Each unit comes with its own rigging and certification.

Once installed, the In-Tower unit operates using a cassette system. The technician takes a cassette to site, installs it into the unit and retracts it at the end of the day to take back to base for cleaning. This sealed cassette system ensures technicians have no risk of contact with waste and no waste is stored on the asset.

PWS offers a service contract to empty and recharge the cassette units at the base facility. Schedules are created based on use.

When selecting where the In-Tower unit will be positioned, we carry out an initial study to ensure walkways, escape routes and safety equipment are not obstructed.

The image opposite shows the lower tower in ORE Catapult's demonstration turbine at Levenmouth, with a space either side of the door where the unit will be installed.

Once the location is confirmed the unit can be installed by PWS technicians or our client's techs following the provided installation instructions.

## KEY FEATURES and BENEFITS

- > **Safety** – reduces transfers to a vessel
- > **Diversity** – all In-Tower units are unisex
- > **Productivity** – less downtime caused by transfers for comfort breaks.
- > In-built certified lifting frame (LOLER) and is tested under DNV standards
- > Intrinsically safe unit
- > In-tower toilet systems are available for sale only
- > Disposal, cleaning and waste management carried out by a registered body



Lower tower, ORE Catapult's demonstration turbine

## TECHNICAL SPECIFICATION

In-Tower Turbine Toilet Unit	
UNIT DIMENSIONS	Made to suit access and turbine type (0.7m – 1m)
HEIGHT	2m
UNIT WEIGHT	52kgs
LIFTING EQUIPMENT INCLUDED	5 leg webbing sling with masterlink 4 x 1t safety bow shackles with safety pins
LIGHTING	Internal LED Battery powered motion activated lights
STANDARD ACCESSORIES	Toilet roll holder Sanitiser dispenser Sanitary towel bin Sanitary towel waste bag dispenser
Unit is load tested to DNV standards and is delivered with full LOLER certification	

E & OE  
All dimensions and weights are accurate at the time of creation. Please check exact specifications of units when ordering.

Easily deployed



Safe Working Load



Leak-free tank system



Cleaned and maintained



First choice for offshore cargo carrying units, waste management, A60 modules and welfare solutions worldwide for rental and sale

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