

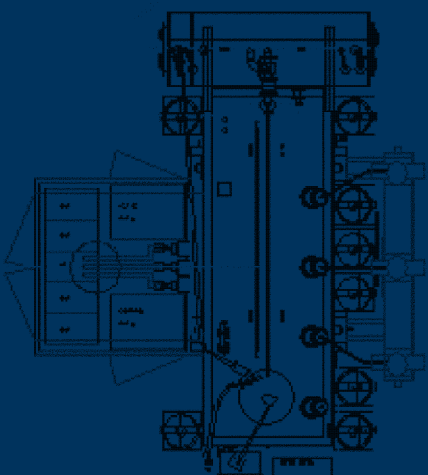
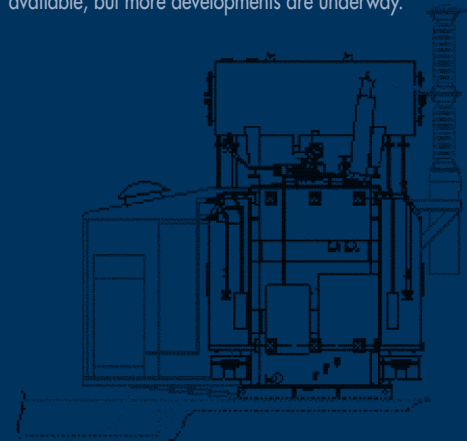
# Transformer Switch Unit

## New substation development for the wind energy industry

### ● Pauwels TSU: a compact solution for the wind energy industry

Space is at a premium in wind energy parks and economics dictate that grid connections be installed on the smallest possible footprint. Pauwels Transformer Switch Unit (TSU) is one of the most compact modular substation available and is ideally suited to the stringent demands of the wind energy industry. Up to 30% smaller than standard substations, the TSU is unusually compact because both the high and medium voltage equipment are mounted on a specially designed power transformer that drastically reduces the overall dimensions of the substation.

Currently, designs of up to 60 MVA and 170 kV are available, but more developments are underway.



# TSU

### ● Lower installation costs

Not just concerned with size, Pauwels has designed a substation around the concept of standardised parts and pre-assembly so that installation time and costs are kept low as well. All substations are pre-assembled in the factory; provision of foundation works, power, control and ground connections is all that is required for on-site installation. Even the control cables with multi-plug connectors are pre-assembled before delivery.

### ● Reduced delivery times

Using standardised parts and pre-assembly, Pauwels is able to reduce delivery times significantly - often by as much as 25% over conventional systems - cutting months off delivery times and putting your investment to work that much sooner. And because pre-testing and pre-assembly is done in the factory, weather conditions no longer have a significant impact on the delivery schedule.

### ● 50% faster installation

All pre-testing and pre-assembly is carried out at Pauwels Contracting facilities rather than on-site, so installation times are cut by as much as 50% when compared with conventional systems. Once on-site assembly and installation is complete, commissioning can be realized within a few days, enabling you to start getting a return on your investment in the shortest possible time.

### ● Proven technology

Pauwels is a leading manufacturer of transformers in Europe. The Pauwels power transformer forms the heart of the TSU substation. All auxiliary equipment of the substation is supplied by reputable manufacturers that have met the strict quality requirements set by Pauwels.



**PAUWELS**

energy is our business  
quality is our mission

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