

# CG APPLICATIONS

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**Market involved :** Energy

**Product :** PQT H

**Customer :** Engineering companies

**Subject :** Power control in windmill generators

## CUSTOMER ISSUE :

The various parameters of a windmill generator are controlled by means of a PLC.

The most important variable is the generated power, which has obviously to be maximised, but also to be limited.

In fact, if the wind is too strong, the mechanical structure can be damaged: to avoid it, the vanes have to be tipped. To keep the power generation and the whole structure under full control, it is therefore necessary to perform a very accurate measurement.

## OUR SOLUTION:

PQT H is a Smart Power Quality transducer which allows the PLC to gather the power information with a 0.5% accuracy class; it is the same class of all the other devices of the loop that controls the windmill generator.

PQT H also communicates via Modbus all the information regarding the electrical variables to an acquisition system and it is able to carry out 8 requested alarm controls.

## ACHIEVED BENEFITS:

- Combination of 1 analogue, 1 serial and 8 digital outputs.
- High accuracy class.

