

Applications in Power Utilities

The provision of accurate time is extremely important for power utilities to enable precision event time stamping to provide an historical chronological audit trail, which may be vital for safety information records. Also, it is crucial to have an accurate and reliable source for time measurement for calculating billing amounts.

- Power Stations
- Electricity Sub-Stations
- Fault Location
- Line Frequency Control
- Energy Management
- Command & Control
- Public Information Systems
- Production platforms
- Off-shore platforms
- Refineries
- Water Distribution Systems
- Chemical Plants



Our precision time and frequency standards can also **monitor the frequency of AC power** distribution grid. This allows the load on the generation or distribution network to be accurately measured so that the capacity can be increased or decreased as required, in order to fulfil current electricity demand.

Precise time can also be used as a low cost solution to the **location of faults** on long distance power lines. Traditionally this task was carried out by visual inspection of overhead power cables, either from the ground or using helicopters. Using time tagging to measure the "reflection" of a signal sent down a suspect line can pinpoint faults to within a few metres.

The provision of accurate time is also crucial for **oil, gas** and **water** industries. A trusted time source provides accurate, synchronised time to production and distribution networks to enable reliable time-stamping sequences to occur during operation.

Accurate and reliable timing plays a vital role in industrial production and distribution planning and control. It enables the effective execution of **controlled start-ups, shutdowns, pipeline closures**, and so on.

Our master clocks also provide precision event time stamping to provide an historical **chronological audit trail**, which may be vital for safety information records.

Our highly versatile products offer a cost effective means of providing accurate time to a complex, multi-vendor IT system. Due to the product flexibility, we can provide solutions whatever your requirement.



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TIME & FREQUENCY
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