



## Customer

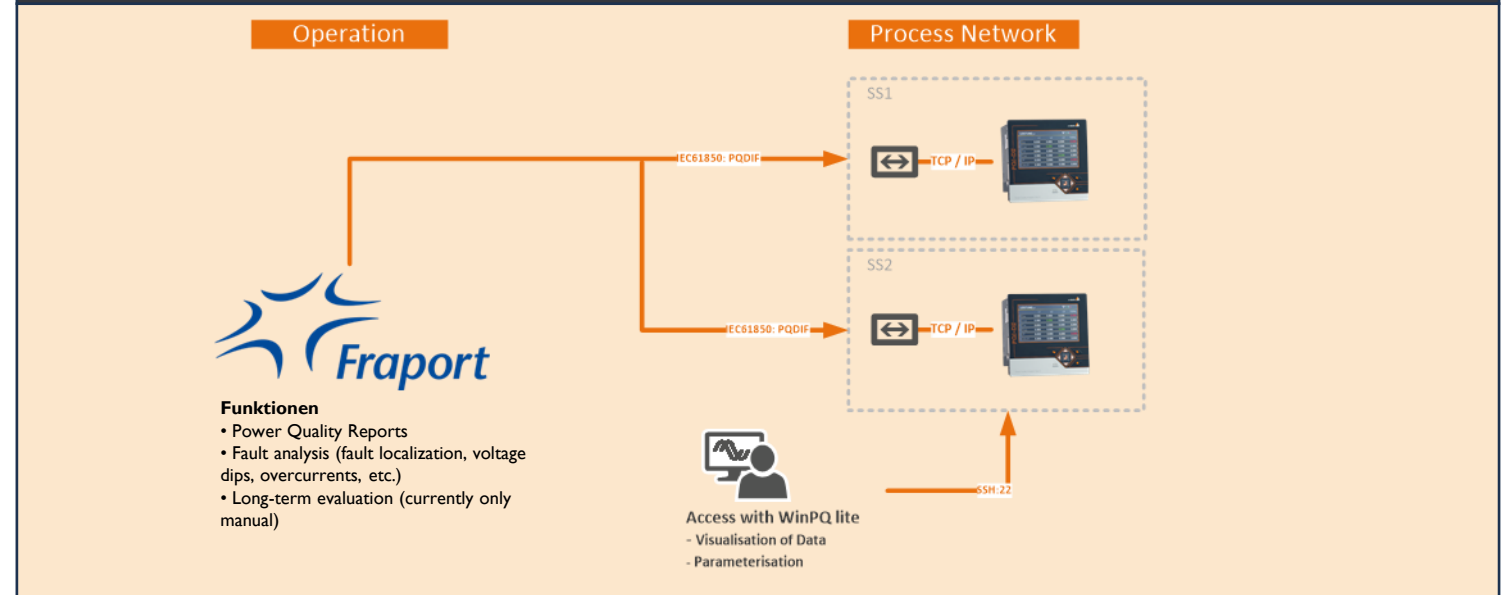
**Fraport AG**, headquartered in Frankfurt am Main, is the operating company of Frankfurt Airport. The annual absolute electrical energy consumption of Frankfurt Airport is approximately 550 GWh (as of 2019 [1]).

## Application

An additional terminal is currently being built at Frankfurt Airport with 3 piers (g, h, j). **PQI-DE** power quality analyzers are being installed here to monitor power quality and detect faults. In total, 40 devices are used for the individual substations. The devices are connected to the control system via IEC61850. In the event of a fault, the **PQI-DEs** of the substations concerned are read out manually and the measured data analyzed accordingly. As things stand at present, the **PQI-DEs** are used to perform a standard evaluation in accordance with EN50160.

A connection of the devices to the WinPQ database software has not yet been carried out at the present time, but is conceivable for the future.

## Technische Lösung A. Eberle



## Feedback Customer

The customer's argument for using **PQI-DE** power analyzers was an instrument of measurement class A incl. integrated option for IEC61850 connection. The upgradeability to a higher sampling rate was also a reason for the decision.

Installation: **40 PQI-DE**  
Customer: **Industry**  
Country: **Germany**  
Date: **2022ff**



## Sources:

- [1] Fraport Umwelterklärung 2019 Seite 22f  
[https://www.fraport.com/content/dam/fraport-company/documents/konzern/verantwortung/publikationen/umwelt/umwelterklaerungen/Umwelterkl%C3%A4rung\\_2019\\_d\\_online.pdf/\\_jcr\\_content/renditions/original./Umwelterkl%C3%A4rung\\_2019\\_d\\_online.pdf](https://www.fraport.com/content/dam/fraport-company/documents/konzern/verantwortung/publikationen/umwelt/umwelterklaerungen/Umwelterkl%C3%A4rung_2019_d_online.pdf/_jcr_content/renditions/original./Umwelterkl%C3%A4rung_2019_d_online.pdf)

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