

Success story | Leaflet

Sao Camilo Hospital, Brazil

Improving power quality for reliability and stability

Hitachi Energy's active filtering solutions promote the stability of the electrical network for industrial, commercial and hospital loads, adapting easily to the different types of disturbances that can be found in these installations.



Customer profile and challenge

Good healthcare is the basic human need. A society, organization or nation can progress and prosper only when people are healthy. For achieving and sustaining progress, a persistent technological and financial investment is needed in the infrastructure for healthcare facilities and research activities.

Centro Hospitalar São Camilo, in Ponta Grossa, Paraná State of Brazil, is an effort in the same direction. Built over nearly 10,000 square meters area, it consists of all modern healthcare and diagnosis systems, along with dedicated surgical and intensive care units.

Most digital medical devices are equipped with sensitive electronics and microprocessors. Even a minor disruption in power supply can impact the functioning of these devices, creating inaccurate readings and results. Ironically, such disruptions in power supply are caused by the operation with these same instruments. When electronic circuits operate, they introduce a kind of electric pollution called harmonics in the network, which can cause disruptions in voltage and current. Even a minor voltage change can cause incorrect display in a diagnostic machine, or a misrepresented cardiogram or X-ray, causing faulty diagnosis with serious consequences.



Active harmonic filtering system (PQFM) for Sao camilo Healthcare facility, Brazil

Solutions

Hitachi Energy supplied its active harmonic filter PQFM as a solution to this challenge. The solution can detect even a small disruption in power network, and clear them quickly, accurately and smoothly. This results into stability and reliability of power supply, enabling critical healthcare equipment to operate effectively and accurately.

With changing older demographics and lifestyle trends, smart healthcare facilities with advanced medical treatments and research are likely to become the global norm. Hitachi Energy is strongly committed to the development of reliable and sustainable power healthcare infrastructure.

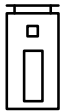
Technical data

Parameter	Value
Year of installation	2021
Type of product	PQFM Active Filters (3-wire)
Number of units	2
Output capacity	2 x 150 Mvar
Voltage	480 V
Frequency	60 Hz

Active filtering solution promoting stability and reliability in Sao Camilo healthcare facility, Brazil



Sao Camilo Healthcare facility covering 10,000 Square meters area in Brazil



Hitachi ABB Power Grid's Active harmonic Filtering solution



The Solution



Accurate & stable diagnostics



Reliable healthcare service



No stress on equipment

Hitachi Energy
100 Distribution Circle
15666 Mount Pleasant, Pennsylvania

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