SmartSights

CASE STUDY | INFRASTRUCTURE

Power to the People at Shanghai Hongqiao International Airport

上海机场 AVINEX

LOCATION
Shanghai, China

INDUSTRY
Infrastructure

WEBSITE
shairport.com/ensh

CHAMPION
Mr. Zhai

Shanghai's second-largest airport, Hongqiao International Airport (SHA) serves more than 40 million passengers per year. Located 13 km from the bustling metropolis' city center, Hongqiao airport recently completed a major renovation to Terminal 1, bringing it up to the ultra-modern standards of Terminal 2 completed in 2010. Together, the two terminals now host 22 airlines with flights to 82 destinations.

Massive power system requires around-the-clock alarm monitoring

Power requirements for this state-of-the-art transportation hub are immense. To ensure safe, continuous operation, the Shanghai Airport Authority uses an ABB MicroSCADA system paired with SmartSights WIN-911 alarm monitoring software to watch over its East zone network of power transmission and distribution systems.

Like all large airports, energy stability is paramount. But the sheer scale and complexity of Hongqiao Airport—with over 1,000 different alarms monitored—adds significant operational risks that need to be deftly managed. That makes early response to alerts crucial, so that problems don't turn into crises.

Shanghai Hongqiao International Airport Terminal 1.

> *"WIN-911's user interface is quite easy to understand and helped us a lot in on-site commissioning jobs. Even if you didn't know WIN-911 software, you will not need a long time to master it."*
>
> ***Mr. Zhai***
> *Project Engineer,*
> *Shanghai Yixun Automation Technology Co., Ltd*

Text and voice notifications delivered in real time

To ensure fast response to issues, WIN-911 sends SMS texts as well as voice call notifications directly to on duty staff as well as management when an event occurs. Escalation paths provide redundancy and added protection. The system monitors ABB switchgear and feeder and control relays for overcurrent, quick break, ground, and trip alarms at various substations.

"WIN-911's reputation for providing reliable early notice is a key component of achieving Hongqiao Airport's safety and efficiency goals," said Mr. Zhai, project engineer, whose company Shanghai Yixun Automation Technology, led the installation and integration effort.

Simplicity and tech support are key success factors

According to Mr. Zhai, WIN-911's ease of use was a primary contributor to the project's success. "WIN-911's user interface is quite easy to understand and helped us a lot in on-site commissioning jobs. Even if you didn't know WIN-911 software, you will not need a long time to master it."

He also appreciated the dedication of SmartSights' support team. "We are impressed by their support. It's like the SmartSights guys are just next door to us."

Photo credit: Markus Mainka - stock.adobe.com

SmartSights

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