



EVN HANOI

CUSTOMER

In conjunction with the national electricity company EVN, the Vietnamese Government has a 15-year investment plan in place to develop and secure a reliable and sustainable grid for electricity generation, transmission and distribution throughout the entire country. EVN Hanoi is the board within Vietnam's national electricity operator that serves the Hanoi region.

CHALLENGES

In 2014, EVN Hanoi began a project to upgrade the control and monitoring systems at 23 of its 110kV substations.

Adding substations to the grid network had historically been undertaken in a series of large turnkey projects. However, this gave EVN Hanoi very little control over the maintenance and development of its systems.

The company felt it was hostage to fortune when repairs or maintenance work were necessary. It believed that regaining control over its substation operations was essential to reduce both cost and inconvenience in the short and long term.

SOLUTION

Mr. Dao Hoang Quang, Director of the Hanoi Region Load Dispatch Center (HLDC), explains: "We looked at a number of different solutions and tested more than one. We were

very attracted to zenon because it appeared to meet all of our performance, maintenance and communication requirements."

EVN Hanoi installed zenon in parallel to an existing system at one of its 110kV substations. Mr. Dao Hoang Quang: "This test project gave us confidence in zenon and the commitment and support from the PETROLEC team. Most importantly, we were confident that our local engineers would be able to maintain the system and roll out zenon in further projects."

TECHNOLOGY

Following the successful test project, zenon was installed as the HMI/SCADA solution across 23 of EVN Hanoi's 110kV substations. This spanned a diverse ecosystem of heterogeneous hardware components.

zenon offers unparalleled flexibility in terms of hardware and software because it natively supports more than 300 communication drivers and protocols. In addition, zenon supports the energy industry IEC 60870 and IEC 61850 communication protocols – delivering secure, compliant and reliable communication from IED through to the dispatch center.

BENEFITS

Mr. Dao Hoang Quang: "We are now able to undertake engineering tasks ourselves which has a clear advantage in terms of the speed and cost of support."

zenon has been successfully rolled out to more than 30 substations within EVN Hanoi's regional power grid – going beyond the specifications of the original project. As well as providing control and supervision locally, zenon is installed at the HLDC where it provides an overview of systems.

Mr. Dao Hoang Quang concludes: "We are delighted to have found, in PETROLEC and COPA-DATA, partners who are able to support our plans for developing a sustainable power grid."

EVN HANOI HANOI REGION LOAD DISPATCH CENTER

www.evnhanoi.vn

SYSTEM INTEGRATOR:

PETROLEC

B5 Block 19, Dinh Cong town,
Hoang Mai district
100000 Hanoi city
Vietnam

COPA-DATA Headquarters

Karolingerstr. 7b

5020 Salzburg

Austria

www.copadata.com

sales@copadata.com

FURTHER INFORMATION:

www.copadata.com/energy