

The background of the slide features a series of high-voltage electrical pylons and power lines stretching across a body of water towards a horizon. The scene is captured during sunset or sunrise, with a warm orange and yellow glow. A single sun is visible in the center of the horizon, partially obscured by the text. The pylons are silhouetted against the bright sky, and their reflection is visible in the calm water below.

PT. MEGA VOLT PERKASA

Company Profile

BACKGROUND

PT. MEGA VOLT PERKASA was established in 2022 to provide specialised work services in the field of transformers such as installation, testing, and oil purification.

We have over 40 years experience in the transformers industry, and offer unique services such as providing power maintenance consulting services and transformer distribution effectively; analyze transformer problems comprehensively; new installation (Erection) in accordance with Safety and Standard operation procedures ; and carry out Preventive Maintenance so that the Transformer can function normally with a long life.

STATE OF THE ART NEW TECHNOLOGY

PT. MEGA VOLT PERKASA always prioritizes customer satisfaction by performing work services professionally, using the best and most up-to-date work equipment machines to provide accurate and precise quality test results. Some of the work tools we use are as follows:

- The Oil Purification Machine uses the Wilhem Hedrich GmbH brand from Germany.
- The Dissolved Gas Analysis machine uses the ECH Elektrochemie Halle GmbH - Energy Support brand from Germany.
- The transformer testing machine uses the Omicron Electronics GmbH brand from Austria.
- The Infra Red Testing Machine uses the Fluke brand from the United States.

PURIFICATION

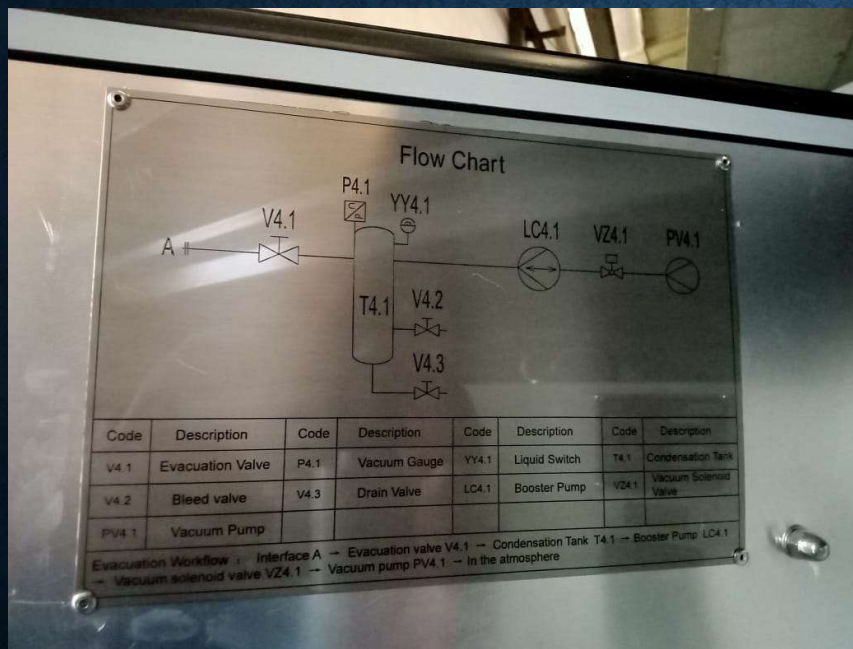
The "Hedrich" filter machine that we use is a machine designed by a German company that has decades of experience and always innovates with the latest technology. The machine is able to purify the condition of transformer oil from residues / dirt to sizes as small as 1 micron, reduce the moisture content of the transformer oil with even heat so as not to damage the characteristics of the transformer oil, and remove gases in the internal transformer so that it is always in a vacuum condition.

We provide 2 machine capacities of 2000 Liters / Hour and 4000 Liters / Hour. The capacity of this machine will be adjusted to the capacity of the transformer so that the processing can be carried out efficiently without damaging the internal components of the transformer itself.

PURIFICATION MACHINE



VACUUM



BREAKDOWN VOLTAGE



DGA (DISSOLVED GAS ANALYSIS)

The ECH Elektrochemie Gmbh machine - Energy Support machine that we use comes from Germany with the latest technology that fully works automatically and uses a standard laboratory so that the results obtained are accurate. This tool is superior to the On-Site DGA machine where the accuracy of the results can be affected due to shocks during mobilization and weather factors.

We also ensure the condition of the oil and sample collection until the test time is similar to that in the transformer without contamination, by taking samples in accordance with standard procedures and using special plots according to IEC (International Electrotechnical Commission) Standards.

DGA Our test will produce 11 important gases to determine the condition of the transformer, some of which are H₂ (Hydrogen), CO (carbon monoxide), CH₄ (Methane), etc. Where the sensitivity of our test kits can reach 0.1 PPM (Parts Per Million) which is very suitable for conducting routine tests and new transformers to the aged.

DISSOLVED GAS ANALYSIS



TESTING TRANSFORMER

We can do tests from distribution transformers to power transformers, one of the best test tools we use is Omicron Electronics GmbH from Austria.

Some of the transformer tests that we have often done are: BDV, Water Content, Insulation resistance, polarization index, turn ratio, no-load, winding resistance, dirana, tan delta, and SFRA. The services we go beyond transformer maintenance but also root cause analysis for quick and easy resolution.

We also ensure that the test kits we use are in good condition by calibrating them regularly according to the specified time.

TRANSFORMER CHARACTERISTIC



TAN DELTA



INSULATION RESISTANCE



INVESTIGATION INFRARED

When electrical devices are being functioned, there will be electric current flowing through electronic components such as busbars, cables, lugs, straight connectors and so on. These electrical process will generate heat to the components. Therefore Infrared investigation will help to determine whether the installed electrical device has been functioning properly, improper installation would generate excessive heat which can damage the device or its internal components, and in the extreme case even causing fires.

Therefore, we provide infrared investigation services to determine the temperature of electrical components that are operating under normal conditions, and provide the necessary advice in the event of overheating or exceeding internationally applicable standards. Such test enable the electrical components to operate safely and with maximum shelf lives.

TAN DELTA CABLE

VLF (Very Low Frequency) Tan Delta testing is one the best method to evaluate the condition of cables insulation.

Measurement dissipation factor with 0.1 Hz VLF truesinus® provides different information from aging of Mass-Impregnated and PE/XLPE paper cable isolation. Measurement dissipation factor is capable to analyze cable from conditions that are still good, conditions that are not good due to humidity or sediment, to cable conditions that are very bad. This is intended so that consumers can prioritize the need for proper cable replacement from information on actual quality conditions, not just from the age.

Endurance Test with dissipation factor performed on the cable, can produce accurate data and comprehensive assessments of the cable condition. In addition, the test on the cable is carried out with minimum load and duration of the test is short enough so that it does not cause side effects after testing.

ERECTION TRAF0

Erection Trafo



Bushing installation

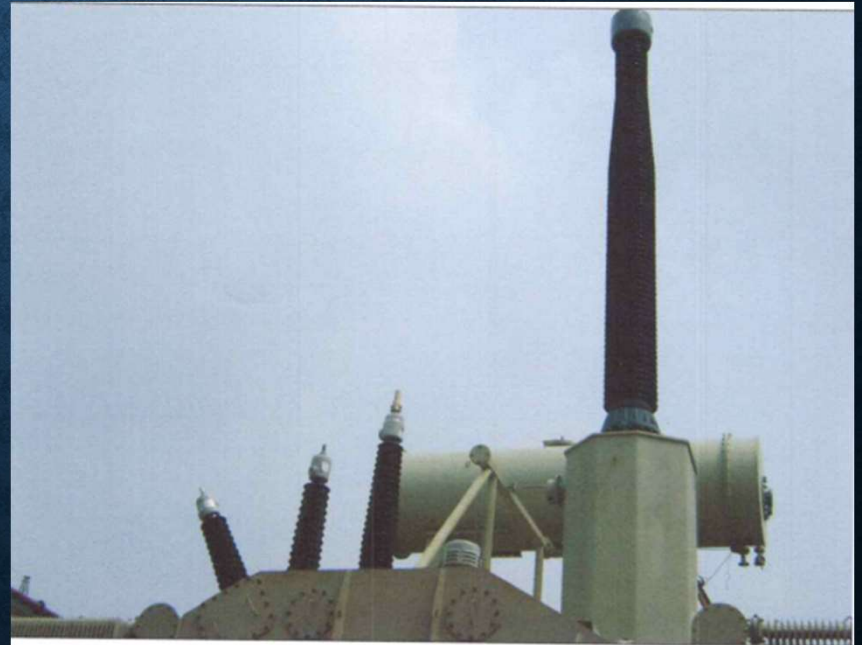


ERECTION TRAFO

Conservator installation



Bushing installation



ERECTION TRAF0

Cooling Radiator installation



Characteristic and Tan Delta transformer testing



VISION & MISSION

VISION:

Become a pioneer in Transformer service industry.

MISSION:

Build highly trained team with good ethical behavior to produce healthy and safely working environment, which provides excellent service for fulfil Customer's needs .

OUR VALUE

Guide: we will give our best recommendation from our experiences to set up your new Electrical Line System.

Restore: we will repair your transformer and Electrical Panel back to the original condition.

Economize: We will give competitive price in order to minimize your cost in maintaining the electrical system.

Eludicate: We will indicate your electrical problems by performing the accurate test and complete with the proper overhaul.

Nurture: We will keep our team bold, by giving them a lot more experiences on site and giving them trainings to improve their performance.

QUOTES

“Our guidelines are to provide professional services and high quality of work in order to satisfy all business partners”

-Roni Salim, Main Director

“Maintain the trust of our business partners by working honestly and straight. Our concept is to take care of consumer electrical components like taking care of our own business”

- Tanri Bandini, Director

“Maintain harmony between employee can give optimal results, always take care communication and work relationship between each other ”

- Sudiyono , General Manager

CONTACT

If you have any concerns about transformer , electrical maintenance or any other related issue please don't hesitate to contact us.

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