

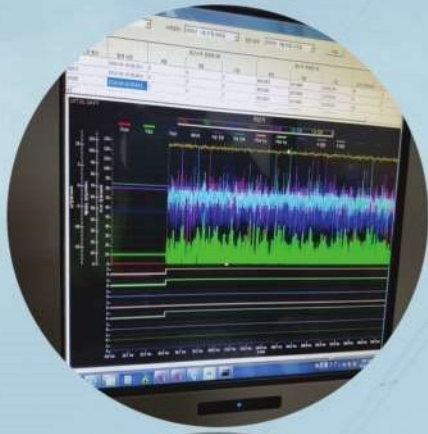


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DIAGNOSIS and MONITORING For Power System



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H·I·S·T·O·R·Y

- 2018** **Apr.** CEO Hong Sung-jun won the Anyang Mayor's Award
- 2017** **Jun.** Assign a special diagnosis partner for the Korea Electric Engineers Association
- 2016** **Dec.** CEO Hong Sung-jun won the National Assemblymen Lee Jong-geol Award
 Dec. Shinbundang Line Extension (Jeongja ~ Gwangyo) Double Electric Railway Private Investment Project "Power Quality Test"
 Jul. CEO Hong Sung-jun Appointed as a member of the KEEA
 Jan. CEO Hong Sung-jun Appointed as a member of the Neotrans
- 2015** **Jan.** Obtain INNO - BIZ [Seoul Regional Small Business Administration Grade A]
 Jun. Acquired patent for partial discharge diagnosis device and method
 May. Acquired patent for safety alarm system for switchboards
 Feb. CEO Hong Sung-jun won the Seoul Special Mayor's Award
- 2014** **Feb.** Register for Hyosung Heavy Industries Partner
 Apr. ISO 9001/14001 certification
 Apr. Public Procurement Service National Competition Public Bidding Competition Tender Participation Certification
- 2013** **Apr.** Certification of Direct Production Verification Certificate by Small and Medium Business Association
 Aug. Obtained patent for circuit breaker operation monitoring device with learning function
 Jun. Venture Business Certification
- 2011** **May.** Delivered IEC61850 communication performance evaluation tool by Korea Electrotechnology Research Institute
 Dec. Participation of KEPCO consortium " IEC 61850 Digital Substation Prevention Diagnosis System "
- 2010** **Aug.** Changed the name of Wonbang HighTech Corporation
- 2009** **Dec.** Establishment of Marine HighTech Systems Corporation (move into Korea Marion And ocean University's A start-up center)



PRODUCT LIST

GIS and High Pressure Cable monitoring diagnostic system and devices

- 01 GIS Partial discharge diagnostic system PDM
- 02 Ground Cable Partial discharge diagnostic system CDM
- 03 Breaker Motion monitoring system CBM
- 04 SF6 Gas monitoring system GDM

High voltage transformer diagnosis and monitoring

- 01 Transformer Partial discharge diagnosis and monitoring system TDM
- 02 Transformer intelligent cooling control monitoring system TDM-TM
- 03 Transformer specific hydrogen gas monitoring system InsuLogix H
- 04 Bushing online monitoring system InsuLogix B

Generator diagnostics and monitoring

- 01 Generator partial discharge temperature monitoring system MDM-4/UT
- 02 Generator partial discharge monitoring system MDM-4/U

High Voltage Equipment Portable Diagnostic Equipment

- 01 Portable partial discharge diagnostic system PDA-8U
- 02 Portable partial discharge diagnostic system(extended) PDA-3P
- 03 Portable Breaker Motion Monitoring System SGA-100

High Voltage Equipment Portable Diagnostic Equipment

- 01 Intelligent Integrated monitoring system IMS



Power Plant Diagnostic Engineering WONBANGHIGHTECH

We are trying to secure stable and reliable electric power facilities with human and technical know-how accumulated as a precision electric power equipment diagnosis company. We will improve the necessity and superiority of diagnostic technology through continuous new concept diagnosis and application technology, We will do our best to provide all our employees.

Diagnosis of power equipment performance (uninterruptible and power failure)

- GIS performance diagnosis (partial discharge and DOBLE insulation power factor, SF6 purity, moisture, SO2 diagnosis)
- Transformer performance diagnosis (partial discharge and gas analysis, DOBLE insulation factor, SFRA diagnosis)
- Performance evaluation of switchboard (partial discharge and insulation resistance)
- Cable performance diagnosis (partial discharge and DOBLE insulation power factor, VLF diagnosis)
- Circuit breaker performance diagnosis (partial discharge and operation mechanism diagnosis)
- Diagnosis of relay performance (operation characteristics and interlocking test of circuit breaker)
- Power quality performance diagnosis (voltage, current, harmonics, etc.)
- Diagnosis of NOISE (Analysis of cause of malfunction occurring in the field and suggest improvement plan)

Diagnostic Certification Status



Diagnosis of electric power facilities

- Designated as a specialized partner for specialized diagnosis of KEEA
- China Hynix plant 25kV high-voltage / high-voltage switchgear partial discharge live wire diagnosis
- Analysis of oil gas analysis in airport railway inflow transformer
- Dongbu Steel Co., Ltd. Dangjin factory 66kV Extra High Voltage / High Voltage Switchboard Partial discharge live wire diagnosis
- Dongbu Steel Co., Ltd. Dangjin factory pipe inflow transformer partial discharge live wire diagnosis
- Dongbu Steel Co., Ltd. Dangjin factory 66kV Extra high voltage / high voltage cable Partial discharge live wire diagnosis
- Dongbu Steel Co., Ltd. Dangjin Factory 66kV noise solution diagnosis
- Dongbu Steel Co., Ltd. Dangjin factory 66kV VCB precision diagnosis (35 places)
- Jeonju Paper Co., Ltd. 170kV GIS Partial discharge live wire diagnosis
- Boowuter Korea Co., Ltd. 170kV Power facilities live wire and power failure diagnosis
- Boatower Korea Co., Ltd. 170kV power cable live wire and power failure diagnosis
- Boatower Korea Co., Ltd. High voltage motor live wire and power failure diagnosis
- Power Quality Test and Diagnosis of Electric Railway in the sinbundanglline whole area (Gangnam-Gwanggyo Station)
- Precision diagnosis of electric facilities in Shinbundangline whole area (Gangnam-Gwanggyo Station) and others
- Korea Railroad Co., Ltd.. Breaker operating characteristics and partial discharge diagnosis
- Incheon International Airport Railway Co., Ltd. Breaker operation characteristics and arrester diagnosis, SF6 gas analysis diagnosis



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