
HANBIT
POWER TECH

WITH YOU HANBIT

Our company, after having commenced our business as an engineering company in the area of electrical engineering, are striving to put efforts to become an integrated and specialized engineering company with business areas including electrical, civil engineering, construction and machinery on the basis of the experiences accumulated while executing an extensive range of power generation related projects.

We are steadfastly advancing towards the status of an outstanding company capable of executing a wide range of services ranging from design, supervision and testing of various devices, through to commissioning on the basis of resolute faith and reliability as we are equipped with extensive experience and expert engineers skilled in the areas of electricity and automatic control of industrial and construction facilities.

Meanwhile, we are proud that we are making advances in our works including analysis and diagnosis of various electrical systems and disasters through our specialization in the area of safety diagnosis of electrical facilities by means of unsparing investment and education.

We shall continue to ardently put efforts into the foundation of sincerity, spirit of challenge and creativity. Accordingly, we seek your continued interest and guidance.

President & CEO Moon-sig Kang

COMPANY HISTORY

2010's

2016

SMEs innovation certification(MAIN-BIZ)
Electrical surveillance business registration
- General surveillance business (Seoul S-1-441)

2015

Registered as 5 Power Plant Companies qualified maintenance company
ISO 14001:2009 Recognition acquired

2014

ISO 9001:2008 Recognition Change

2013

Agreement partnership with SK E&C
Agreement partnership with SAMSUNG ENGINEERING

2012

Registered as Engineering business license
Agreement partnership with HYUNDAI ENGINEERING
Registered as Manufacturing business license
Agreement partnership with DAELIM INDUSTRIAL
Agreement partnership with HYOSUNG

2011

ISO 9001:2008 Recognition Change
Registered as KOMIPO qualified maintenance company
Registered as KOWEPO qualified maintenance company
Registered as KOSPO qualified maintenance company
Registered as KOEN qualified maintenance company
Patent application
- Method of power measurement and Power instrument

2010

Increase the capital amount as US$700,000
Registered as Energy Saving Specialized Company (ESCO)

COMPANY HISTORY

2000's

2009

Registered as EWP qualified maintenance company
Registered as Agency - ABB Korea

2008

SMEs innovation certification(INNO-BIZ)
Patent application
- Circuit breaker with the passing heat cutoff function

Registered as the renewable energy company
Registered as Korea Gas Technology Corporation partner
ISO 9001:2008 Recognition acquired

2007

The company name was changed into HanbitPowerTech Inc.

2006

New technology design treaty / KD POWER Inc.
Industry – University Collaboration / Korea Polytechnics

2005

Company name was changed to Woongbi Inc.
after merging Chegim electrical Inc.
Electrical construction business registration (Kyungbuk-00888)

2004

Electrical surveillance business registration
- Specialized surveillance business (Seoul S-2-232)

Electrical design business registration
- Professional design business (Seoul E-2-270)

2003

The establishment of Woongbi engineering
Professional Engineers office opened/Power distribution

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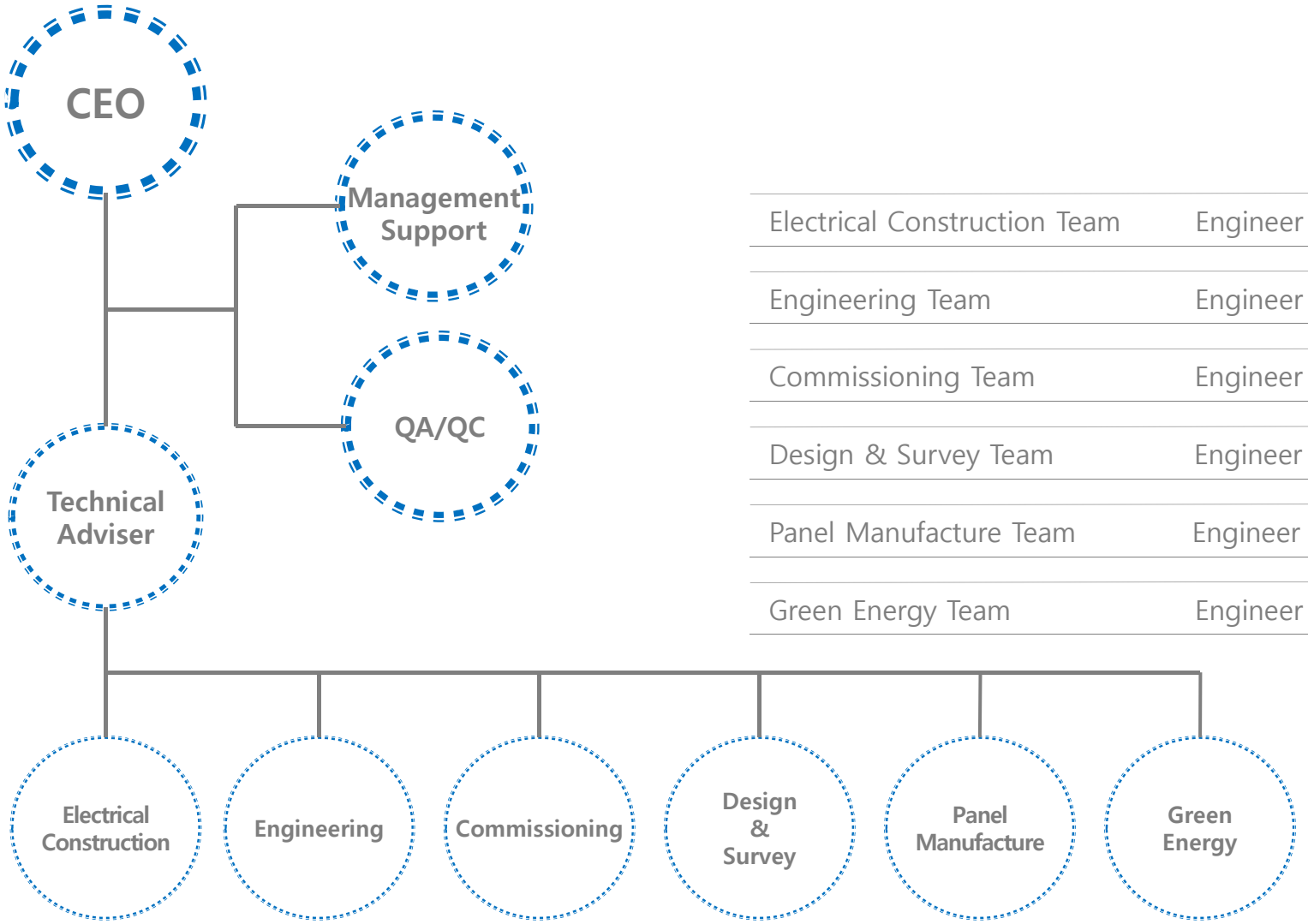
ORGANIZATION CHART



Electrical Construction Team	Engineer : 4
Engineering Team	Engineer : 4
Commissioning Team	Engineer : 28
Design & Survey Team	Engineer : 5
Panel Manufacture Team	Engineer : 3
Green Energy Team	Engineer : 3

CERTIFICATES

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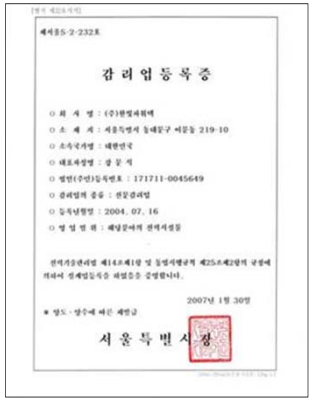
BUSINESS LICENSE

PROFESSIONAL ENGNEER OFFICE OPENING

ELECTRICAL CONSTRUCTION BUSINESS -1

ELECTRICAL CONSTRUCTION BUSINESS -2

DESIGN BUSINESS REGISTRATION



SUPERVISION REGISTRATION

RENEWABLE ENERGY ENTERPRISE REGISTIRATION

LICENSE OF BUSINESS ESCO

PLANT REGISTRATION

ISO 9001-2008

CERTIFICATES

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PATENT - MOLDED CASE CIRCUIT BREAKER

PATENT - MOLDED CASE CIRCUIT BREAKER

PATENT - POWER INSTRUMENT

CITATION

R&D Department

INNO-BIZ

MAIN-BIZ

5 POWER PLANT COMPANIES QUALIFIED MAINENANCE COMPANY-1

5 POWER PLANT COMPANIES QUALIFIED MAINENANCE COMPANY-2

ISO 14001:2009

CERTIFICATES

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AGREEMENT
PARTNERSHIP WITH
SAMSUNG
ENGINEERING

ENGINEERING
BUSINESS LICENSE

AGREEMENT
PARTNERSHIP WITH
HYUNDAI ENGINEERING

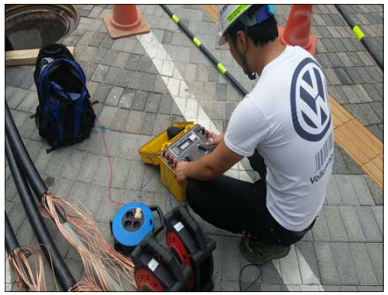
P300 PROJECT

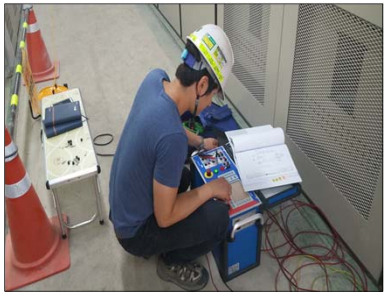
PARTNERSHIP
WITH ABB KOREA

ENGINEERING Commissioning Test

◎ Review for Documents & Drawings
◎ Protection Relay Function Test
◎ CT Characteristic Test (Turn Ratio, Knee Point, Polarity and Insulation Resistance)
◎ PT Characteristic Test (Turn Ratio, Polarity and Insulation Resistance)
◎ Circuit Breaker Operation Test (Close Time, Open Time, Time Difference Phase to Phase, Insulation Resistance, Vacuum Test, Contact Resistance)
◎ Transformer Characteristic Test (Vector Group, Turn Ratio, Polarity and Insulation Resistance, %Impedance)
◎ Insulation Oil Characteristic Test Hipot, Acid Value)
◎ Mechanical Protection Devices Interlock Test
◎ AC/DC Sequence Test
◎ Cable Hipot Test
◎ Measuring Grounding Resistance





ABOUT EXPERIENCE

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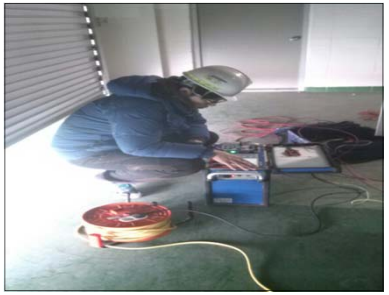
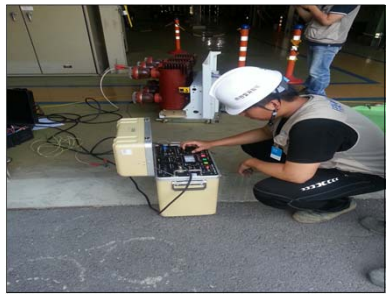
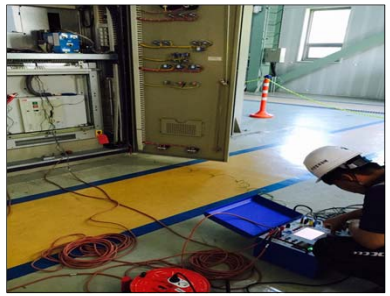
Commissioning Test

Jangmoon CCPP ECMS	345kV, 2GW	ABB Korea	2016.01 ~ On going
Wonju Combined Heat & Power Plant	22.9kV, 1.43MW	SK E&C	2015.01 ~ 2015.05
Bukpyeong Thermoelectric Power Plant	345kV, 1.4GW	STX Heavy Industries	2014.11 ~ 2016.06
Hanam Combined Heat & Power Plant	154kV, 465MVA	ABB Korea	2014.10 ~ 2014.11
Godeok Green Power Fuel Cell	22.9kV	SK E&C	2014.05 ~ 2014.09
Gunjang Energy#3	154kV, 145MW	ABB Korea	2013.11 ~ 2013.07
Daegu CES	154kV, 436MVA	Lotte E&C	2013.09 ~ 2013.10
Daejeon Hakha CES	22.9kV, 10.3MVA	Daekwang E&C	2014.11 ~ 2014.12
Yangju Okjeong ESS Project	154kV, 600MVA	Hyosung	2012.11 ~ 2013.11
Samnangjin Pumped Storage Hydroelectric Plant	154kV, 600MW	Vamp Korea	2012.10 ~ 2012.10
Byulnae&Minrak ESS ECMS	154kV, 126MVA	Hyosung	2012.01 ~ 2013.08
Sinjeong Section 3 CES	22.9kV, 18MW	Wookyung Elec-Tech	2010.12 ~ 2010.12
Pangyo Combined Heat & Power Plant	154kV, 153MVA	Lotte E&C	2010.07 ~ 2010.11
Incheon Posco Power: CCPP 5&6 unit	345kV, 1200MW	Samchang	2010.07 ~ 2010.08
Suwan Energy in Gwang-ju	154kV, 45MVA	Keangnam Enterprises	2009.10 ~ 2010.03
Songdo Combined Heat & Power Plant	154kV, 222MVA	Hyosung	2009.09 ~ 2010.02
Gwangyang Landfill Gas Power Plant	154kV, 85MW	Enginetech	2008.02 ~ 2010.03
Metropolitan landfill Gas Recycling Plant	154kV, 55MW	Eco Energy Holdings	2006.08 ~ 2006.08

ENGINEERING Periodic Test

◎ Protection Relay Function Test
◎ CT Characteristic Test (Turn Ratio, Knee Point, Secondary Side Injection Test, Polarity and Insulation Resistance)
◎ PT Characteristic Test (Turn Ratio, Secondary Side Injection Test, Polarity and Insulation Resistance)
◎ Circuit Breaker Operation Test (Close time, Open time, Time Difference Phase to Phase, Insulation Resistance)
◎ Transformer Characteristic Test (Vector Group, Turn Ratio, Polarity and Insulation Resistance)
◎ Mechanical Protection Devices Interlock Test
◎ AC/DC Sequence Test
◎ Cable Hipot Test
◎ Measuring Grounding Resistance

ABOUT EXPERIENCE

Periodic Test

Ansan Combined Heat & Power Plant	154kV	ASUDI	2016.05 ~ 2016.05
Daeryun Combined Heat & Power Plant	154kV, 555MW	Daerun Power	2016.04 ~ 2016.05
Incheon Total Energy Company	154kV, 222MVA	Incheon Total Energy	2016.03 ~ 2016.04
Incheon Airport Energy Prot. Relay	154kV, 127MW	Incheon Airport Energy	2016.02 ~ 2016.11
Metropolitan landfill gas recycling plant	154kV, 55MW	Eco Energy Holdings	2015.03 ~ 2015.04
Byulnae Energy	154kV, 126MVA	Byeollae Energy	2015.04 ~ 2015.05
Incheon Airport Energy MV & LV	154kV, 127MW	Incheon Airport Energy	2015.03 ~ 2015.05
Sewage Treatment Center	22.9kV, 3MW	KDHC	2015.02 ~ 2015.03
Daejeon Hakha CES	22.9kV, 10.3MVA	Choongnam City Gas	2015.01 ~ 2015.02
TPP Combined Heat & Power Plant	22.9kV, 18MW	TPP	2015.06 ~ 2015.07
Yeongheung Wind Power Plant	22.9kV, 16.5MW	Korea South-East Power	2015.05 ~ 2015.06
Gwanggyo heat cogeneration power plant	154kV, 127MW	ABB Korea	2014.09 ~ 2014.10
Saemangeum PJT Prot. Relay	154kV, 320MW	Hyosung	2014.08 ~ 2015.07
Pangyo heat cogeneration power plant	154kV, 153MVA	ABB Korea	2014.06 ~ 2014.06
Incheon Total Energy Company	154kV, 222MVA	Incheon Total Energy	2014.05 ~ 2014.06
Gyeonggi CES Combined Heat & Power Plant	22.9kV, 18MW	Gyeonggi CES	2013.07 ~ 2013.07
KDHC Mapo Branch	22.9kV	KDHC	2013.04 ~ 2013.05
Daesan CCPP	154kV, 465.8MW	CGNPC	2012.11 ~ 2012.12
Cheongsu CES	22.9kV, 31.5MVA	Jungbu City Gas	2011.09 ~ 2011.10
Gwangyang Landfill Gas Power Plant	154kV, 85MW	CEV	2011.10 ~ 2011.10
Gyeonggi CES Combined Heat & Power Plant	22.9kV, 18MW	Gyeonggi CES	2011.04 ~ 2011.05

ENGINEERING System Study

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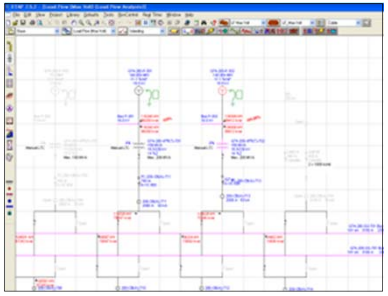
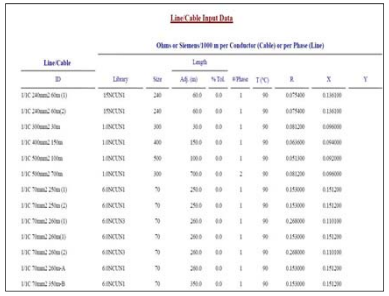
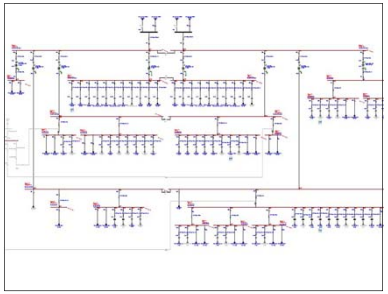
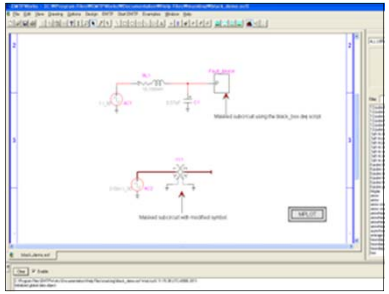
- Short-Circuit Analysis
- STAR Device Coordination Analysis
- Arc Flash Analysis
- Load Flow Analysis
- Unbalanced Load Analysis
- Motor Starting Analysis
- Transient Stability Analysis
- Generator Start-Up
- Harmonic Analysis
- Optimal Power Flow
- Reliability Analysis
- DC Short-Circuit Analysis
- DC Load Flow Analysis
- Optimal Capacitor Placement
- Transformer MVA Sizing
- Transformer Tap Optimization
- Battery Sizing and Discharge
- Dynamic Model









ABOUT EXPERIENCE

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POWER SYSTEM STUDY

Chuncheon Power Plant	22.9kV, 3MVA	Dongbu Construction	2016.05 ~ 2016.05
Gunjang Energy#3	154kV, 145MW	eTEC E&C	2016.04 ~ 2017.06
Hamon Korea Relay Coordination	154kV, 1.2GW	Hyosung	2016.02 ~ 2016.03
Yanbu-3 Project in Saudi	380kV, 3.9GW	Hyosung	2016.02 ~ 2016.12
POCR Early Phase Package-1 Project	6kV (MV)	Daeshin Engineering	2015.01 ~ 2015.12
Sululta-Gebreguracha substation in Ethiopia	400kV	Hyosung	2014.08 ~ 2015.02
Shaybah CPF Expansion Project	380kV, 1.4GVA	Samsung Engineering	2014.09 ~ 2014.09
Malaysia Fast Track 3A	500kV, 1GW	Daelim Industrial	2013.12 ~ 2017.09
Wasit Cogen & Steam Gen in Saudi		Samsung Engineering	2013.07 ~ 2013.07
YPFB Ammonia in Bolivia	11kV, 50MW	Samsung Engineering	2013.05 ~ 2014.07
JZR Power System Study	380kV	SK E&C	2013.04 ~ 2013.04
Jazan Refienry Marine Terminal Project in Saudi	380kV	Daeshin Engineering	2013.03 ~ 2016.04
Shaybah NGL Power Generation	380kV, 1.4GVA	Samsung Engineering	2013.01 ~ 2013.08
Termotasajero in Columbia	230kV, 435MVA	Wonwoo Engineering	2013.01 ~ 2015.09
Wasit PJT – PKG#4	380kV	SK E&C	2013.01 ~ 2016.01
Wasit PJT – PKG#3	380kV	SK E&C	2013.01 ~ 2014.03
Rabigh power station in Saudi		SPE	2012.12 ~ 2014.08
Rutenberg 1&2 FGD in Israel		SPE	2012.12 ~ 2013.12
Old Harbour CCPP in Jamaica		Daelim Industrial	2012.11 ~ 2014.08
Novelis Korea Aluminu	154kV	Daelim Industrial	2012.01 ~ 2013.06
Shoaiba Power Plant in Saudi	380kV, 844MVA	Daelim Industrial	2012.01 ~ 2014.12

ENGINEERING Protection Relay Setting Calculation & Review

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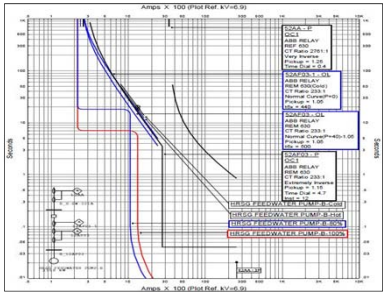
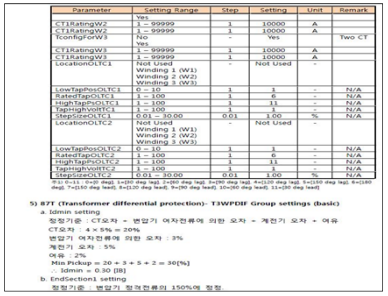
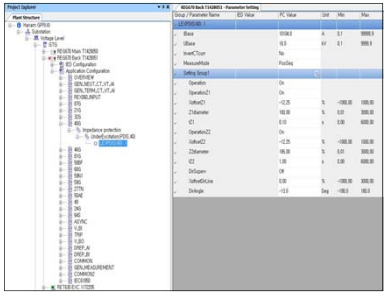
- T/L Protection
- GIS Protection
- Generator Protection
- BUS Protection
- Step-up Transformer Protection
- Unit-Aux Transformer Protection
- MV Motor Feeder Protection
- Incoming Protection
- Bus-tie Protection
- Load center Protection
- Emergency Diesel Generator Protection





Parameter	Setting Range	Step	Setting	Unit	Remark
CT1RatingW2	1 – 99999	1	10000	A	
CT1RatingW2	1 – 99999	1	10000	A	
TconfigforW3	No Yes	-	Yes	-	Two CT
CT1RatingW3	1 – 99999	1	10000	A	
CT1RatingW3	1 – 99999	1	10000	A	
LocationOLTC1	Not Used Winding 1 (W1) Winding 2 (W2) Winding 3 (W3)	-	Not Used	-	
LowTapPosOLTC1	0 – 10	1	1	-	N/A
RatedTapOLTC1	1 – 100	1	6	-	N/A
HighTapPosOLTC1	1 – 100	1	11	-	N/A
TapHighVoltTC1	1 – 100	1	1	-	N/A
StepSizeOLTC1	0.01 – 30.00	0.01	1.00	%	N/A
LocationOLTC2	Not Used Winding 1 (W1) Winding 2 (W2) Winding 3 (W3)	-	Not Used	-	
LowTapPosOLTC2	0 – 10	1	1	-	N/A
RatedTapOLTC2	1 – 100	1	6	-	N/A
HighTapPosOLTC2	1 – 100	1	11	-	N/A
TapHighVoltTC2	1 – 100	1	1	-	N/A
StepSizeOLTC2	0.01 – 30.00	0.01	1.00	%	N/A



ABOUT EXPERIENCE

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Protection Relay Setting Calculation & Review

Yeongnam LNG Power Plant	154kV, 470MW	Hyosung	2016.05 ~ 2016.11
Myeongji ECMS	22.9kV	Hyosung	2016.04 ~ 2016.04
Malaysia Fast Track 3A	500kV, 1GW	Daelim Industrial	2016.02 ~ 2017.09
Suseo Heat Source Facilities	22.9kV	Kolon Global	2015.11 ~ 2015.12
Seomjingang Hydroelectric Power Plant	154kV, 40MVA	LSIS	2015.09 ~ 2016.06
Incheon Airport Energy	154kV, 127MW	Incheon Airport Energy	2015.08 ~ 2015.11
Hadong Thermoelectric Power Plant	345kV, 4GW	Hyosung	2015.01 ~ 2015.04
KDHC Heat Supply Facilities		KDHC	2015.11 ~ 2015.12
Hanam Combined Heat & Power Plant	154kV, 465MVA	Nasan Electric Industries	2014.04 ~ 2014.08
Angang Incinerartion Plant	22.9kV, 2.8MW	Hyosung	2014.12 ~ 2015.02
Osan Combined Heat & Power Plant	154kV, 436MW	Hyosung	2014.12 ~ 2015.04
Busan Jung kwan Energy	345kV, 1.8GW	Hyosung	2014.12 ~ 2016.06
Saemangeum Power Plant		eTEC E&C	2014.11 ~ 2014.12
Seo Incheon Thermoelectric Power Plant	154kV, 1800MW	ABB Korea	2014.05 ~ 2014.05
Ansan Combined Heat & Power Plant	154kV, 62.6MW	Kwangmyung Electric	2014.04 ~ 2014.06
Taean Thermoelectric Power Plant	345kV, 1.05GW	Hyosung	2014.02 ~ 2016.12
Incheon Airport Energy	154kV, 127MW	Incheon Airport Energy	2014.01 ~ 2014.02
Seo Incheon Thermoelectric Power Plant	154kV, 1800MW	ABB Korea	2013.05 ~ 2013.05
Sejong Happy City	154kV, 690MVA	ABB Korea	2013.03 ~ 2013.03
Sejong Happy City Combined Heat & Power Plant	154kV, 530MW	ABB Korea	2013.01 ~ 2013.02
Ye-cheon Pumped Generation Power Plant	345kV, 800MW	Hyosung	2010.06 ~ 2010.08

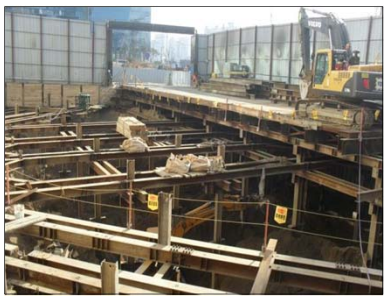
COMMISSIONING Commissioning for Plant

Commissioning refers to the confirmation of the operational situation on the linked operation between each of the devices and facilities of various auxiliary facilities including electrical, chemical, mechanical, measurement control and fire extinction facilities as well as the overall functions as a plant by operating the relevant facilities for a prescribed period of time following the completion of the installation works at a power generation plant and other plants.

In addition, it is aimed at setting to enable optimal operational conditions by detecting the initial breakdown and inappropriate elements of maintenance of each of the devices in advance, and to allow harmonious maintenance after the commencement of normal operation.



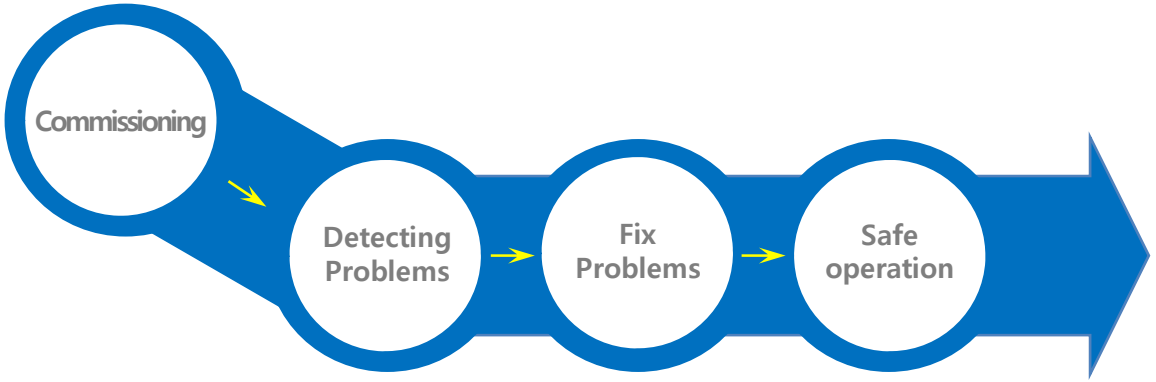


Quality management and Necessity of Commissioning

It is possible to secure the safe operation of the power generation plant following the completion of construction of the plant by detecting problems that occur at the state of the commissioning and problems anticipated at the time of operation of the power generation plant in a timely manner, and taking appropriate measures for improvement of such problems. For this purpose, the quality management of a commissioning is particularly important.

That is, it is the process of confirming the soundness, functionality and safety of the buildings, and devices and facilities constructed and installed by executing tests on all the devices and facilities, and a commissioning of the systems and power generation plant prior to the commencement of commercial power generation. This is an essential procedure that must be executed in order for the commercial operation of the power plant.



COMMISSIONING Process

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- Pre-Inspection & Study
- Individual Commissioning
- Comprehensive Commissioning
- Final Test
- Operator Training
- Completion
- Commercial Operation

ABOUT EXPERIENCE

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Proposal Engineering

UAE FRP Refinery Plant	Fujairah	2014.01 ~ 2014.01
Malaysia Rapid#8 Refinery Plant	Petronas	2013.09 ~ 2014.02
Saudi ASU Refinery Plant	Aramco	2013.10 ~ 2014.02
Kuwait MMA+PMMA Petro Chemical	SAMEC	2013.09 ~ 2013.10
Saudi Rumaitha / Shanayel Facilities	ADCO	2013.07 ~ 2013.09
Kuwait MAH Refinery Plant	KNPC	2013.06 ~ 2013.10
Kuwait CFP Refinery Plant	KNPC	2010.05 ~ 2013.08
Saudi LasTanura CFAP Petro Chemical	Aramco	2013.05 ~ 2013.07
Saudi DAP / NPK Petro Chemical	Ma'aden	2013.02 ~ 2013.05
Kuwait FCC Refinery Plant	KNPC	2013.02 ~ 2013.04
Saudi SWRO Infra Structure	Marafiq	2012.12 ~ 2013.04
Kuwait CFP Petro Chemical	KNPC	2012.07 ~ 2012.10
Saudi POM Petro Chemical	Sabic	2012.07 ~ 2012.10
Qatar Laffan-2 Refinery Plant	Laffan	2012.06 ~ 2012.09
Saudi Jazan Petro Chemical	Aramco	2012.06 ~ 2012.10
Saudi SG&B Power Plant	Samco	2012.05 ~ 2012.08
Saudi PCQ2 Petro Chemical	AMEC	2012.02 ~ 2012.06

ABOUT EXPERIENCE

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Detail Engineering Design

Malaysia TGAST Oil & Gas	Prtronas	2013.10 ~ 2014.09
Indonesia AGCC Petro Chemical	SENORO	2013.11 ~ 2014.05
Malaysia SOGT Oil & Gas	GPP	2013.04 ~ 2013.05
Suwon, Korea A81 I&I	Samsung E&M	2013.01 ~ 2013.04
Bolivia Ammonia /Urea Plant	YPFB	2013.05 ~ 2014.07
Kuwait TGTU Oil & Gas	KOC	2012.08 ~ 2012.10
Saudi ABEOP Petro Chemical	Sabic	2012.05 ~ 2012.06
Korea YG Boiler Power plant	Yeosu Cogen	2012.02 ~ 2014.01
Philippines UTOS Refinery Plant	Petrion	2011.09 ~ 2013.04
Kuwait FCC Refinery Plant	KNPC	2013.02 ~ 2013.04

ABOUT EXPERIENCE

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Front & End Engineering Design

China LLD Polyelene Petro Chemical	CNNOC	2013.07 ~ 2013.10
China LLD Polyelene Petro Chemical	Damei	2013.02 ~ 2013.04
China LLD Polyelene Petro Chemical	Qinghai	2013.01 ~ 2013.05
Iran PP Petro Chemical	MEPEC	2011.06 ~ 2011.12
Philippines RMP-2 Refinery Plant	Petron	2010.05 ~ 2011.10

Feasibility Study

Kuwait CFP Refinery Plant Review	KNPC	2014.01 ~ 2014.01
Kuwait HCFP Petro Chemical	KNPC	2013.02 ~ 2013.04

Others

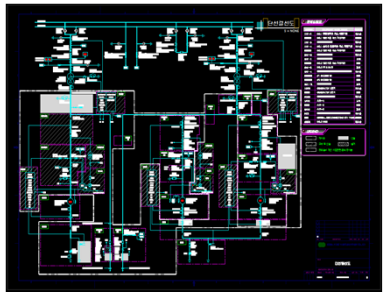
Russia RKAE Petro Chemical	Kuibyshev-Azot	2012.05 ~ 2013.05
Qatar Laffan DHT Petro Chemical	Laffan	2011.11 ~ 2013.04
Philippines UTOS Refinery Plant	KOSEP	2011.08 ~ 2012.07
Malaysia TBA Petro Chemical	HPC	2011.06 ~ 2012.01
UAE 4th LPG Train Oil & Gas	Takreea	2011.05 ~ 2012.09

Electrical Design & Manufacture

We are able to manufacture protection relay panel. Panels are for generator, transmission line, transformer and others. Especially equipment for extra-high voltage system is one of our strength points. And we proud. Because Our specialists are able to perform all of the process.







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Electrical Design & Manufacture

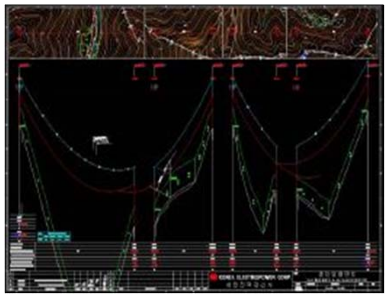
Seomjingang Hydroelectric Power Plant Protection Panel Design	154kV, 40MVA	LSIS	2015.09 ~ 2016.06
Dongdaesan Wind Power Plant Basic Design	22.9kV, 21MW	Byucksan Power	2015.09 ~ 2015.12
Magok CES Electrical Design	22.9kV	Byucksan Engineering	2014.11 ~ 2016.12
Angang Incinerartion Plant Electrical Engineering Design	22.9kV, 2.8MW	Hyosung	2014.12 ~ 2015.09
Shunt Reactor Reorganization Design		Sejong Engineering	2014.06 ~ 2014.08
Hanam Combined Heat & Power Plant Generator Protection Panel Design	154kV, 465MVA	Nasan Electric Industries	2014.04 ~ 2014.08
Seoul CCPP Generator Protection Panel Design	154kV 388MW	Nasan Electric Industries	2014.08 ~ 2015.11
Pocheon CCPP Generator Protection Panel Design	345kV 2020MVA	Nasan Electric Industries	2012.08 ~ 2014.04
Yangju Combined Heat & Power Plant Generator Protection Panel Design	154kV 600MVA	Nasan Electric Industries	2012.03 ~ 2014.02
Sejong Combined Heat & Power Plant Generator Protection Panel Design	154kV 690MVA	Nasan Electric Industries	2012.03 ~ 2014.02
Ansan CCPP Detail Design	154kV 1023MVA	Posco Engineering	2012.05 ~ 2014.12
Vietnam Landfill LFG Power Plant Electrical Design		Leetek Solution	2007.05 ~ 2007.07

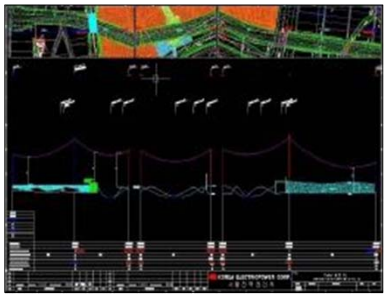
MEASUREMENT & DESIGN

Survey & Design for Transmission Line

◎ Profile Leveling, Center Line, Plane, Reconnaissance Survey
◎ Cadastral Survey
◎ Site Survey & Approval
◎ Existing Transmission Survey
◎ General, Cadastral Triangulation Survey
◎ Control Point Survey & Laying
◎ Cartography & Aerial Photography
◎ Static Survey : Control Point & Topographical Survey
◎ Rapid Static Survey : Control Point & Topographical Survey
◎ Survey for Civil Engineering Design





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ABOUT EXPERIENCE

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Survey & Design for Transmission Line

154kV Mado T/L

345kV Gunsan-Saemangeum T/L

154kV Daesan-Dangjin Thermoelectric Power Plant T/L

154kV Yongjeong T/L

154kV Cheongpyeong HP-Uiam HP T/L

154kV Osan-PyeongTaek T/L

154kV Jochiwon-Jeonui T/L

154kV Tongjin-Ganghwa T/L

154kV Shin Deokeun-Susaek T/L

154kV Shin Chungju-North Chungju T/L

345kV Shin Siheung- Shin Seongnam T/L

154kV Soha S/S

154kV Baegun-Yulchon T/L

345kV Gyeongin Ara Waterway

154kV Deokseong T/L

Digital Protection System Stimulator Development

All kinds of electrical equipment use the IEC61850 to interwork with Protection Relay, thereby performing supervision, control, measurement, alarm, report and others. In other words, Digital Protection system simulator gathers the information of every IED at all times and saves and analyzes fault data immediately. Therefore, this system improves reliability and reduces damage because it prevents accident in advance and restores operation promptly.

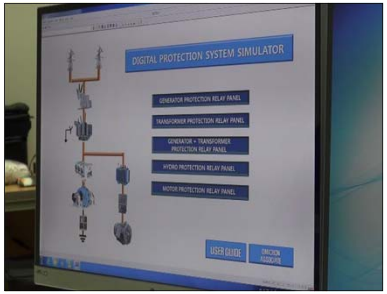

ABB KOREA AGENCY

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We are a special agent of ABB.
ABB is world's 3 major engineering company.
We provide best protection relay in close cooperation
and perform quality control by function test

Combined Heat and Power Plants

Nuclear Power Plant

Plants

EQUIPMENT

DOBLE – F6150
ISA – DRTS66
OMICRON – CMC356

EQUIPMENT

AEMC – 4500
Vacuum Circuit Breaker Analyzer
DADA – DAHP6020
OMICRON – CM GPS
HIOKI – 3280-10
YOKOKAWA – CA150




EQUIPMENT

ISA – CBA1000
OMICRON – CPC100
VANGUARD – CT6500
FLUKE - 434
FLIR – P65CSI (Thermo-Graphic Camera)
HIOKI – L.C.R HITESTER 3522-50





EQUIPMENT

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Function Generator – G305
Pneumatic Test set
High Voltage Insulation Tester 2000V 5000MΩ
Phase Sequence Indicator 50~450V
Precision Multi-ohmmeter
Motor & Phase Rotation Tester 3126-01






EQUIPMENT

Power Analyzer – PROTEK 3003Q
Function Generator – PROTEK 9205C
Frequency Counter 45~60HZ 0.2HELZ STEP
Psychrometer Synchro scope
Dewpoint Meter - 645
Hand Pump – PGMO 20bar






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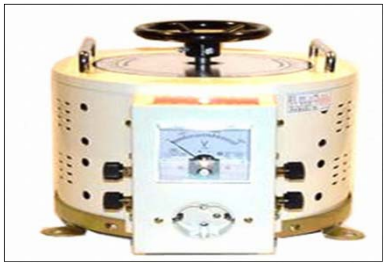
EQUIPMENT

Illuminometer – 0~300/1000/3000LUX
Digital Electro Pneumatic Calibration
Vibration Measurement Equipment 0.01~2.0m/m
High Speed recorder
Variac Slidacs 3KVA
Thermometer – JT650C



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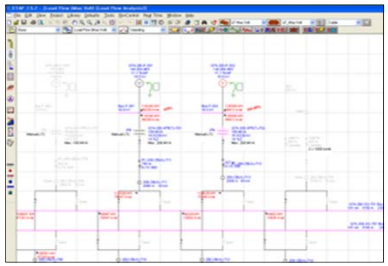
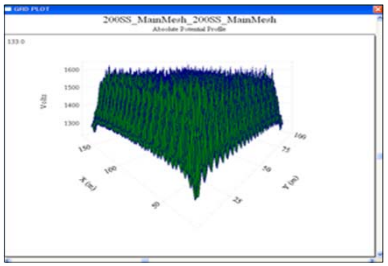
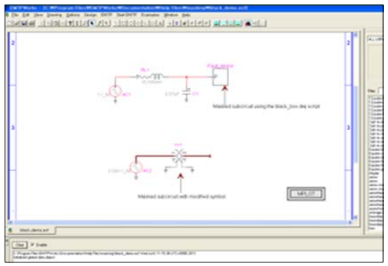
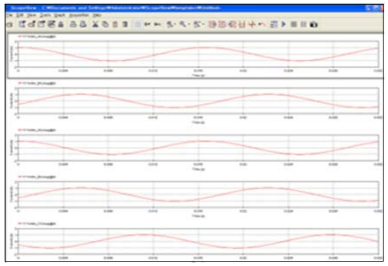
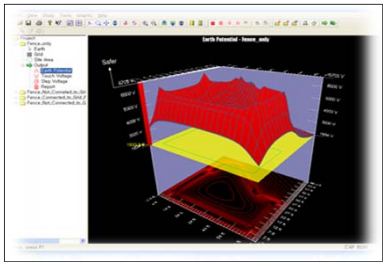
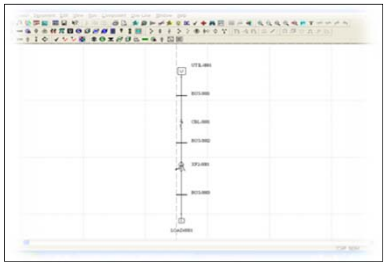
EQUIPMENT

Oil Acid Tester
Oil Insulation Tester
Clamp Earth Tester
KORITSU – 3125
Digital Insulation Tester – MY4001

EQUIPMENT

ETAP – OTI, CEATI
PTW – SKM
GROUND MAT – SKM
EMTP-RV (Transient study : TRV)
ATP Draw (Transient study : Lighting, Switching)

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CONTACT US

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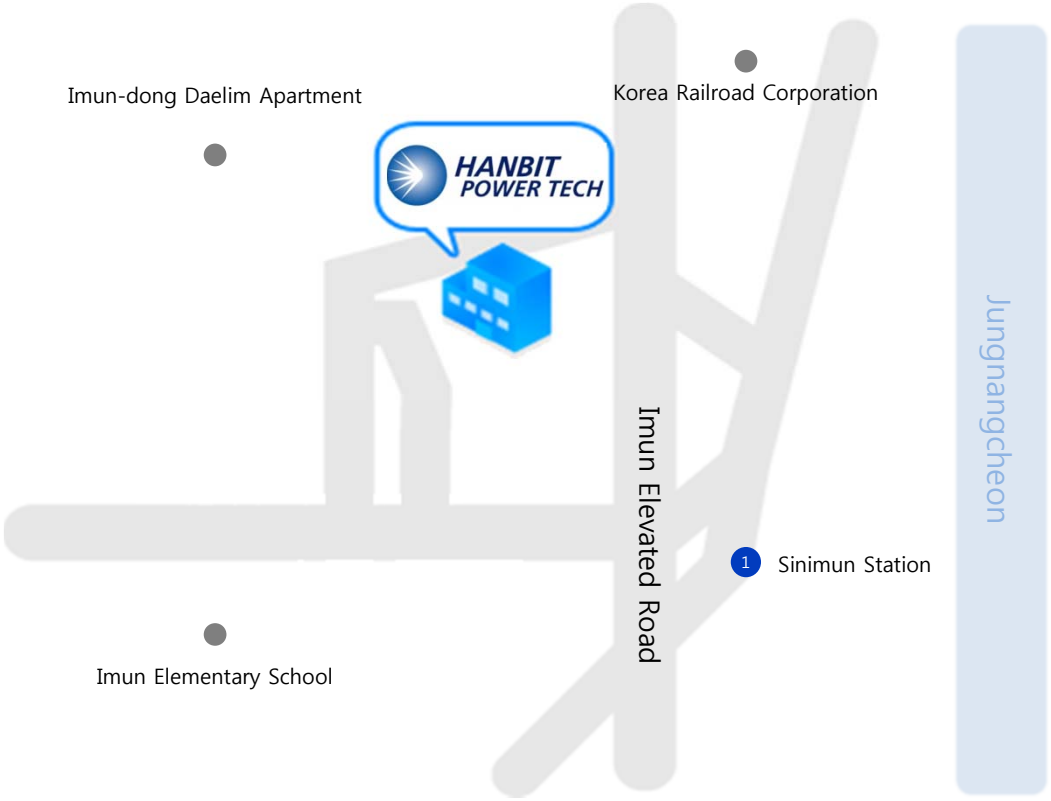

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