



انجمن سازندگان و تامین کنندگان  
کالا و خدمات انرژی‌های تجدید پذیر (ساتکا)

جلسه معارفه انجمن ساتکا

۷ آبان ۱۴۰۲

# اولین جلسه معارفه اعضای جدید انجمن ساتکا

نام شرکت: فراز انرژی پاد

ارائه دهنده: آقای مهندس سخندان





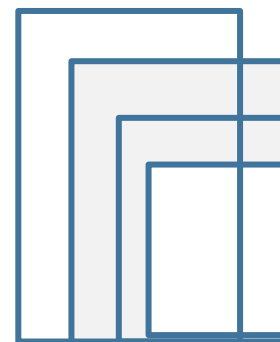
# BHT Presentation 2023

[WWW . BHT – ONLINE . DE](http://WWW.BHT-ONLINE.DE)



# Content

- 01 About us
- 02 Product
- 03 Our Service
- 04 Customers
- 05 R & D
- 06 Import Share
- 07 Organization Chart
- 08 BHT location
- 09 Contact



BHT Electric-Control-Mechanic Company has more than 30 years' experience as a multi-service provider of manufacturing and engineering high-quality parts such as turbine components, electrical and control modules, analog and digital boards, as well as instrumentation devices for wind, solar & fossil power generations, petrochemicals, oil and gas, railway, cement, steel & paper industries worldwide.

### At BHT, we focus on offering customers in 6 main categories:

- Electrical parts
- Control modules (Analog / Digital boards) and automation systems
- Mechanical spare parts and turbo-machinery components
- Couplings for drive systems
- Instrumentation products and equipment's (I&C)
- Raw materials for industries

In addition, we also provide procurement of spare parts and OEM products, machineries, international trading, as well as engineering and reverse-engineering. BHT is also known for its global punctual delivery and competitive prices.

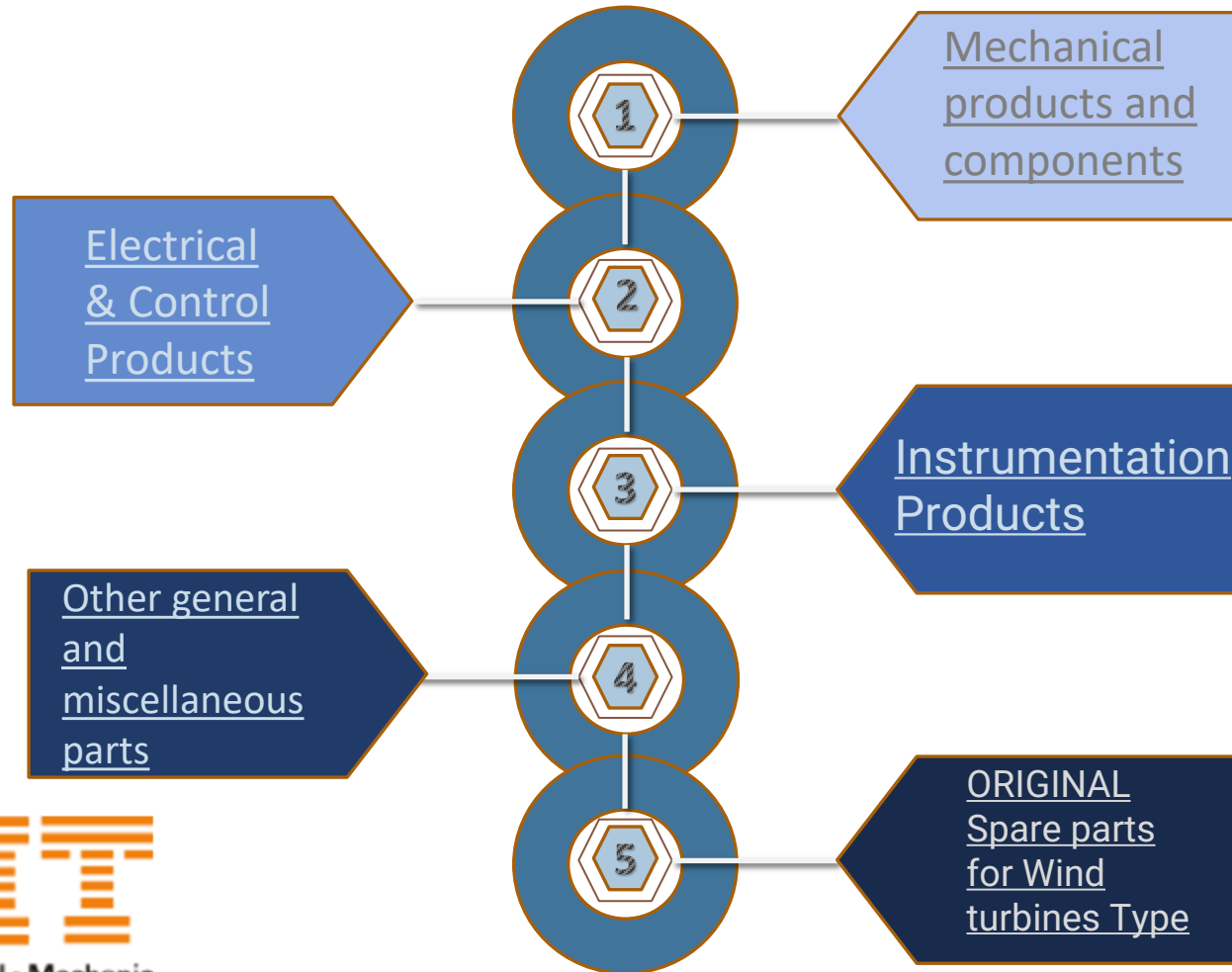
### Reverse-engineering and manufacturing services :

If your original supplier no longer exists or a product or part has been discontinued, we can help. It doesn't matter what product you need, we offer wide range of spare parts for turbines, from re-engineered electrical devices, control boards, and mechanical components, to any custom-designed parts to meet your exact configurations according to your "Sample" or "Drawing". Our quality control process ensures that all replacement supplied parts meet OEM specifications.



# Products:

Instrumentation (Mechanical or Electrical), Circuit boards (Analog & Digital), Controlling systems, Data loggers, Valves, Pumps, Motors, Compressors, Spare parts for HP & LP Bypass valves & Actuators, Couplings & Gears, Hydraulic and Pneumatic components, Pipes & Wires, Metal sheets & raw materials, heat shields, Segments & Hot parts, locking blades, Bolts, Nuts & springs, Expansion screws, Retaining rings, Insulation Materials, Filters, Gaskets & Sealings, Refractory bricks and holders, Electrolyzes, Generally spare parts for Gas & steam Turbines.



1

## Mechanical products and components

- Turbine Segments and heat shields, brick holders, Nozzles, Buckets, Rotor & Stator Blades and Vanes, Locking blades, Shroud blocks, Baskets, Supporting piece & all associated spare parts for Steam, Gas & Wind turbines.
- Burners, Combustion Chambers, Fixings, Refractory Bricks and holders, Transition pieces, Combustion Liners, Tubes and Baskets.
- Spare parts for HP, LP, Stop & Reheat bypass valves & Actuators, Inconel Bolts, Nuts & Springs, Discs, Pins, Expansion screws and coupling bolts.
- Spare parts for Generators, Non-Magnetic Retaining rings, Insulation parts & Materials.
- All kind of Couplings (gear couplings, tooth couplings, Hydraulic couplings, bending and flexible couplings, Flexible disc membrane coupling, clutches).
- Any kind of bearing & Housing (SKF, FAG, INA, NSK, FAFNIR, Luk, RHP, TIMKEN, etc.). Gear boxes, Speed accelerators and reducers, Journal & Trust Bearings.
- Valves, Actuators and Fittings (ball, shut-off, tapered plug, diaphragm, gate, safety, control, check, globe, butterfly, magnetic, Solenoid, Servo valves), flanges.
- Pumps, Compressors, Chillers and relative spare parts.
- Spare parts for Boilers/Heat Exchangers. Tubes & formed pipes, Seamless Tubes, Fin tubes, Basket elements for Air Preheaters , Metal Sheets, Coils, Wires, Plates and profiles (Super alloys).
- Spare parts for Wind turbines Type Vestas V47 (660KW)
- Expansion joints for Power industries.

2

## Electrical & Control Products

- Circuit boards (Analog & Digital cards), DCS Modules, Spare boards for control & automation systems, 1~ 8 layers Printed Circuit Boards (PCB), Data acquisitions & Data-loggers, Monitoring & control systems, Retrofitting of old control systems type GE Speedtronic Mark I, Mark II , Siemens SIMATIC S5 & Siemens SICOMP M/R minicomputers.
- Spare parts for Siemens SIMATIC S5/S7, Siemens Iskamatic, Siemens Simadyn, Siemens Teleperm C/M/ME/XP, Siemens Simatic C1/C2, H&B Contronic, ABB Bailey Infi 90, BBC Procontrol P13 and Decontic systems, GE Speedtronic Speedtronic Mark I, Mark II, Mark III, Mark IV, Mark V, Mark VI, Mark VIe Control Cards.
- Power supplies, UPS, Transformers, Transducers, Actuators, Motors & Drives (AC/DC), Vibrating motor, Soft Starters, Frequency inverters, HMI, Industrial Monitors, TFT & LCD for recorders, Relays, Fuses, Contacts & Circuit Breakers.
- LV & HV Cables, Wires, Flexible connectors.



# BMT

Electric • Control • Mechanic

Electric • Control • Mechanic

### 3 Instrumentation Products

- Thermocouples & thermometers (TC & RTD), Flame scanners & spark plugs, Differential pressure transmitters, Pressure switches and gauges, Temperature gauges, Level indicators, Analog & digital counters, Paperless recorders, transmitters.
- Sensors (Speed, Light, displacement, temperature, Weight, humidity, moisture, vibration, pressure, sound), Positioners, Gas probes, Gas & Water Analyzers, Gas Flow meters, Non-contact magnetic sensors (Customizable according to sample or drawing).
- Spare parts for fire-fighting and extinguish systems. Beam detectors, Gas, smoke, heat, fire detectors, Electric sounder, call points, Mini disc and control modules.
- Semi-Conductors, diodes, limit switches, Micro Switches, proximity switch, Coils, Timers, Amplifiers, Converters, burner lamps, Fans.
- Vibro-meter / Meggit Vibration Monitoring, Sensing systems and spare parts (TQ Sensors, Power supply units, Machinery protection cards MPC, Input/output/Relay Cards, Galvanic separations, Accelerometers, amplifiers, Proximity sensors, IQS conditioners etc.)

### 4 Other general and miscellaneous parts

- Mechanical Seals, Sealing rings, Oil Seals, Deflectors, Gaskets, Packing rings.
- Filter elements (PALL, HYDAC, MAHLE, PARKER, INTERNOMEN, ARGO, FILTREC, STAUFF, VICKERS, EPPENSTEINER, HY-PRO, TAISEI-KOGYO).
- Air Compressor Filter (Atlas Copco, Hankison, Ingersoll, Compair, Ultrafilter, Zander, Sullair).
- Oil and lubricants (Original SHELL oils-Made in Germany).
- Welding Electrodes, Chains & fasteners.
- Spare parts for Electrolyzers/Electrodialysis.
- Ceramic & Fireproof parts, Well blocks, Melting & Heating equipment, melting crucibles & pots, Gooseneck, Nozzle heater & head, injection coupling, plunger, tube & chamber furnaces, clamping systems, sleeves in all die casting process, polishing & die-casting machines (Hot & cold chamber).
- Solar panels & components, solar water heating systems.
- Raw materials for industries (Oils, Powders, Gypsum additives, Cement additives, Metylan special, Alloys, Sheets, Bars, etc.)

### 5 ORIGINAL Spare parts for Wind turbines

- All CT-Boards (CT3357, CT3409, CT277, CT 3503, CT3514, CT3251, CT 3133, CT3153, CT3364, CT 228, CT 218, CT 217, etc.), VRCC Control units, VRCC Power Electronics, Resistor, THERMOSTAT PROPORTIONAL PTS5, WATCHDOG, Gearboxes, Couplings, Motors, Anemometers, Proportional Valves, Hydraulic & Gear oil, Wind Vane, Surge arister, Hydraulic oil Filter, etc.



Electric • Control • Mechanic

Electric • Control • Mechanic

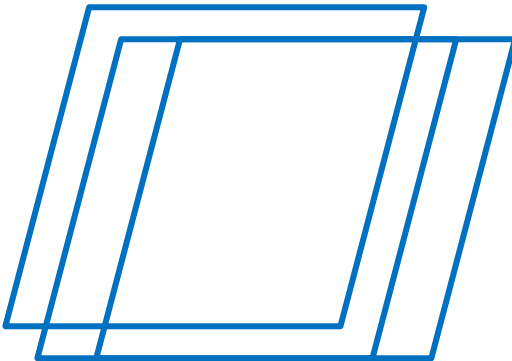


**OUR SERVICE:**

Based on our extensive, successful business activities worldwide and striving to be the most innovative company, now achieving your goals with our company is much easier process. Whether it's a simple idea to design and engineer a part or to support you in manufacturing a more elaborate and multidimensional project.

In addition, procurement of spare parts, machineries, import & export are as one of our routine services beside of engineering, reverse-engineering and manufacturing activities.

- Procurement
- Engineering & Reverse Engineering
- Consulting



# CUSTOMERS:



MAPNA Group



Mazandaran Wood & Paper Industries



Mahan Air



opsim



Arya Sasol



TPC



PGPIC



Gol Gohar



Bahman



Tehran Cement



شرکت پتروشیمی امیرکبیر



NAVID ZAR CHIMI  
Polypropylene Manufacturer



Bakhtar group CO



Iran Air



Mobarakeh Steel Company



شرکت پتروشیمی مهر  
MEHR PETROCHEMICAL CO.



Zahedin Chemical Co.



Shomal Cement



SISCO



Hormozgan Steel Company



میان‌دوآب  
شرکت پتروشیمی (سهامی خاص)



SPEC



TAKAB



ikco



شرکت پتروشیمی لاله



TJPC  
شرکت صنایع پتروشیمی تخت‌جمشید



دلفان  
شرکت پتروشیمی فن آوران



پتروشیمی آوران



شرکت پالایش نفت سیراز



BHT  
Electric • Control • Mechanic



شرکت پالایش نفت لاوان



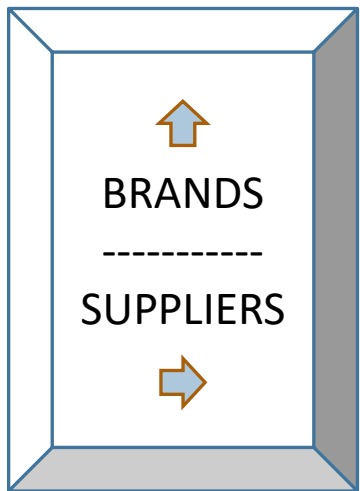
شرکت تجران فولاد سیجان (سهامی عام)  
Sirjan Jahan Steel Company (SJSO)



Sirjan Jahan Steel Company

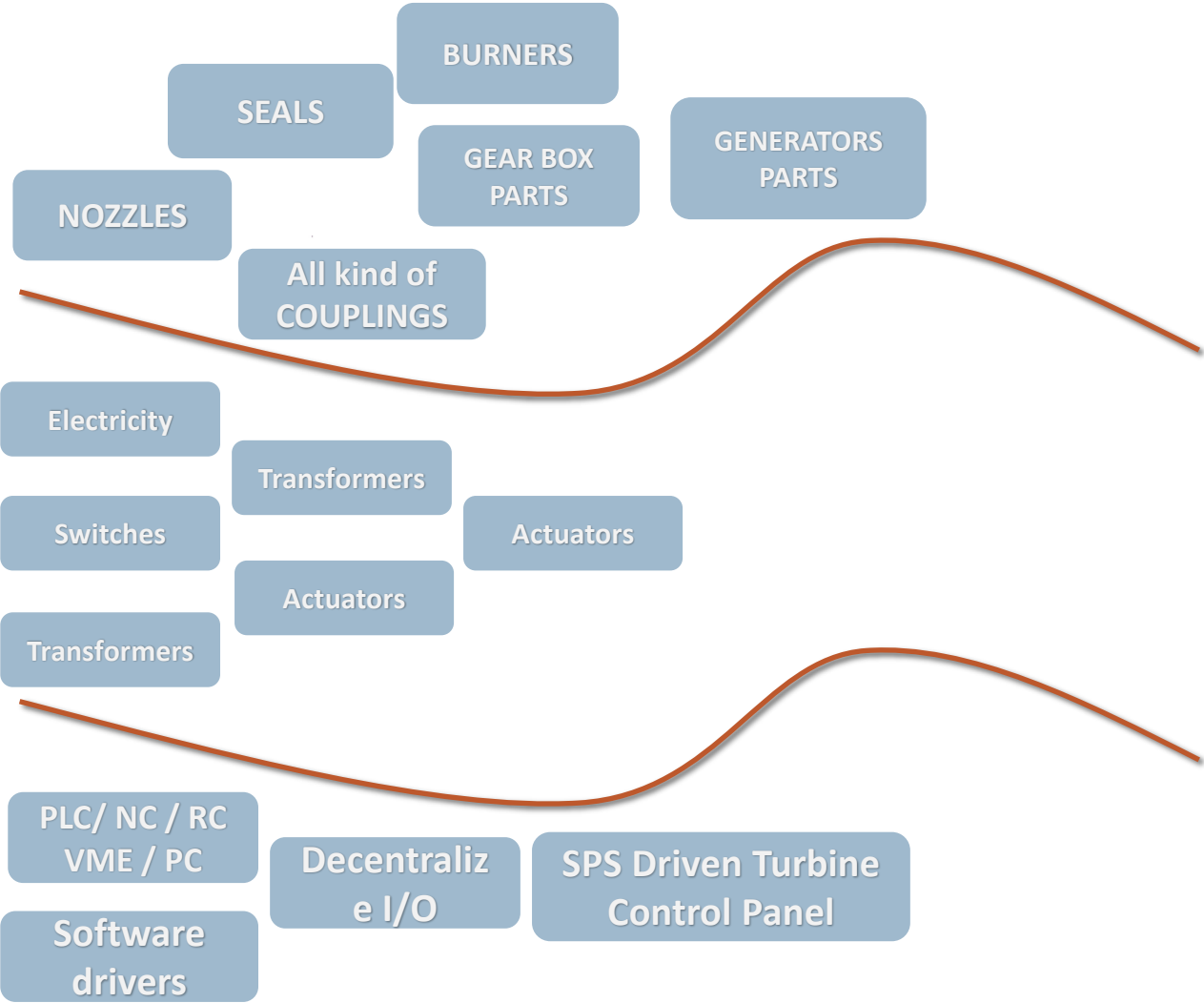


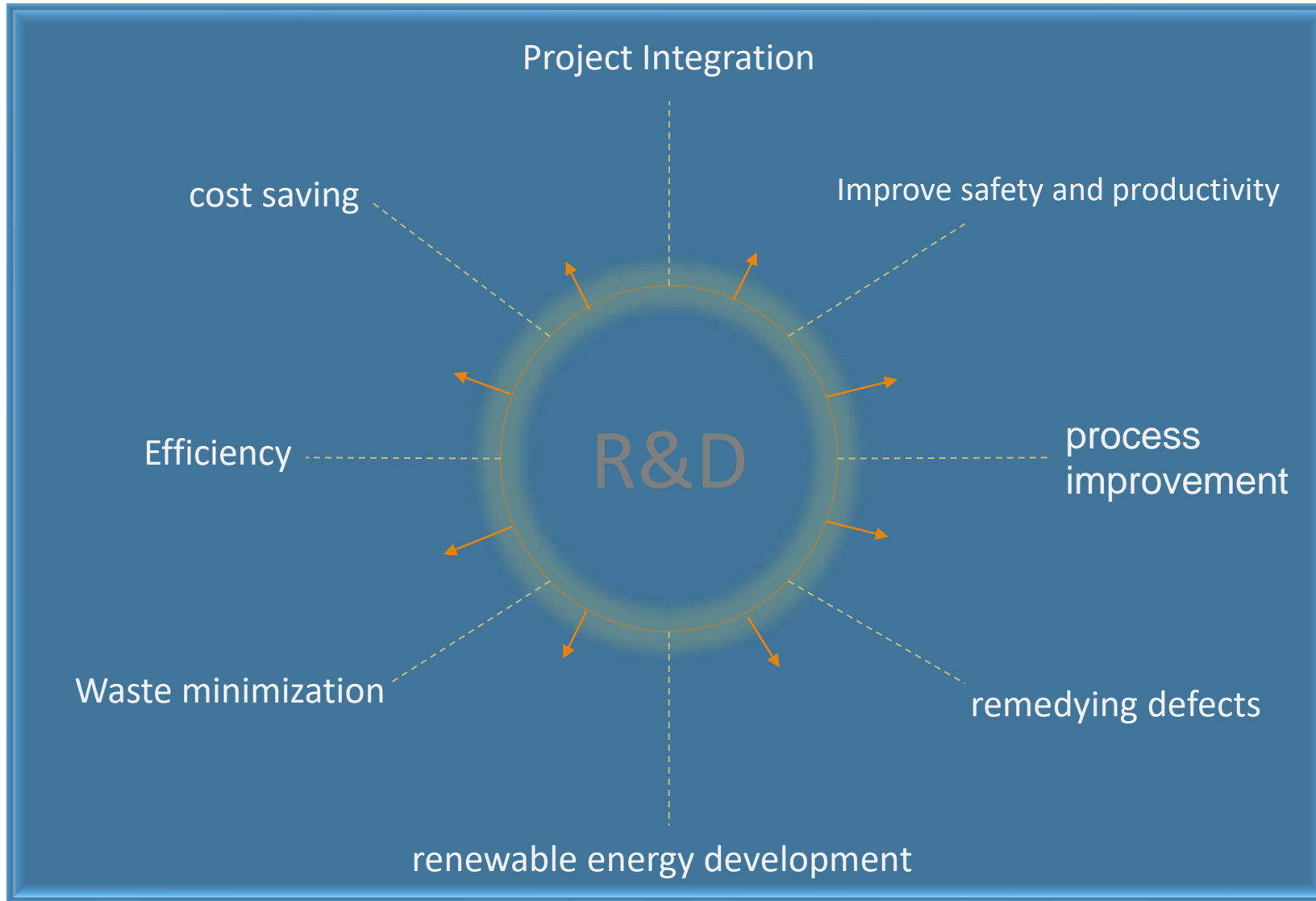
- ABB, Siemens, FLSmidth, Sumitomo, Hawe, Leroy, Somer, Flender, KNE, PWT, Adixon, Atlas Copco, Bosch,
- AEG, Flowserve - Danfoss, Cooper, Sulzer, Metek, Fisher, SEW, Bradley, Eaton, E+H, Honeywell, Krohne,
- Emerson, Omron, Samson, Schneider - National Instruments, Metso, Hirshman, Parker, Wika Allweiler,
- Dresser, Asco Auma, Durag, BBC- Howden ,Hydac, GE - Alstom, Tyco, Allen and ETC

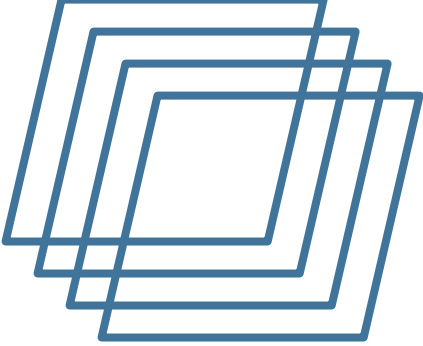


OUR PARTS

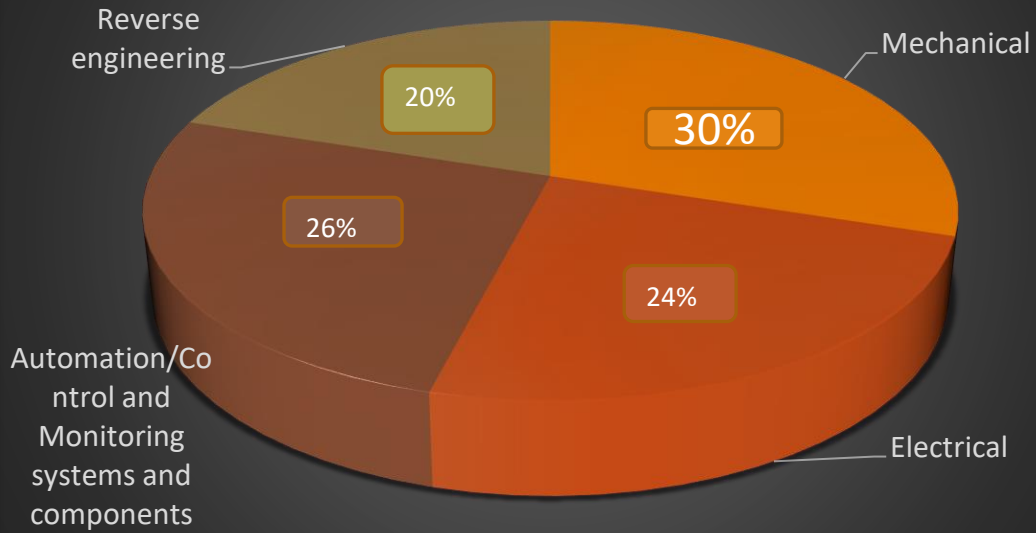
- Mechanical Components
- Electrical Components
- Automation/Control and Monitoring systems and components



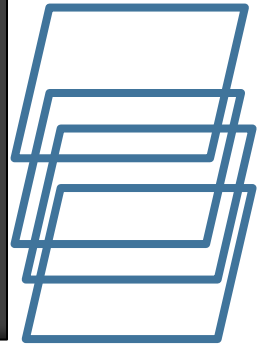
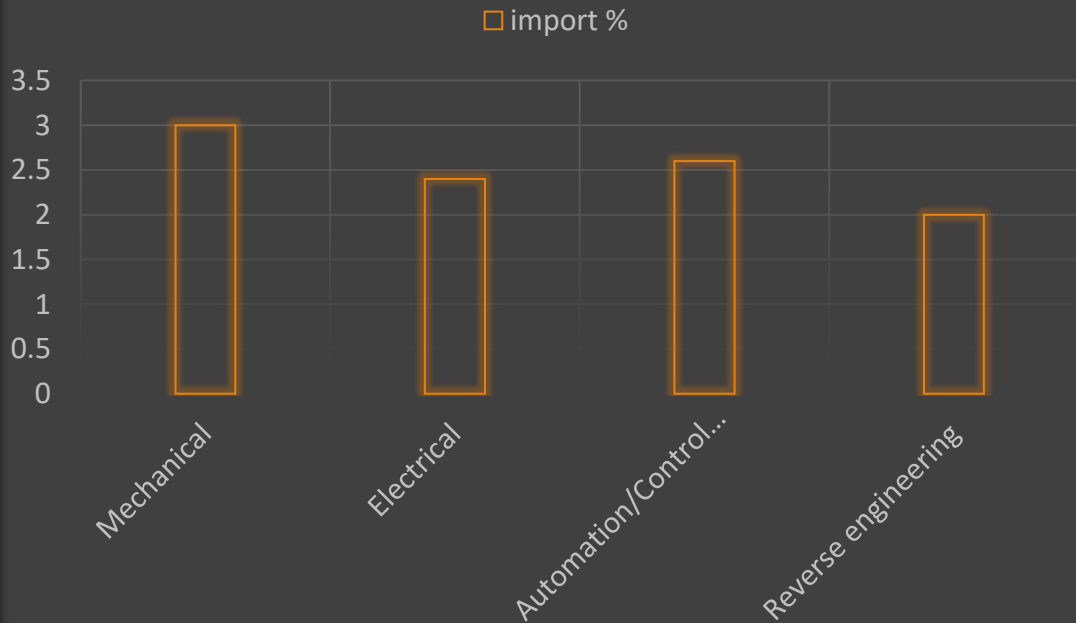




# Import percentage of each field



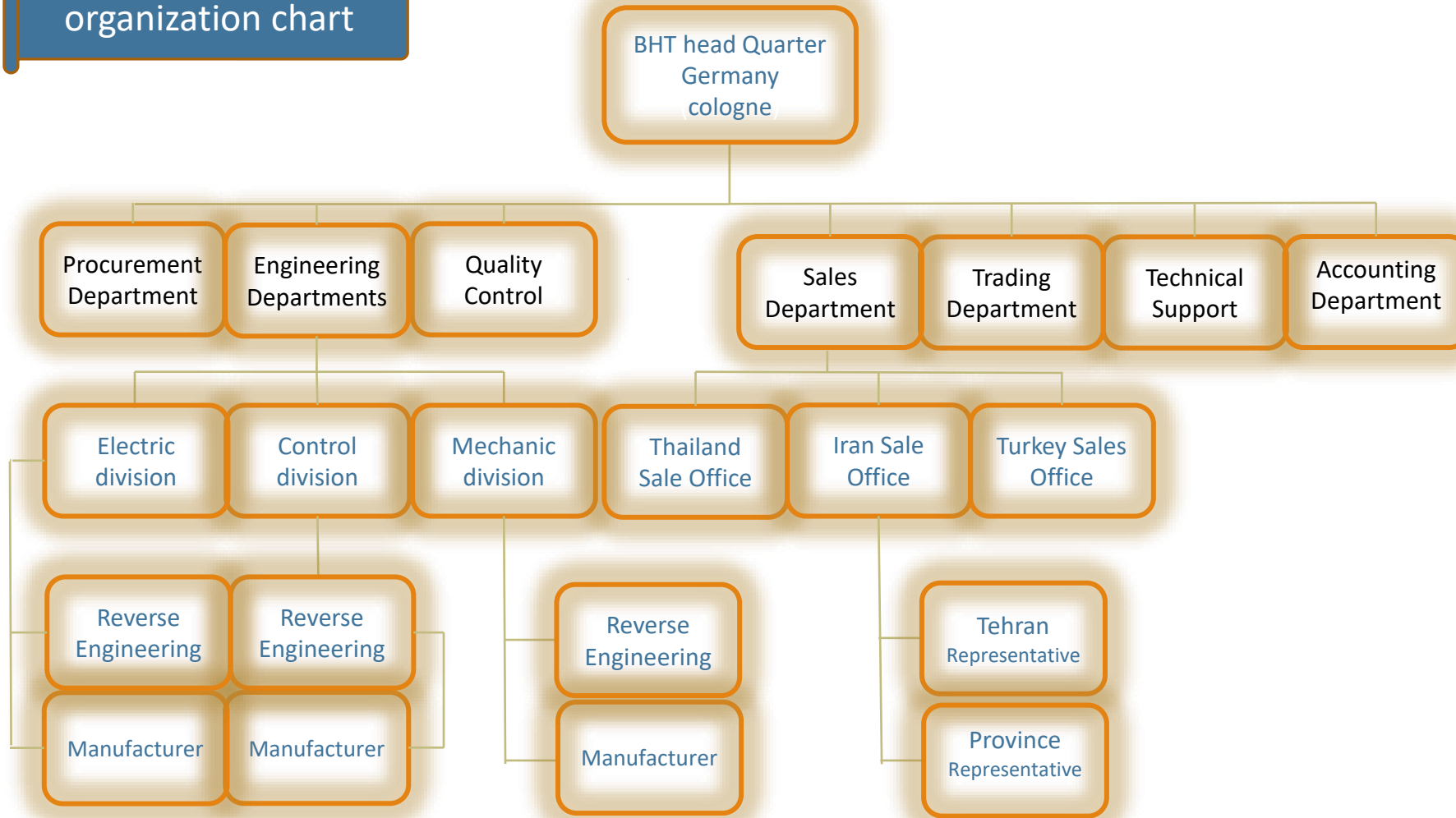
## import %



Electric • Control • Mechanic

Electric • Control • Mechanic

# organization chart



# Solar Farm Activity 2023

-600 MW Solar Power Plant Tender(MD3)

Inverter

Tracker

Pile Driver

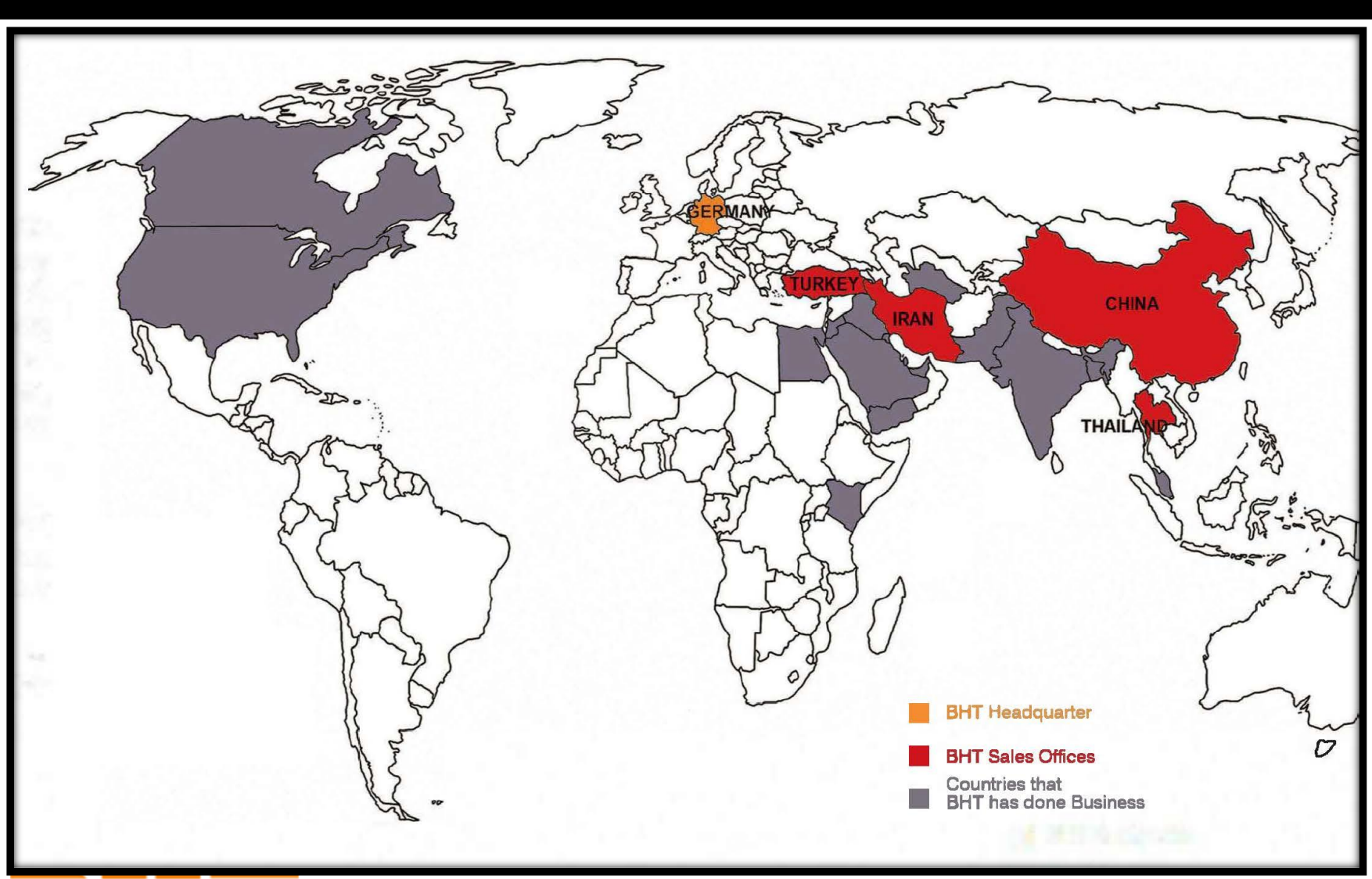
Weather Station

MC4

Engineering Service







BHT Electric Control Mechanic GmbH & Co.KG  
Hansaring 61  
50670 Köln /Germany  
Phone: +49 (0) 221 1685 7907  
Fax: +49 (0) 221 1685 6379  
Email: [BHT@BHT-Online.de](mailto:BHT@BHT-Online.de)



آدرس: تهران، نیاوران، خیابان شهید دکتر باهنر (خیابان  
نیاوران)، جنب پمپ بنزین نیاوران، کوچه مینا (تتاولی)،  
پلاک ۱۸، طبقه ۵، واحد ۵۰۲

تلفن: +۹۸ ۲۱ ۲۶۲۵ ۸۰۵۰

فکس: ۹۸ ۲۱ ۲۶۲۵ ۸۰۶۰

ایمیل: [info@faraz-energy.com](mailto:info@faraz-energy.com)



