

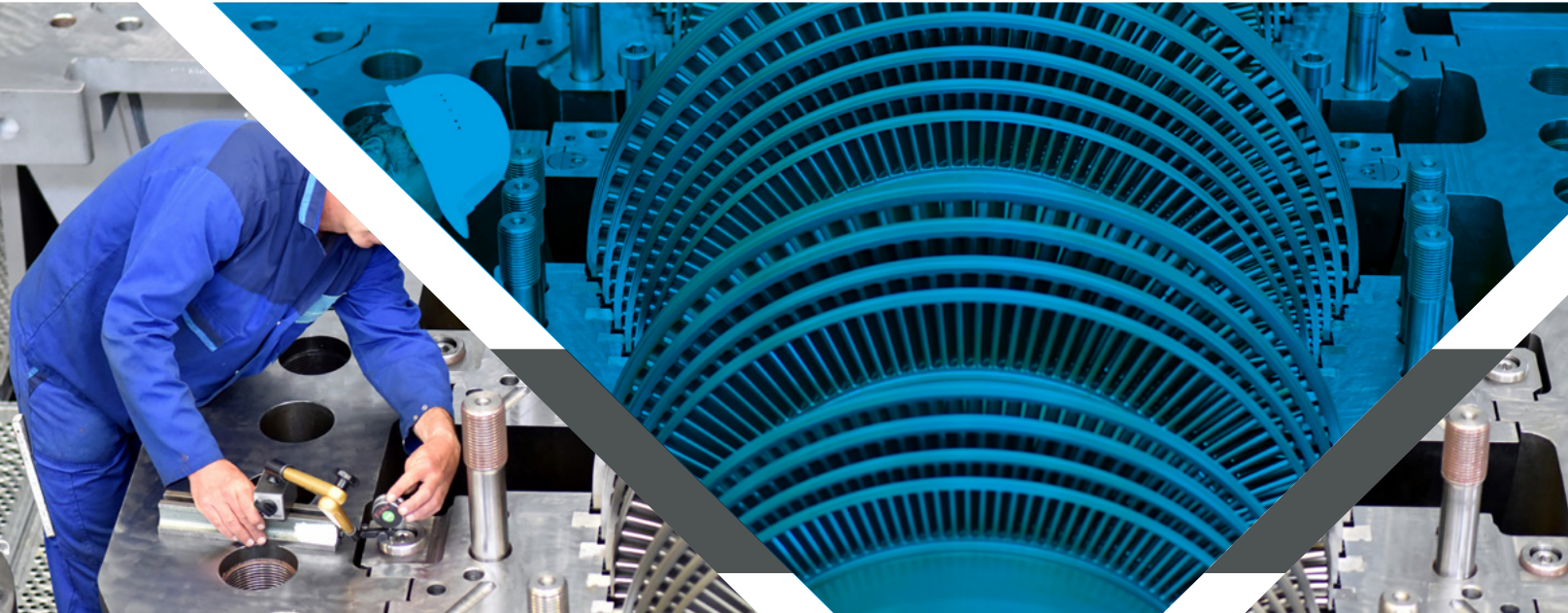
# GREEN POWER

The most recent Division, created to attend the market trends in none fossil energy power generation, Solar and wind Power Is and Intelligent Financial investment and environmentally conscious. Is not dependable in the fuel cost and is 100% renewable, free of emissions and with low maintenance cost. Energy Savings: Capacitor Banks, Harmonic Filters, Energy Saving devices, etc. Make better the voltage profile and the energy quality



# INDUSTRIAL

Our Industrial division provides material and equipment for industrial use to a huge variety of companies. Products as Pumps, Compressors: Screw,-industrial Tools: Air, Electric , Hydraulic , Filters: Oil, Water, Air, Water Treatment, Media filtration, Plants off-shore, Piping & Fittings, Flow Meters & Temp Meters, Level Switches, all kind of valves, a lot of products for instrumentation, lamps, etc. Tension and Pulling Equipment for aerial and underground cable installations, hydraulic tools for cable installation, cable accessories, etc. The accumulated experience, acknowledge bid regulations on the several markets we attend and the alliances with other manufacturers has permitted us to have a wide Scope of Products to attend the markets in the United States, Mexico and South America, with competitive prices, adequate conditions, same or better quality and delivery time, to keep 100% customers satisfaction.

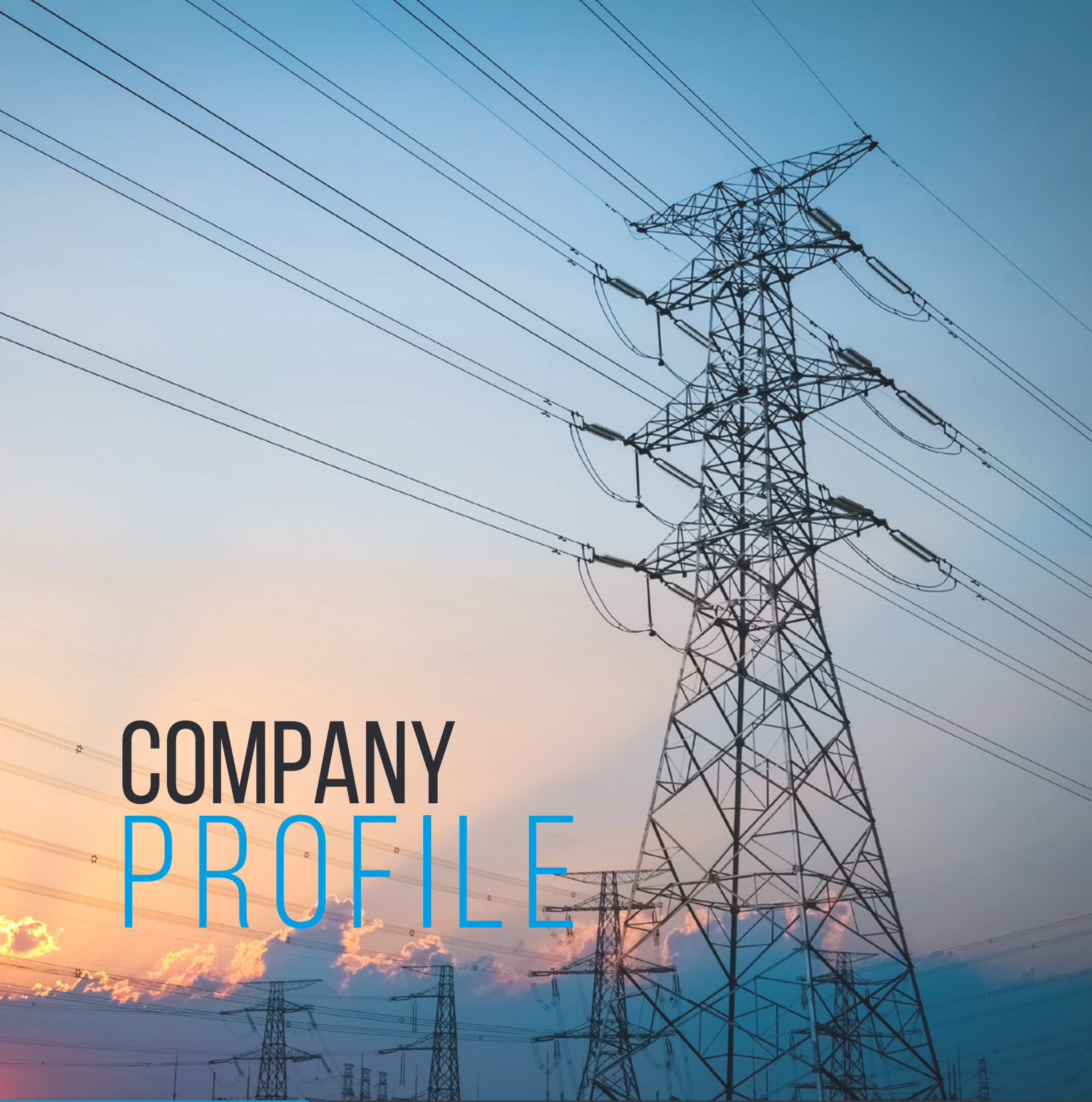


# WE ARE NOT THE NUMBER ONE YOU ARE. WE WORK FOR YOU



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# COMPANY PROFILE





# WHO WE ARE

Apfelbaum Industrial, Inc. offers a complete range of products and systems for any industry. As an Apfelbaum client/partner you can rely on a comprehensive portfolio of products tailored to your needs. We provide the services from the construction, commissioning and Manufacturing. We believe in listening to our customers to discover their real needs, and meeting those needs with quality products, timely, accurate and efficient services and bottom-line savings. Efficient, well thought-out **SYSTEMS** help insure that good performance to meet your expectations. We've developed highly sophisticated systems and utilize the latest technologies, to effectively deal with the complex and expanding needs of our customer's state-of-the-art service and maximize the value to them. Solid systems and built on a powerful philosophy, can only work if the **PEOPLE** using these systems are of the highest caliber, and committed to **SERVICE EXCELLENCE**. We focus our efforts on the utility, telephone, oil and industrial companies, with such focus that our service will keep its fundamen-

tal characteristics of personalized attention with quality and opportunity. We keep permanent contact with the manufacturers in order to be up to date on technology application, which might be of use to our buyers; at the same time we try to strengthen our relationship with the end users job sites to know their point of view and their inquiries on the performance of the equipment.

**Apfelbaum** Commitment to Customer Satisfaction is at the center of all training and is demonstrated in our performance, We don't just sell products, we work to understand our client problems and needs and we do all we can to provide the solution to help them reach their goals. We have Branch companies in Mexico, Venezuela, Dominican Republic and sales representatives in many other countries. **We have 4 divisions: Power Generation, Transmi-ssion & Distribution, Green Power and Industrial.**

## OUR 4 DIVISIONS



POWER GENERATION



TRANSMISSION & DISTRIBUTION



GREEN POWER



INDUSTRIAL

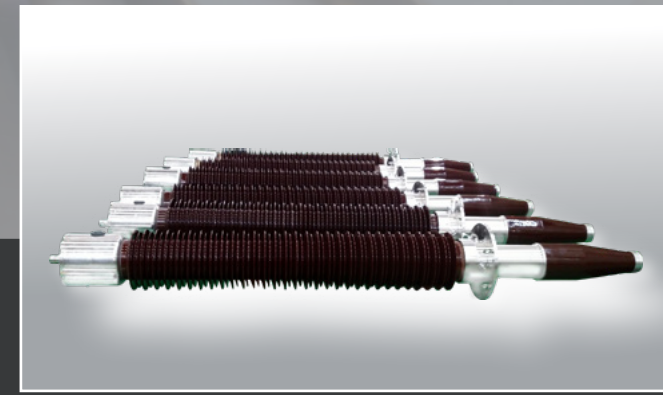
# POWER GENERATION

Apfelbaum has a broad range of knowledge and experience to take their projects from simple cycle turbines to Combine Cycle Power Plants with different sizes and configurations. Also we work in projects for Combine Heat and Power Heat Recovery Systems to attend the industrial demand with savings. We sale Diesel, Gas and steam turbine generators; spare parts for turbine generators like Blades, Deflectors, Transition Pieces, Bushings different types and materials, Electronic Boards, Fuel Nozzles, Mechanical seals, Flex Couplings, Turbine Rotors, O 'Rings, Bearings, Thermocouples, Ignitors and Ignition cables, Spark Plug, Servo-valves, Circulation Pumps, Centrifugal Pumps, Instrumentation: Flow Meters, Pressure Gauges, Temperature Meters, Level Meters, Pressure Switches, Time Relays, Event Counters, Recorders, Terminal Blocks, Solenoids, Heating resistors, voltage regulators, Converters, Power Supply, Battery Banks, Insulation components, Diesel and water heaters, By-pass Check, safety, control and purge valves, Alloy Piping and Large Special Fittings; Oil Pumps, Chemical Pumps, Vibration and speed sensors, Brushes, Battery Banks, Excitation Systems & Parts Spark Plug Cables, RTD's and temperature sensors, Fuses, Alloy Piping, Special fittings, SS Tubing and fittings, injection Fuel Valves several types, Fiber Optic cables, UTP Cables, fuel sprayers for burners, burner nozzles, gaskets for burners, Stacks, cooling pumps, water pumps and spare parts, electrohydraulic pumps and spare parts, hydraulic, oil and air filters and elements motors and motor-pumps, bearings and all those obsolete and difficult to find parts.

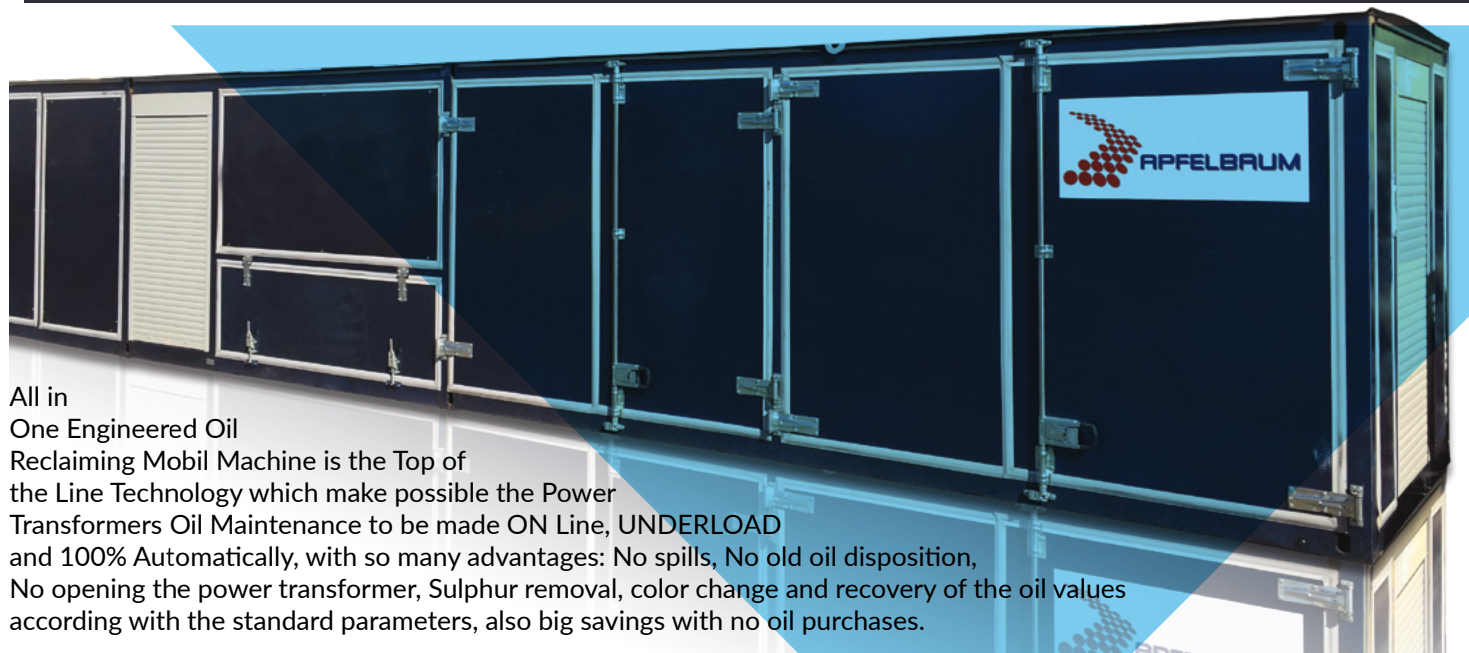


# TRANSMISSION & DISTRIBUTION

Apfelbaum has a wide experience and capacity to provide Power Transformers, HV Capacitive Air-Oil Bushings, Switch-gears, Mobil Substations and a broad range of material and equipment for Electric Transmission and Distribution. Power Transformers, GIS Power Circuit Breakers (SF6), Disconnecting Switches & Cut-Outs, Lighting & Surge Arresters, Ceramic, Glass and Composite Insulators, Bushing for Power Circuit Breakers and Transformers, Voltage and Current Transformers, Hardware for Transmission and Distribution, Protection Equipment for Aerial Pulling/Tension Cable Accessories. HV Cable, OPGW, ACSR, Line Hardware and substation connectors, cable terminations, Capacitor Banks, Reactors, Multi-function relays and protection panels. Auxiliary Panels, Glass, Porcelain and Composite insulators, LV Lighting arresters, disconnecting switches, switch -reclose, hot line tools.



# TRANSFORMER OIL RECLAIMING



All in One Engineered Oil Reclaiming Mobil Machine is the Top of the Line Technology which make possible the Power Transformers Oil Maintenance to be made ON Line, UNDERLOAD and 100% Automatically, with so many advantages: No spills, No old oil disposition, No opening the power transformer, Sulphur removal, color change and recovery of the oil values according with the standard parameters, also big savings with no oil purchases.

## TYPICAL OIL PARAMETERS BEFORE & AFTER TREATMENT

PARAMETER	TEST METHOD	BEFORE RECLAIMING	AFTER RECLAIMING
Appearance	Visual	Cloudy Brown	Clear and Transparent
Acid Number (TAN), mg KOH/g	IEC 296; ASTM D-664	0.63	0.01
Corrosive Sulphur	ISO 5662; ASTM D-1275	Corrosive	None Corrosive
Mass Moisture Content , ppm	IEC 733; ASTM D-1533	170	5
Breakdown Voltage, KV	IEC 156; ASTM D-1816	11	74-80
Dielectric Loss Tangent for 90°C	IEC 247; ASTM D-924	4.0	0.001
Bulk Gas Content, %	IEC 60599; ASTM D-3612	12	0.1
Surface Stretching, H/m for 25°C	ISO 6295;ASTM D-2285	22	45
Mechanical Contamination size, microns	ISO 4406	50	5
Oxidizing steadiness: Acid number mg KOH/g	IEC 1125A; IEC-1125B; IP 307		0.2

