



COMPANY & PRODUCT CATALOG

North American Power Infrastructure Partner

OEM Representation · Procurement Advisory · Power Generation · Testing & Commissioning

GCP Energy LLC is an authorized OEM representative and procurement advisor serving utilities, EPCs, data centers, industrial facilities, and power generation developers across North America. With 25+ years of combined high-voltage expertise and offices in Salt Lake City UT, Houston TX, and Reno NV — GCP delivers world-class electrical equipment, engineering, and project support.

8 OEM Partners	25+ Years HV Expertise	500kV+ Product Range	\$100M+ Pipeline
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OEM PARTNER NETWORK

Mirabel Energy USA Wire, Cable & Fiber — MV/HV/Mining/Marine/LV	Taril Transformers Power Transformers — up to 1200kV / 500 MVA
Daelim Padmount & Pole-Top Distribution Transformers	Arcova Energy Surge Arresters · Insulators · Fuse Cutouts
Vankal Cables Transmission Towers · Monopoles · Solar Structures	IAC Electricals T&D; Hardware Fittings — 440V to 800kV
DataPhleet AI-Driven NERC Compliance Automation — dp:bots	HaloPhase 4D Thermographic Real-Time Fault Monitoring



Table of Contents

SECTION 1 — WIRE, CABLE & FIBER | Mirabel Energy USA

- › MV/HV Power Cable — 5kV through 500kV (XLPE, EPR, HVDC)
- › Mining Cable — Type SHD-GC / G / G-GC (MSHA Certified)
- › Low Voltage Building Wire — THHN · XHHW-2 · MC · TC Cable
- › Fiber Optic — OS2 · OM4 · OM5 · ADSS · MTP/MPO · Ribbon

SECTION 2 — POWER TRANSFORMERS | Taril Transformers

- › Large Power Transformers — up to 1200kV / 500 MVA
- › Distribution, Furnace, Rectifier, Solar & Traction Transformers

SECTION 3 — DISTRIBUTION TRANSFORMERS | Daelim

- › Three-Phase Padmount (75 kVA–10 MVA) · Single-Phase Padmount
- › Single & Three-Phase Pole-Mounted Transformers

SECTION 4 — T&D; HARDWARE & PROTECTION | Arcova Energy

- › Surge Arresters — Distribution (3kV) to Station Class (198kV MCOV)
- › Composite Insulators (10kV–765kV) · Fuse Cutouts (38kV / 300A)
- › T&D; Line Hardware — Clevises, Clamps, Dampers (170+ SKU cross-ref)

SECTION 5 — TOWERS & STRUCTURES | Vankal Cables

- › Lattice Transmission Towers 66kV–765kV · Steel Monopoles
- › Solar Mounting (DuraSolar) · Railway OHE (DuraRail) · Road Gantries

SECTION 6 — INFRASTRUCTURE HARDWARE | IAC Electricals

- › Hardware Fittings 440V–800kV · HTLS Conductor Accessories
- › OPGW / ADSS Hardware · AB Cable Accessories · Distribution Line Fittings

SECTION 7 — AI NERC COMPLIANCE | DataPhleet

- › dp:Bots — PRC-005 · CIP-002 · FAC-008 · TPL · PRC-024 Automation
- › Living RSAWs · Unlimited License · Scheduled & Ad-Hoc Auditing

SECTION 8 — FAULT MONITORING | HaloPhase

- › 4D Thermographic Sensing · Dynamic Line Rating (DLR)
- › Transformer & Substation Monitoring · Solar PV Monitoring

SECTION 9 — GCP ENERGY SERVICES

- › Substation & HV Testing and Commissioning (up to 765kV)
- › Power System Engineering · Procurement Advisory · 30MW PowerBlock

CONTACT & REGIONAL PARTNERS



SECTION 1 · WIRE, CABLE & FIBER

MV/HV Power Cable · Mining Cable (MSHA) · LV Wire · Fiber Optic

GCP Energy is the authorized North American OEM representative and stocking distributor for Mirabel Energy USA — premium wire, cable, and fiber manufactured in South Korea. Stocked in Reno NV, Houston TX, and Salt Lake City UT.

› MV Cable 5kV–35kV — XLPE & EPR	› HV Cable 69kV–500kV	› HVDC XLPE Cable
› URD Concentric Neutral	› Mining — Type SHD-GC (MSHA)	› Mining — Type G / G-GC
› LV Wire — THHN / XHHW-2 / MC / TC	› Fiber OS2 / OM4 / OM5	› ADSS & Rollable Ribbon

OEM PARTNER: Mirabel Energy USA

ICEA S-94-649 · IEEE 404 · IEC 62067 | 5kV–500kV | XLPE & EPR | Stocked in 3 Locations

5kV–500kV	XLPE or EPR	Cu or Al	3 Locations
Voltage Range	Insulation	Conductor	In-Stock

OVERVIEW

Mirabel medium and high voltage cable spans the full voltage spectrum — 5kV distribution through 500kV bulk transmission — engineered to AEIC, ICEA, and IEEE standards and manufactured in South Korea. GCP Energy stocks Mirabel MV cable in Reno NV, Houston TX, and Salt Lake City UT for rapid delivery. From utility URD feeders and substation cable to bulk transmission XLPE and HVDC, GCP delivers product, documentation, and technical support.

KEY HIGHLIGHTS

- 5kV, 15kV, 25kV, 35kV distribution class — XLPE and EPR insulated
- URD concentric neutral — utility direct buried primary feeder
- 69kV, 138kV underground transmission XLPE and EPR
- 230kV, 345kV, 500kV bulk transmission XLPE (Milliken conductor)
- HVDC XLPE — offshore wind and long-distance DC bipoles (±200–±525kV)
- Armored MV — duct, direct burial, and industrial tray applications

SPECIFICATIONS

5kV–35kV (MV)	ICEA S-94-649 · UL 1072 · AEIC CS8/CS9 90°C/105°C
69kV–138kV (HV)	IEEE 404 · AEIC CG5/CG6 XLPE or EPR Cu/Al 250–2500 kcmil
230kV–500kV (EHV)	IEC 62067 · IEEE 1532 Milliken Cu corrugated Al sheath
HVDC	IEC 62895 DC-grade XLPE ±200kV–±525kV rated
URD	ICEA S-97-682 concentric Cu neutral direct burial
Lead Times	MV ex-stock: 1–4 wks HV/EHV: project basis
Stocking	Reno, NV · Houston, TX · Salt Lake City, UT

PRODUCT MATRIX

Voltage Class	Standard	Conductor	Temp Rating
5kV–35kV MV	ICEA S-94-649	Cu or Al, #2 AWG–1000 kcmil	90°C / 105°C
69kV–138kV HV	IEEE 404 / AEIC CG5	Cu or Al, 250–2500 kcmil	90°C
230kV–500kV EHV	IEC 62067	Milliken Cu, 1000–3500 kcmil	90°C
HVDC XLPE	IEC 62895	Milliken Cu, 1000–3500 kcmil	70°C DC
URD 15kV–35kV	ICEA S-97-682	Cu or Al, #6–1000 kcmil	90°C

OEM / PRODUCT LINE	GCP OFFICES	CONTACT GCP
MV in stock — Reno, Houston, Salt Lake City HV/EHV project basis — contact GCP Energy	Salt Lake City, UT Houston, TX Reno, NV	gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us

Mining Cable — Type SHD-GC / G / G-GC

OEM PARTNER: Mirabel Energy USA

MSHA 30 CFR Part 18 | Underground & Surface Mining | EPR Insulated | MSHA Compliant

MSHA Certified 30 CFR Part 18	CPE/CR Jacket Flame Resistant	2kV / 5kV Voltage Ratings	Full Docs Test Data Avail
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OVERVIEW

Mirabel MSHA-compliant mining cable is engineered for the most demanding underground and surface mining environments in North America. Type SHD-GC (Shielded Heavy-Duty with Ground Check) is the standard trailing cable for continuous miners, longwall shearers, and shuttle cars operating under MSHA 30 CFR Part 18. GCP Energy provides full MSHA documentation packages, flame-resistance certifications, and technical support for mine operators and EPCs.

KEY HIGHLIGHTS

- Type SHD-GC trailing cable — continuous miners and longwall shearers
- Type SHD-GC shuttle car and ram car trailing cable
- Type G / G-GC portable power — surface and underground mining
- Longwall face equipment and AFC drive cable
- MSHA documentation packages — test data and flame resistance certs
- Technical support for mining OEMs and mine operators

SPECIFICATIONS

Type SHD-GC	MSHA 30 CFR Part 18 2kV & 5kV individually shielded phases + ground check
Type G	2kV heavy portable surface mining MSHA compliant
Type G-GC	2kV heavy portable + integrated ground check underground mining
Insulation	EPR — thermoset, flame resistant
Jacket	CPE or CR — flame resistant, oil and acid resistant
Temp Rating	90°C conductor -35°C cold bend rating
Stocking	Reno, NV · Houston, TX · Salt Lake City, UT

PRODUCT MATRIX

Type	Voltage	Ground Check	MSHA Part 18	Application
SHD-GC	2kV / 5kV	Yes	Yes	Continuous miner, longwall, shuttle car
Type G	2kV	No	Yes	Surface mining — draglines, shovels
Type G-GC	2kV	Yes	Yes	Underground mining portable power
Type W	600V	No	No	Industrial portable power

<p>OEM / PRODUCT LINE</p> <p>SHD-GC: custom AWG and conductor count available MSHA documentation packages — contact GCP Energy</p>	<p>GCP OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONTACT GCP</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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Low Voltage Building Wire & Specialty Cable

OEM PARTNER: Mirabel Energy USA

UL 83 / UL 44 / UL 1569 | 600V | THHN · XHHW-2 · MC · TC · Control Cable

600V Rated <small>All LV Products</small>	Cu & Al <small>Conductor Options</small>	3 Cities Stocked <small>Ready Inventory</small>	Full NEC Line <small>Complete Coverage</small>
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OVERVIEW

Mirabel LV wire and cable covers the full NEC building wire product line for commercial, industrial, utility, and data center construction — THHN/THWN-2, XHHW-2, NM-B, MC Metal-Clad, TC Tray Cable, Service Entrance (SER/SEU), USE-2/RHH/RHW-2, and Control & Instrumentation cable. Stocked in Reno, Houston, and Salt Lake City for rapid deployment across the West and Gulf Coast.

KEY HIGHLIGHTS

- THHN/THWN-2 conduit and raceway building wire (14 AWG–1000 kcmil)
- XHHW-2 XLPE — 90°C wet and dry rated; solar PV applications
- MC Metal-Clad — armored for exposed building wiring (UL 1569)
- TC Tray Cable — industrial power and control in cable tray (UL 1277)
- Service Entrance SER/SEU — meter to panel feeders (UL 854)
- Control & instrumentation cable — shielded and unshielded, SCADA/PLC

SPECIFICATIONS

THHN/THWN-2	600V · 90°C dry / 75°C wet · PVC/nylon · 14 AWG–1000 kcmil · UL 83
XHHW-2	600V · 90°C wet & dry · XLPE · UL 44 · solar PV applications
MC Cable	600V · THHN conductors · interlocked Al or steel armor · UL 1569
TC Tray Cable	600V · power and control · shielded/unshielded · 18 AWG–2/0 · UL 1277
SER/SEU	600V · 75°C wet / 90°C dry · XHHW-2 conductors · UL 854
Control Cable	300V–600V · multi-pair shielded · SCADA, PLC, and process control
Lead Times	Most LV products: 1–3 weeks ex-stock

PRODUCT MATRIX

Product	Voltage	Size Range	Application
THHN/THWN-2	600V	14 AWG–1000 kcmil	Building wire in conduit
XHHW-2	600V	14 AWG–1000 kcmil	Solar PV, wet locations
MC Cable	600V	14 AWG–2/0 AWG	Exposed commercial wiring
TC Tray Cable	600V	18 AWG–2/0 AWG	Industrial cable tray
Control Cable	300V–600V	22–12 AWG	SCADA, instrumentation

OEM / PRODUCT LINE Full NEC LV line stocked — Reno, Houston, Salt Lake City Custom lengths and configurations available	GCP OFFICES Salt Lake City, UT Houston, TX Reno, NV	CONTACT GCP gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us
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Fiber Optic — OS2 · OM4 · OM5 · ADSS · MTP/MPO · Ribbon

OEM PARTNER: Mirabel Energy USA

ITU-T G.652.D · IEC 60794 · IEEE 1222 | Data Center · Utility ROW · OSP · Industrial

OS2/OM4/OM5 5 Fiber Types	6,912F Max Ribbon Count	500kV ADSS Utility ROW	MTP/MPO Trunk Systems
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OVERVIEW

Mirabel fiber optic spans the complete utility and data center spectrum — OS2 singlemode, OM3/OM4/OM5 multimode, MTP/MPO trunk systems, ADSS aerial self-supporting for utility ROW, armored and all-dielectric OSP, rollable ribbon up to 6,912 fibers, and industrial hybrid cable. GCP stocks key products in all three locations for rapid delivery to data center builds and utility SCADA fiber projects.

KEY HIGHLIGHTS

- OS2 singlemode — AI data center backbone, GPU cluster, 400G/800G/1.6T
- OM4/OM5 multimode — server-to-switch, top-of-rack, SWDM parallel optics
- MTP/MPO 12–32 core factory-terminated trunk cable systems
- ADSS aerial — utility protection relay and SCADA on energized ROW (up to 500kV)
- Rollable ribbon 144F–6,912F — mass-fusion splice, hyperscale data center
- Armored and all-dielectric OSP — duct, direct burial, and industrial tray

SPECIFICATIONS

OS2 Singlemode	G.652.D / G.657.A2 · ≤0.35 dB/km @ 1550nm · 400G–1.6T capable
OM4/OM5 Multimode	50/125µm · 4700/28000 MHz·km · VCSEL optimized · SWDM on OM5
MTP/MPO Trunks	12/24/32-core · OS2/OM4/OM5 · ≤0.35 dB IL · 100% factory tested
ADSS Aerial	IEEE 1222 · AT jacket (≤115kV) / AP jacket (≤500kV) · up to 800m span
Rollable Ribbon	ITU-T G.652.D · 144–6,912F · ~30 sec mass-fusion splice · gel-free
Lead Times	Key products in stock — Reno, Houston, Salt Lake City

PRODUCT MATRIX

Product	Fiber	Count	Key Application
OS2 Loose Tube/Ribbon	OS2 9/125µm	12–6,912F	Long-haul, data center backbone
OM4/OM5 Multimode	50/125µm	12–144F	Server-to-switch, 400G short reach
MTP/MPO Trunk	OS2/OM4/OM5	12–32-core	Data center parallel optics
ADSS Aerial	OS2 9/125µm	12–144F	Utility ROW — energized corridors
Industrial Hybrid	OS2 + Cu	2–12F+Cu	Fiber + PoE single run

<p>OEM / PRODUCT LINE</p> <p>Fiber line — mirabelenergy.us Stock in Reno, Houston, Salt Lake City MTP/MPO assemblies and ADSS span engineering — contact GCP</p>	<p>GCP OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONTACT GCP</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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SECTION 2 · POWER TRANSFORMERS

Up to 1200kV / 500 MVA · GSU · Auto · Converter · Furnace · Solar · Traction

GCP Energy holds a 10% commission agreement with Taril — ISO-certified manufacturer in Ahmedabad, India with 12,000+ transformers delivered to 40+ countries. Full spectrum from distribution through 1200kV EHV.

› Large Power Transformers — up to 1200kV	› Auto-Transformers — grid interconnecting	› GSU — Generator Step-Up
› Converter — HVDC	› Shunt Reactors	› Distribution Transformers 11kV–66kV
› Furnace & Rectifier	› Solar & Wind Renewable	› Traction

OEM PARTNER: Taril Transformers (TARIL)

IEC 60076 · ANSI/IEEE C57.12.00 | Up to 1200kV / 500 MVA | ISO Certified | India

Up to 1200kV Max AC Voltage	Up to 500 MVA Max Rating	12,000+ Transformers Delivered	40+ Countries Track Record
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OVERVIEW

Taril (Transformers and Rectifiers India Ltd) is GCP Energy's premier power transformer partner — ISO-certified manufacturer in Ahmedabad, India with 12,000+ transformers delivered to 40+ countries. Taril covers generator step-up (GSU), auto-transformers, grid interconnecting, and HVDC converter transformers from distribution class through 1200kV EHV up to 500 MVA. GCP Energy holds a 10% commission agreement with no cap.

KEY HIGHLIGHTS

- Generator step-up (GSU) transformers — gas turbine, hydro, and nuclear
- Auto-transformers and grid interconnecting (345kV–765kV)
- Power transformers for utility substation upgrades and new builds
- Converter transformers for HVDC and back-to-back interconnections
- Shunt reactors and earthing transformers for transmission systems
- Data center and AI campus large power transformers

SPECIFICATIONS

Power Transformer	Up to 1200kV AC up to 500 MVA ONAN/ONAF/ODAF
Auto-Transformer	Grid interconnecting, step-up, and step-down for transmission
Converter (HVDC)	HVDC — DC transmission projects GCP specialty
Standards	IEC 60076 · ANSI/IEEE C57.12.00 · CIGRE guidelines
Testing	In-house type testing lab — impulse, PD, load loss, temp rise
Certifications	ISO 9001:2015 · ISO 14001 · ISO 45001 · BIS · CE · NABL
GCP Commission	10% commission · no cap · contact GCP for RFQs

PRODUCT MATRIX

Product	Voltage Range	MVA Range	Cooling
Power Transformer	11kV–1200kV	1–500 MVA	ONAN/ONAF/ODAF
Auto-Transformer	66kV–765kV	10–500 MVA	ONAN/ONAF
GSU (Generator Step-Up)	11kV–765kV	10–500 MVA	ODAF/OFAF
Converter (HVDC)	Up to 800kV DC	10–500 MVA	ODAF
Shunt Reactor	66kV–765kV	10–200 MVAR	ONAN/ONAF

<p>OEM / PRODUCT LINE</p> <p>Taril: transformerindia.com 10% commission — no cap Contact GCP for project RFQ and pricing</p>	<p>GCP OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONTACT GCP</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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Distribution & Specialty Transformers — Taril

OEM PARTNER: Taril Transformers (TARIL)

IEC 60076 | 11kV–66kV / up to 25 MVA | Furnace · Solar · Traction · Dry-Type

11kV–66kV	Up to 25 MVA	Solar/Wind	Furnace/Rectifier
Distribution Range	Distribution Max	Renewable Types	Industrial Types

OVERVIEW

Beyond large power transformers, Taril manufactures distribution transformers (11kV–66kV, up to 25 MVA), furnace and rectifier transformers for steel and industrial processes, solar and wind renewable application transformers (inverter-duty, harmonic-rated), and trackside traction transformers for railway systems. All products manufactured in Taril's vertically integrated facility with in-house core cutting, winding, tank fabrication, and full testing.

KEY HIGHLIGHTS

- Distribution transformers for utility substations (11kV–66kV)
- Hermetically sealed and conservator-type oil-immersed units
- Furnace transformers — arc, induction, and ladle furnace applications
- Rectifier transformers for electrolysis, traction, and industrial processes
- Solar inverter-duty and skid-mounted transformers for utility-scale PV
- Traction transformers for railway, metro, and dedicated freight corridors

SPECIFICATIONS

Distribution	11kV–66kV up to 25 MVA oil-immersed and dry-type
Furnace	Arc, induction, and ladle furnace high-current, low-voltage
Rectifier Duty	Electrolysis, traction, HVDC converter harmonic duty rated
Solar Application	Inverter-duty skid-mounted variable frequency rated
Traction	Railway and metro RDSO and CORE approved
Dry-Type	Cast resin and VPI dry-type distribution transformers available

PRODUCT MATRIX

Product	Voltage Range	Rating	Application
Distribution Transformer	11kV–66kV	Up to 25 MVA	Utility substation
Furnace Transformer	6kV–33kV	Up to 100 MVA	Steel, arc, induction furnace
Rectifier Transformer	3kV–33kV	Up to 50 MVA	Electrolysis, traction
Solar Transformer	11kV–66kV	Up to 10 MVA	PV inverter duty
Traction Transformer	25kV single-phase	Up to 5 MVA	Railway electrification

<p>OEM / PRODUCT LINE</p> <p>Taril: transformerindia.com Contact GCP for RFQ Dry-type, furnace, solar, and traction transformers available</p>	<p>GCP OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONTACT GCP</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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SECTION 3 · DISTRIBUTION TRANSFORMERS

UL-Listed Padmount & Pole-Top · Up to 44kV / 10 MVA · Korea-Built

Daelim is GCP Energy's authorized Korean distribution transformer partner — UL/cUL/CSA certified padmount and pole-top transformers to full ANSI/IEEE standards. 300+ units/month capacity.

› 3-Phase Padmount — 75 kVA to 10 MVA	› 1-Phase Padmount — 15–250 kVA	› 1-Phase Pole-Top — Conventional & CSP
› 3-Phase Pole-Top — 15–500 kVA	› FR3 Vegetable Oil Option	› Dead-Front & Live-Front
› 200/600/900A Bushing Wells	› DOE 2016 Compliant	

OEM PARTNER: Daelim (Korea)

IEEE C57.12.34 · ANSI/IEEE · UL Listed | Up to 44kV / 10 MVA | Korea | 8–14 Week Lead Time

Up to 44kV	75 kVA–10 MVA	UL/cUL/CSA	8–14 Wks
HV Voltage	3-Phase Padmount	Certified	Custom Lead Time

OVERVIEW

Daelim is GCP Energy's authorized distribution transformer partner — a globally recognized Korean manufacturer producing UL-listed padmount and pole-mounted transformers to full ANSI/IEEE and CSA standards. Three-phase padmount transformers from 75 kVA to 10,000 kVA at up to 44kV, with dead-front and live-front configurations, 200A/600A/900A bushing wells, and FR3 vegetable oil options. GCP is pursuing stocking operations for in-demand distribution transformer SKUs.

KEY HIGHLIGHTS

- Three-phase padmount — data centers, BESS, solar PV, utility underground distribution
- Single-phase padmount — residential and commercial underground distribution
- Single-phase pole-top conventional and CSP — overhead distribution
- Three-phase pole-top — 15 kVA to 500 kVA overhead distribution
- Dead-front and live-front padmount configurations
- FR3 vegetable oil option for environmentally sensitive sites

SPECIFICATIONS

3-Phase Padmount	75 kVA–10,000 kVA (10 MVA) HV: up to 44kV dead-front & live-front
1-Phase Padmount	15 kVA–250 kVA HV: up to 24.94kV dead-front, radial or loop
1-Phase Pole-Top	10 kVA–333 kVA HV: 2.4kV–34.5kV CSP option with integrated protection
3-Phase Pole-Top	15 kVA–500 kVA ANSI/IEEE and CSA rated
Insulating Fluid	Mineral oil (ONAN) or vegetable oil (FR3/KNAN)
Bushing Wells	200A, 600A, and 900A dead-break elbow connector wells
Certifications	UL · cUL · CSA · CESI · SGS · ISO 9001 · DOE 2016
Capacity	300+ units/month 8–14 wks custom 4–8 wks standard configs

PRODUCT MATRIX

Product	Rating Range	HV Voltage	Key Standards
3-Phase Padmount	75 kVA–10 MVA	Up to 44kV	IEEE C57.12.34, CSA C227.4, DOE 2016
1-Phase Padmount	15–250 kVA	Up to 24.94kV	ANSI/IEEE C57.12.38, CSA, DOE 2016
1-Phase Pole-Top (Conv.)	10–167 kVA	2.4–34.5kV	ANSI/IEEE C57.12.20, CSA C2.1
1-Phase Pole-Top (CSP)	10–167 kVA	2.4–34.5kV	Integrated arrester, breaker, fuse
3-Phase Pole-Top	15–500 kVA	Up to 34.5kV	ANSI/IEEE, CSA, IEC 60076

OEM / PRODUCT LINE	GCP OFFICES	CONTACT GCP
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Daelim: daelimtransformer.com | Contact GCP for pricing
Stocking SKUs in development — contact Brady Jenkins

Salt Lake City, UT Houston, TX
Reno, NV

gcpenergy.us brady@gcpenergy.us
favad@gcpenergy.us



SECTION 4 · T&D; HARDWARE & PROTECTION

T&D; Hardware & Protection

Surge Arresters · Composite Insulators · Fuse Cutouts · 3kV–765kV

Arcova Energy is GCP's authorized T&D; hardware partner competing directly with Hubbell, MacLean, PLP, and TE. GCP maintains a 170+ product cross-reference for Hubbell, MacLean, and Alumaform equivalents.

› Distribution Arresters 3kV–36kV MCOV	› Station Class Arresters to 198kV	› Composite Line Post Insulators
› Suspension & Deadend Insulators to 765kV	› Fuse Cutouts — 38kV / 200–300A	› T&D; Line Hardware
› 170+ SKU Cross-Reference		

Surge Arresters, Insulators & T&D; Hardware — Arcova

OEM PARTNER: Arcova Energy Solutions

IEEE C62.11 · ANSI C37.41 · IEC 60099-4 | 3kV–765kV | 170+ SKU Cross-Reference

3kV–198kV Arrester MCOV Range	10kV–765kV Insulator Range	Up to 38kV Cutout Rating	170+ SKUs GCP Cross-Ref
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OVERVIEW

Arcova Energy is GCP's authorized T&D; hardware partner competing directly with Hubbell, MacLean, PLP, and TE. GCP Energy maintains a 170+ product cross-reference covering Arcova equivalents to Hubbell, MacLean, and Alumaform for streamlined utility and EPC procurement. Distribution through transmission class — arresters, composite insulators, fuse cutouts, and line hardware.

KEY HIGHLIGHTS

- Distribution class ZnO gapless polymer surge arresters — 3kV to 36kV MCOV
- Station class surge arresters — up to 198kV MCOV transmission grade
- Composite polymer line post, pin, suspension, and deadend insulators to 765kV
- Fuse cutouts — 38kV / 200A–300A / porcelain and polymer body
- T&D; line hardware — clevises, eye bolts, suspension clamps, vibration dampers
- Direct cross-reference to Hubbell, MacLean, and Alumaform SKUs

SPECIFICATIONS

Distribution Arresters	3kV–36kV MCOV polymer ZnO IEEE C62.11 / IEC 60099-4
Station Class Arresters	Up to 198kV MCOV polymer-housed station, intermediate, dist.
Composite Insulators	10kV–765kV polymer line post, pin, suspension, deadend
Fuse Cutouts	Up to 38kV 200A and 300A porcelain and polymer body
Line Hardware	Clevises, brackets, guy strain insulators, dampers — hot-dip galvanized
GCP Cross-Ref	170+ products — Hubbell, MacLean, Alumaform equivalents available
Standards	IEEE C62.11 · ANSI C37.41/C37.42 · IEC 60099-4 / 60383

PRODUCT MATRIX

Product	Voltage / Rating	Standard	OEM Equivalent
Distribution Arrester	3kV–36kV MCOV	IEEE C62.11	Hubbell, Eaton, S&C;
Station Class Arrester	Up to 198kV MCOV	IEEE C62.11	ABB, Siemens, Cooper
Line Post Insulator	10kV–230kV	ANSI / IEC 60383	Hubbell, MacLean, PLP
Suspension Insulator	Up to 765kV	ANSI / IEC 60305	MacLean, PLP, TE
Fuse Cutout	Up to 38kV / 200–300A	ANSI C37.41/42	Hubbell, Cooper/Eaton

OEM / PRODUCT LINE Arcova: arcova.energy GCP 170+ product cross-reference available Hubbell, MacLean, Alumaform cross-reference on request	GCP OFFICES Salt Lake City, UT Houston, TX Reno, NV	CONTACT GCP gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us
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SECTION 5 · TOWERS & STRUCTURES

Towers & Structures

Lattice Towers 66kV–765kV · Monopoles · Solar · Rail · Road · 20,000+ MT/yr

Vankal Cables & Transmission — hot-dip galvanized steel towers, monopoles, solar mounting, railway OHE, and road gantry infrastructure. DuraTrans / DuraMast / DuraSolar / DuraRail brands.

› Lattice Towers 66kV–765kV (DuraTrans)	› Steel Monopoles — Transmission & Telecom	› High Masts to 40m (DuraMast)
› Solar Mounting (DuraSolar)	› Railway OHE (DuraRail)	› Road Gantries

Transmission Towers, Monopoles & Structures — Vankal

OEM PARTNER: Vankal Cables & Transmission (India)

IS 2062 · ASTM A572 | 66kV–765kV Lattice · Monopoles · Solar · Rail · Road | 20,000+ MT/yr

66kV–765kV <small>Transmission Towers</small>	20,000+ MT/yr <small>Manufacturing Capacity</small>	DuraSolar <small>Solar Structures</small>	DuraRail <small>Railway Approved</small>
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OVERVIEW

Vankal manufactures hot-dip galvanized fabricated steel transmission towers, monopoles, solar mounting structures, railway OHE structures, and road gantry infrastructure under the DuraTrans, DuraMast, DuraRail, and DuraSolar brands from a Central India facility with 20,000+ MT/year capacity. GCP Energy provides North American procurement advisory for utility-scale transmission, substation, and renewable energy structural requirements.

KEY HIGHLIGHTS

- Lattice transmission towers — 66kV through 765kV (DuraTrans)
- Steel monopoles — single-circuit transmission, telecom, and distribution
- High masts to 40 meters — stadium, highway, airport lighting (DuraMast)
- Solar mounting structures — C/Z channel, sigma, angle for utility-scale PV (DuraSolar)
- Railway OHE masts — CORE and RVNL approved for freight corridors (DuraRail)
- Traffic gantries and road infrastructure — F-type cantilevers and highway signage

SPECIFICATIONS

Lattice Towers	66kV–765kV suspension, tension, angle, terminal twin/quad/hex conductor
Monopoles	Transmission, telecom, distribution monopoles galvanized steel
High Masts	Up to 40 meters stadium, highway, airport, and urban installations
Solar Structures	C/Z Channel, equal angle, sigma, purlins utility-scale PV
Railway Structures	OHE masts CORE and RVNL approved dedicated freight corridors
Manufacturing	Hot-dip galvanized per IS 2062 / ASTM A123 20,000+ MT/year

PRODUCT MATRIX

Product	Brand	Application	Standards
Lattice Tower	DuraTrans	66kV–765kV HV/EHV transmission	IS 2062, ASTM A572
Monopole	DuraMast	Transmission, telecom, distribution	ASTM A572, IS 2062
High Mast	DuraMast	Stadium, highway, industrial	IS 2062
Solar Structure	DuraSolar	Utility-scale PV mounting	IS 2062, ASTM
Railway OHE Mast	DuraRail	Mainline & metro electrification	RDSO/CORE/RVNL
Traffic Gantry	–	Highway and road infrastructure	MORTH / project spec

<p>OEM / PRODUCT LINE</p> <p>Vankal: vankal.in Contact GCP for North American procurement Transmission RFQ: drawings, conductor schedule, and line data required</p>	<p>GCP OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONTACT GCP</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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SECTION 6 · INFRASTRUCTURE HARDWARE

Infrastructure Hardware

440V–800kV Hardware Fittings · HTLS · OPGW · AB Cable · 45+ Countries

IAC Electricals (Kolkata, India) — 150,000 sq. ft. facility · 45+ country export reach · IEC/ASTM/BS/DIN certified insulator fittings, HTLS conductor accessories, and OPGW/ADSS hardware.

› Insulator Fittings — 440V to 800kV	› Phase Conductor Suspension & Tension Clamps	› Ground Wire & OPGW Hardware
› HTLS — ACCC/ACSS/ACCR Accessories	› AB Cable Accessories	› Distribution Line Fittings

Power Infrastructure Hardware — IAC Electricals

OEM PARTNER: IAC Electricals Pvt Ltd (India)

IEC · ASTM · BS · DIN | 440V–800kV | T&D; Fittings · HTLS · OPGW | 45+ Countries

440V–800kV	150,000 sq ft	45+ Countries	IEC/ASTM/DIN
Voltage Range	Manufacturing	Export Reach	Standards

OVERVIEW

IAC Electricals is GCP's authorized partner for T&D; hardware fittings — supplying EPCs, utilities, and OEMs in 45+ countries from a 150,000 sq. ft. facility in Kolkata, India. Product range covers insulator hardware for all voltage classes from LV through 800kV EHV, HTLS conductor accessories, OPGW cable hardware, AB cable accessories, and complete distribution line fitting systems. All products meet IEC, ASTM, BS, and DIN standards with in-house lab testing.

KEY HIGHLIGHTS

- Insulator hardware fittings for phase conductors — 440V through 800kV
- Ground wire and OPGW hardware fittings — all voltage classes
- HTLS conductor accessories — ACCC, ACSS, ACCR (reconducting projects)
- OPGW and ADSS fiber optic cable accessories and suspension hardware
- AB cable and covered conductor accessories
- Complete distribution line fittings — cross-arms, pole hardware, clamps

SPECIFICATIONS

Voltage Range	440V distribution through 800kV EHV transmission
Phase Conductor	Suspension clamps, tension clamps, vibration dampers, spacers
HTLS Accessories	ACCC, ACSS, and ACCR compatible — grid reconducting projects
OPGW/ADSS	Fiber optic cable suspension, dead-end, and splicing hardware
Distribution	Cross-arms, pole hardware, line clamps, AB cable accessories
Testing	In-house tensile, torsion, and fatigue testing to IEC/ASTM/BS/DIN

PRODUCT MATRIX

Product Category	Voltage Class	Key Products
Phase Conductor Hardware	440V–800kV	Suspension/tension clamps, dampers, spacers
Ground Wire Hardware	All classes	Shield wire and OPGW suspension and dead-end fittings
HTLS Conductor Accessories	66kV–765kV	ACCC/ACSS/ACCR compatible clamps and hardware
OPGW Accessories	All classes	Fiber suspension, dead-end, in-line splice hardware
Distribution Line Fittings	LV–33kV	Cross-arms, pole hardware, line clamps

OEM / PRODUCT LINE	GCP OFFICES	CONTACT GCP
IAC: iacelectricals.com Contact GCP for North American procurement HTLS and OPGW hardware: line data and conductor schedule required	Salt Lake City, UT Houston, TX Reno, NV	gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us



SECTION 7 · AI NERC COMPLIANCE

NERC Compliance

AI Automation · PRC-005 · CIP-002 · FAC-008 · TPL · Living RSAWs · dp:Bots

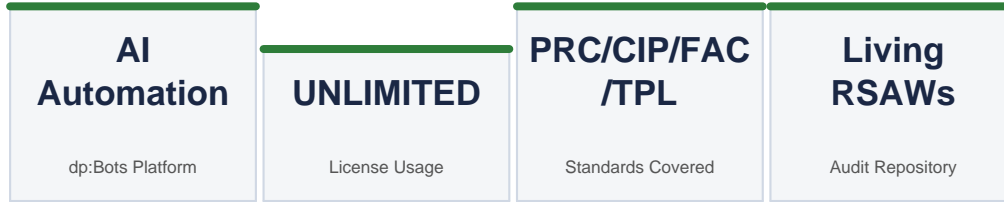
DataPhleet dp:Bots perform your most labor-intensive NERC compliance processes automatically. GCP combines 25+ years of utility EPC expertise with DataPhleet's technology.

› PRC-005 — Protection System Maintenance	› CIP-002 — Cyber Asset Categorization	› FAC-008 — Facility Ratings
› PRC-024-3 — Gen Voltage/Frequency	› TPL Series — Transmission Planning	› Living RSAWs — Always-Current Repository
› Unlimited License		

AI-Driven NERC Compliance — DataPhleet dp:Bots

OEM PARTNER: DataPhleet (dataphleet.com)

PRC-005 · CIP-002 · FAC-008 · TPL · PRC-024 | AI Automation | Living RSAWs | Unlimited License



OVERVIEW

DataPhleet's AI-driven compliance automation platform (dp:Bots) performs your most labor-intensive NERC compliance processes automatically, consistently, and faster than human teams — on a scheduled or ad-hoc basis. GCP Energy combines 25+ years of EPC and utility operations expertise with DataPhleet's technology to deliver streamlined NERC compliance, reduced audit risk, and smarter compliance programs to utilities, industrials, and data centers across North America.

KEY HIGHLIGHTS

- Automated NERC auditing — PRC-005, CIP-002, FAC-008, PRC-024-3
- Scheduled and ad-hoc compliance reporting with time-stamped outputs
- Living RSAWs — always-current compliance documentation repository
- Risk mitigation — reduce time-to-discovery of reportable issues to near-zero
- Audit readiness — strengthen compliance posture with standards organizations
- Reallocation of compliance staff from manual auditing to high-value activities

SPECIFICATIONS

Platform	dp:Bots — AI-driven compliance automation, scheduled or ad-hoc
Standards	PRC-005 · CIP-002 · FAC-008 · PRC-024-3 · PRC-028 · PRC-030 · TPL
Licensing	Unlimited use license — no per-run or per-user fees
Output	Actionable, time-stamped compliance audit reports per standard
Living RSAWs	Always-available repository of up-to-date compliance evidence
Risk Reduction	Near-zero time-to-discovery reduce consulting and auditing fees
GCP Value	25+ years utility/EPC operations expertise bridges technology to field

PRODUCT MATRIX

NERC Standard	Area	Automation Capability
PRC-005	Protection System Maintenance	Automated maintenance record auditing & gap analysis
CIP-002	Cyber Asset Categorization	BES Cyber System inventory and categorization check
FAC-008	Facility Ratings	Rating documentation and consistency verification
PRC-024-3	Generator Voltage/Frequency	Ride-through capability validation
TPL Series	Transmission Planning	Planning event compliance review automation
PRC-028/030	Relay Coordination	Protection coordination compliance documentation

OEM / PRODUCT LINE	GCP OFFICES	CONTACT GCP
DataPhleet: dataphleet.com GCP Energy: gcpenergy.us Contact GCP for NERC compliance consultation and DataPhleet demo	Salt Lake City, UT Houston, TX Reno, NV	gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us



SECTION 8 · REAL-TIME FAULT MONITORING

4D Thermographic · DLR · Solar PV · Transformers · Substations · 24/7

HaloPhase (Melbourne, Australia) — 24/7 continuous thermal monitoring for transformers, transmission lines, substations, and solar PV. GCP is authorized North American representative.

› 4D Thermographic Asset Monitoring	› Power Transformer Monitoring	› Dynamic Line Rating (DLR)
› Solar PV Monitoring	› Substation Thermal Profiling	› Pre-Fault Detection

OEM PARTNER: HaloPhase Pty Ltd (Melbourne, Australia)

24/7 Real-Time · Transformers · Transmission Lines · Substations · Solar PV · DLR

24/7 Real-Time	4D Thermogr aphic	Up to 25%	DLR Capable
Monitoring	Sensing	Solar Loss Recovery	Line Rating

OVERVIEW

HaloPhase provides continuous, real-time thermal monitoring and fault detection for critical power infrastructure — power transformers, substations, transmission and distribution lines, and utility-scale solar. Unlike periodic IR thermography (typically annual or semi-annual), HaloPhase’s 4D thermographic sensing delivers 24/7 automated monitoring that detects pre-fault conditions before failure occurs. GCP Energy is the authorized North American representative for HaloPhase.

KEY HIGHLIGHTS

- Power transformer continuous thermal monitoring — bushing, LTC, cooling, arrester
- Transmission conductor real-time ampacity (Dynamic Line Rating — DLR)
- Utility-scale solar PV module-level performance and fault monitoring
- Substation equipment thermal profiling — transformers, switchgear, bus
- Distribution line hotspot detection — conductor joints, connectors, splices
- Data center campus MV/HV equipment monitoring and predictive maintenance

SPECIFICATIONS

4D Thermographic	Integrates spatial, temporal, and spectral data — beyond conventional IR
Dynamic Line Rating	Real-time transmission conductor ampacity — relieve grid congestion
Solar PV Monitoring	Full system analysis module-level faults up to 25% loss recovery
Transformer Monitoring	Continuous profiling — bushings, LTC, cooling, lightning arrestors
vs. Periodic IR	Traditional: annual/semi-annual HaloPhase: 24/7 continuous, pre-fault
GCP Role	Authorized North American representative for HaloPhase Pty Ltd, Melbourne AUS

PRODUCT MATRIX

Monitoring Capability	Asset Type	Key Benefit
4D Thermographic Sensing	All monitored assets	Pre-fault detection vs. reactive IR inspection
Dynamic Line Rating (DLR)	Transmission conductors	Relieve congestion; reduce renewable curtailment
Solar PV Monitoring	Utility-scale PV arrays	Up to 25% power loss recovery; module-level ID
Transformer Monitoring	Power transformers	Bushing, LTC, cooling continuous profiling
Substation Thermal	Switchgear, bus, arresters	24/7 automated hotspot detection

<p>OEM / PRODUCT LINE</p> <p>HaloPhase: halophase.com info@halophase.com GCP North American rep: brady@gcpenergy.us</p>	<p>GCP OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONTACT GCP</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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SECTION 9 · GCP ENERGY SERVICES

Testing & Commissioning · Engineering Consulting · Procurement Advisory · 30MW PowerBlock

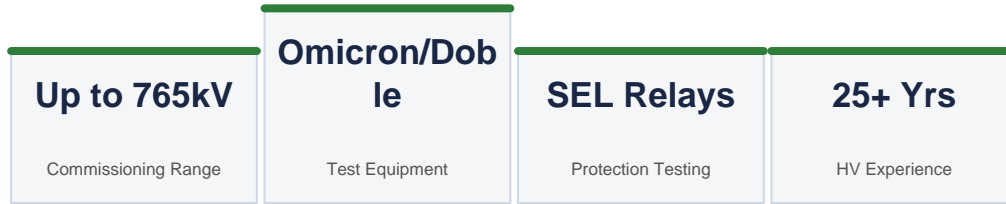
GCP Energy internal services draw on 25+ years of high-voltage expertise — substation testing, power system engineering, equipment procurement advisory, and the X30 Series 30MW Power Block.

› HV Testing & Commissioning — up to 765kV	› SEL Relay Testing & Commissioning	› Transformer FAT/SAT — Omicron/Doble/Megger
› Power System Engineering Consulting	› Grid Modernization & Renewable Integration	› Equipment Procurement Advisory
› 30MW Power Block (X30 Series)	› 228MW Invictus Sovereign Project	

HV Testing & Commissioning

OEM PARTNER: GCP Energy LLC — Internal Service

Up to 765kV · SEL Protection Relays · Omicron / Doble / Megger · 25+ Years Experience



OVERVIEW

GCP Energy provides comprehensive substation and high voltage transformer testing and commissioning services using Omicron, Doble, and Megger test equipment. Brady Jenkins brings 25+ years of specialized HV testing experience spanning Journeyman Substation Technician through OEM field service engineering at Omicron, Hubbell, and ABB, and SVP of North American Operations at SHEMAR Electric. Testing spans 15kV distribution through 765kV EHV substation commissioning.

KEY HIGHLIGHTS

- Power transformer acceptance testing — FAT and SAT per IEC 60076/C57.12.90
- SEL protection relay testing, configuration, and commissioning
- Breaker timing, contact resistance, and insulation resistance testing
- Transformer DGA and power factor testing
- Substation commissioning — 69kV through 765kV new build and upgrade
- CT/PT ratio and polarity testing, relay coordination verification

SPECIFICATIONS

Voltage Range	Distribution (15kV) through EHV (765kV) substation commissioning
Test Equipment	Omicron CMC · Doble power factor · Megger insulation resistance
Relay Testing	SEL relay commissioning · coordination · NERC PRC-005 documentation
Transformer Testing	FAT and SAT · DGA · power factor · turns ratio · winding resistance
Certifications	IPSA Journeyman Electrician · OSHA 30-Hour · NFPA 70E · IEEE member
Experience	Murray City Power · Bountiful City LP · Omicron · Hubbell · ABB · SHEMAR

PRODUCT MATRIX

Service	Equipment	Scope
Transformer FAT/SAT	Omicron/Doble	IEC 60076 / IEEE C57.12.90 — factory and site
SEL Relay Commissioning	Omicron CMC	Testing, configuration, coordination verification
Breaker Testing	Omicron/Megger	Timing, contact resistance, insulation, SF6
Transformer DGA	Kelman/Doble	Dissolved gas, power factor, turns ratio
Substation Commissioning	Full suite	15kV–765kV new build and upgrade

OEM / PRODUCT LINE	GCP OFFICES	CONTACT GCP
GCP Testing: gcpenergy.us/testing Contact Brady Jenkins: brady@gcpenergy.us	Salt Lake City, UT Houston, TX Reno, NV	gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us

OEM PARTNER: GCP Energy LLC — Internal Service

Grid Modernization · EPC Support · Equipment Sourcing · 30MW PowerBlock Platform

\$100M+	228MW	30MW PowerBlock	End-to-End
Pipeline	Active Project	Gen Platform	Advisory Scope

OVERVIEW

GCP Energy provides end-to-end power system engineering consulting and procurement advisory — drawing on the full OEM partner network spanning transformers, cable, towers, NERC compliance, and real-time monitoring. The GCP 30MW Power Block (X30 Series) is a modular gas turbine platform for rapid data center deployment. The 228MW Invictus Sovereign project (6x38MW gas turbines, Salt Lake City) is the flagship active deployment with Quanta Services (EPC) and TRC Companies (Owner’s Engineer).

KEY HIGHLIGHTS

- Equipment procurement advisory — transformers, switchgear, MV/LV cable, breakers
- Grid modernization engineering — renewable integration, BESS, grid resilience
- Data center power infrastructure — utility POD, padmount transformers, MV cable
- 30MW Power Block (X30 Series) — modular gas turbine platform for data centers
- 228MW Invictus Sovereign Power Block — 6x38MW gas turbines, SLC Utah
- Factory visit facilitation — Taril (Ahmedabad), Mirabel (South Korea)

SPECIFICATIONS

Procurement Advisory	Transformers, switchgear, MV/LV cable, breakers, compliance, monitoring
Grid Engineering	Modernization, renewable integration, BESS, data center POD design
30MW PowerBlock	X30 Series — modular 30MW gas turbine; data center ready
228MW Project	Invictus Sovereign — 6x38MW · EPC: Quanta · OE: TRC Companies
Off-Taker	Aligned Data Centers — SLC-03 · NAES Corporation — O&M;
OEM Network	Mirabel · Taril · Daelim · Arcova · Vankal · IAC · DataPhleet · HaloPhase

PRODUCT MATRIX

Service Area	Scope	Key Partners
Transformer Procurement	Large power & distribution transformers	Taril / Daelim
Cable Procurement	MV/HV/LV/Fiber — stocked 3 cities	Mirabel Energy USA
T&D; Hardware	Surge arresters, insulators, towers	Arcova / Vankal / IAC
NERC Compliance	AI-automated auditing and reporting	DataPhleet / GCP
Asset Monitoring	4D thermal / DLR / solar PV	HaloPhase / GCP
30MW PowerBlock	Modular gas turbine — data center power	GCP X30 Series

OEM / PRODUCT LINE	GCP OFFICES	CONTACT GCP
GCP Energy Services: gcpenergy.us/services Contact: brady@gcpenergy.us favad@gcpenergy.us	Salt Lake City, UT Houston, TX Reno, NV	gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us



PRICING · AVAILABILITY · PROJECT SUPPORT

GCP Energy LLC is your single-source authorized OEM representative for transformers, cable, towers, surge protection, NERC compliance, fault monitoring, and full EPC procurement advisory across North America.

<p>BRADY JENKINS Co-Founder & Chief Electrical Engineer Western U.S. — Salt Lake City, UT</p> <p>25+ years HV utility expertise. MV/HV cable, mining cable, power transformers, testing & commissioning, and Western U.S. project procurement.</p> <p>brady@gcpenergy.us gcpenergy.us</p>	<p>FAVAD JANJUA Co-Founder & Managing Partner Southern & Central U.S. — Houston, TX</p> <p>Gulf Coast and Southern U.S. relationships. MV/HV cable, transformer procurement, fiber optic, and Houston-stocked inventory.</p> <p>favad@gcpenergy.us gcpenergy.us</p>
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OEM PARTNER NETWORK

Mirabel Energy USA — Wire, Cable & Fiber	Taril Transformers — Power Transformers to 1200kV
Daelim — Padmount & Pole-Top Distribution Transformers	Arcova Energy — Surge Arresters, Insulators, Cutouts
Vankal Cables — Transmission Towers & Structures	IAC Electricals — Power Infrastructure Hardware to 800kV
DataPhleet — AI NERC Compliance Automation	HaloPhase — 4D Thermographic Fault Monitoring

<p>GCP ENERGY LLC</p> <p>Authorized OEM Representative North American Power Infrastructure</p>	<p>OFFICES</p> <p>Salt Lake City, UT Houston, TX Reno, NV</p>	<p>CONNECT</p> <p>gcpenergy.us brady@gcpenergy.us favad@gcpenergy.us</p>
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