North America

Customer Event Steam Turbine and Generators 2023

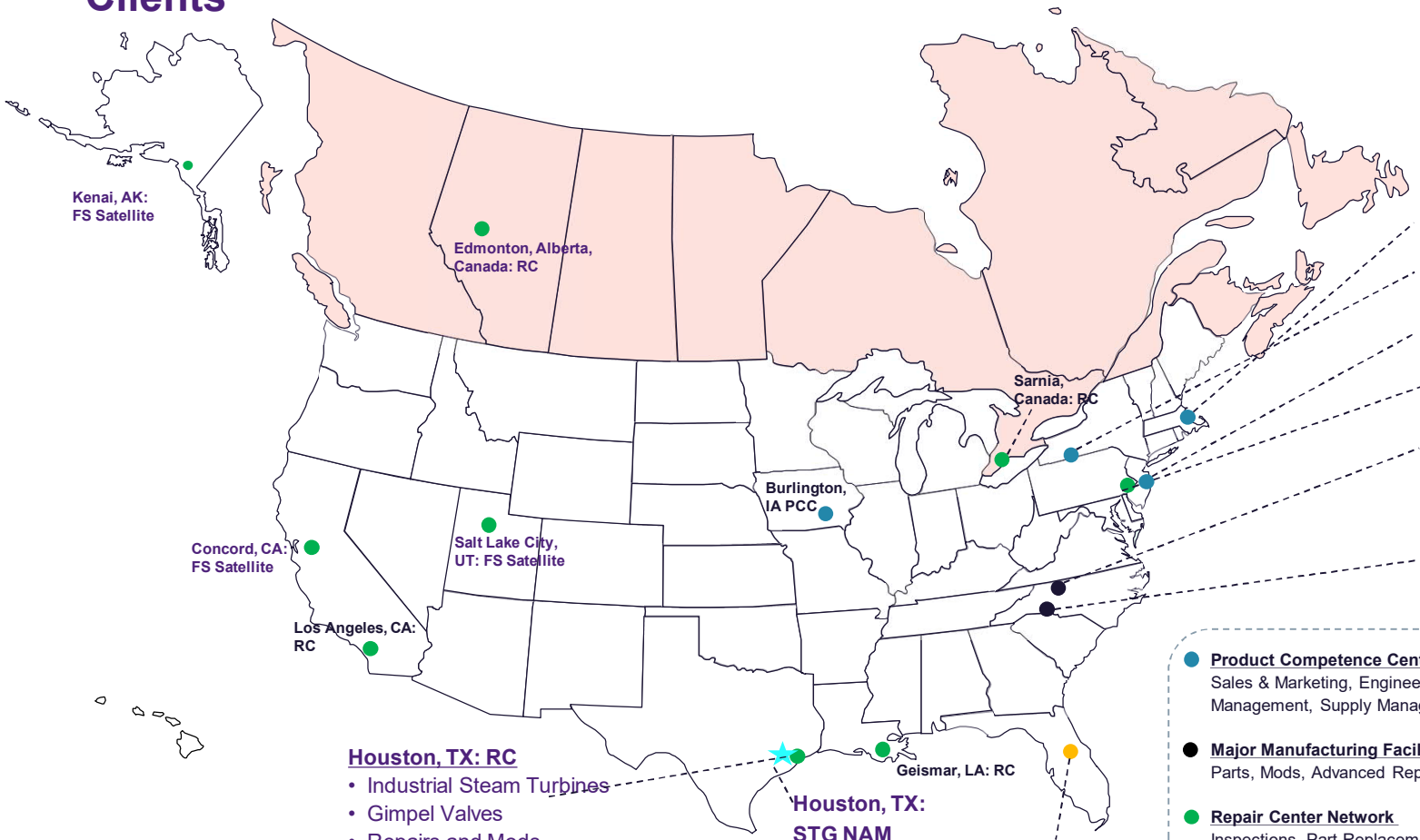


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Region North America: We are where you are

Expanded Network of World-Class Facilities within Close Proximity of Our Clients



Devens, MA (Product Competence Center - STG)

Wellsville PCC Located in Olean, NY (Product Competence Center - STG)

Trenton, NJ (Product Competence Center - STG)

Horsham, PA: RC

Winston-Salem, NC
- Sm. Industrial Steam Turbines
- Sm. Aftermarket Parts, Mods

Charlotte, NC
- M/L Industrial Steam Turbines
- M/L Aftermarket Parts, Mods. Advanced Repairs

Houston, TX: RC
- Industrial Steam Turbines
- Gimpel Valves
- Repairs and Mods

Orlando, FL: LC
- FAST Logistics Center
- Inventory Management

Product Competence Centers
Sales & Marketing, Engineering, Order Management, Supply Management

Major Manufacturing Facilities
Parts, Mods, Advanced Repairs

Repair Center Network
Inspections, Part Replacement, Minor Repairs

Access to a vast global repair network of know-how and equipment



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Region North America: We are where you are
Steam Turbine & Generator Service Portfolio



Parts

Recommended Parts Lists

Consumables, Replacement & Spare Parts



Revamps & Upgrades

Performance & Reliability Improvements

Remote Diagnostics
Trip Upgrades
Aux Systems



Repairs & Field Service

World Class Repair Centers and Field Service Capabilities
New Equipment Commissioning & Start-up Services



Replacements

Complete New Replacements & Footprints for OEM & oOEM (MHI/GE)

Generator Replacements



Service Programs

Flex LTP
Performance Based LTP's
Long-Term Maintenance Plans

Comprehensive Solutions Portfolio to Help our Clients Unleash the Power of their Energy Assets

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Region North America: We are where you are
Total Fleet Ownership

SIEMENS energy

STG Legacy Siemens

STG North America

Essen / Nuremberg

SST-200
SST-300
SST-400
SST-500
SST-600 G&V
SST-600 BB (Building Block)
SST-600 EP (Enhanced Platform)
SST-800
AEG
Austrian Energy (AE)
BBC
Delaval
GMB
G&V
KR
MAN
Muelheim Industrial (PG O)
Old Kanis Single Stage
TuW-0
TuW-1
TuW-2
TuW-3
TuW-4
TuG-5
TuG-6
TuW-7/-B1
TuG-8

Former Siemens Licencees
BHEL, India
HTC, China
GE NP, Italy

Finspång

SST-700 (VAX, ST6)
SST-900 (ATP, ST5)
Marine
Radial Flow Turbine
TG
TM
VAX

Heat Pumps

Essen Generator

Generator* (2-pole)
Generator* (4-pole)

* air-cooled only

Brno

SST-200
SST-300
SST-400
SST-600 G&V
G&V
KR
Old Kanis Single Stage
Old PBS

Jundiai

SST-050
SST-100
SST-200
SST-300
SST-400
SST-600 G&V
Brazil Single Stage
G&V
TuW-3
TuW-7

Trenton-Hamilton

Delaval BFPT
Delaval Series
(G,H,K,L,M,N,R,T,W,X,Y)
Westinghouse

Baroda (Vadodara)

SST-050
SST-150
SST-200
SST-300
SST-600 G&V

Huludao

SST-150
103JT

Up to 250 MW and 2,235 MVA

STG Legacy D-R

Oberhausen

Terry Design
B, C, ES, V, Z-Line
GS(A), GAF, GLT

Kuhnert Design
TW, 2TA, GTW, AVT

Coppus Design
RL(A)

Nadvrowski

Le Havre

Worthington Design
RN Series (s), SN (s)

Moore / Turbodyne
U2R (s), S2R (s), R2R (s),
R3R (s), S2RHA, T2R (s)

Dresser-Rand Design
300 (s), 500 (s), 700 (s)
700 gas (s)

All multi-stage steam turbines
(Worthington FR heritage)

Wellsville

Worthington
183 Series (s), 283 (s)

Dresser-Rand Design
300 (s), 500 (s), 700 (s)

Coppus Design
RLA, RLVA, RLHA/B (s), TF

All multi-stage steam turbines
(Worthington US heritage)

Moore
Terry
Turbodyne

Burlington

K Series (s)
U (s)
R (s)
Murray

Gimpel -Houston

Gimpel Valves
TMTTV
INTTV
OOTV
OOTTV
EHTTV
SDNRV

Up to 100 MW

SIEMENS · MURRAY STEAM TURBINES · ABB
DRESSER-RAND · DELAVAL
COPPUS ENGINEERING · Turbodyne · BBC BROWN BOVERI
WORTHINGTON · MOORE · AEG-KANIS TURBINENFABRIK GMBH
Westinghouse · TERRY STEAM TURBINE CO. · ALSTOM
FR · Gimpel Valve

NAM Markets Served:

- Power Generation
- Oil & Gas
- Chemical
- Iron & Steel
- Pulp & Paper
- Food & Beverage

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Region North America: North America Service Centers Advanced Repair Capabilities



Typical Repair Scope:

- DCI (Disassemble, Clean and Inspection)
- Machining
- Installation & fitting of new parts
- Renewal of sealing strips
- Re-blading

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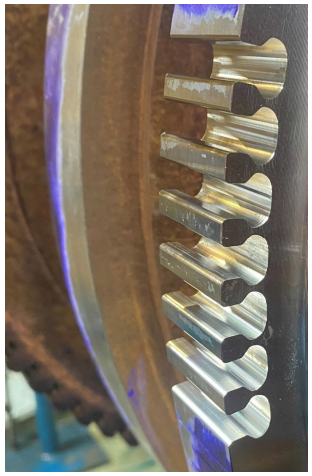
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Region North America
North America Service Centers: Advanced Repair Capabilities



1. Rotor and Component CA TIG-Welding





2. Large CNC 5-axis Lathe Machining Operation

- Turning/Milling/Grinding
- Live tooling capable of Axial Entry Curved blade root geometry machining



3. ST Blading Cell (Cold & Hot Peening)



4. Vertical Stress Relief



5. Oven for Stacking of Coated Rotors

6. Rotor balancing

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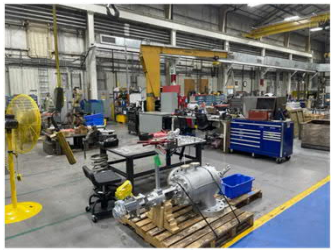
Region North America
We are where you are: Factory, Gimpel Valves Manufacturing & Repairs

SIEMENS energy

41,000 sq. ft. Manufacturing Facility

- Over 50 years of experience designing, manufacturing and servicing trip, trip throttle and non-return valves for steam turbine drives
- Gimpel valves are designed and manufactured in accordance with rigorous industry standards including:
  - API 611 and 612
  - ASME/ANSI B16.34 and B16.5
  - NEMA SM 23/24
  - ASME boiler and pressure vessel code
- Extensive knowledge and experience in:
  - Engineering
  - Project Management
  - Technical Support
  - Spare Parts







TMTTV
40's/50's

Gimpel Valve



OOTTV
70's/80's



EHTTV
2014/2015

The facilities follow LEAN manufacturing principles and are committed to a Zero Harm culture with respect to safety, quality, on-time delivery rates and the environment.

Gimpel Valve Repairs

- Specialized resources delivering operational excellence by following OEM standards
- Ability to Overhaul multiple valves to support complex and expedited Turnarounds
- Dedicated infrastructure for Gimpel valves overhauls
- Availability/capacity to work "Around the clock" (24/7) to meet customer needs
- Operational excellence on Project Management
- Local Engineering and Technical Support available
- Ability to produce and Repair any component from the valve on expedited basis
- Factory trained Field Service personnel





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Region North America: We are where you are
North America Field Services

Expert **Field Service Engineers** fully backed by our **Engineering & Design Teams** to offer the **Best On-site Service** possible!



Supervision or full installation of new or relocated equipment



Short/Long Term operation & maintenance solutions



Routine Service Work for all scheduled inspections



Speed of Response through local service personnel



Troubleshooting on-site & remotely for problems or unplanned outages



Emergency 24/7 call out services available 365 days per year



Hands-on Site Training for plant operators & maintenance personnel

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Key Take Aways

Strategic Locations

Within geographic proximity to critical end user markets.

One Stop Shop for ALL Your Service Needs

Siemens Energy's Service Centers network encompass full range of rotating equipment.

Your Success is Our Promise

Fully trained and skilled professionals committed to highest standards of Safety, Quality, Service, and Products.

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North America



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