



BRIDGING THE POWER GAP

A Global Leader in
Rapid-Response Mobile Rental Power

Company Presentation



About CTG



- ❑ **CTG Power Solutions LLC (CTG)** is a long-standing Tampa, Florida based private and wholly owned subsidiary of the parent company, **CTG Power Systems Intl., LLC** operating as a rapid response energy management services company focused on the deployment of short- and long-term fast-track gas turbine mobile rental power solutions anywhere in the world.
- ❑ We are a company that prides itself on a proven 30-year record of achievement providing engineering, construction, project management, logistics, startup, commissioning, plant operations and maintenance anywhere temporary power is needed.
- ❑ CTG provides clients more than 100 years of combined finance, operational, technical acumen and project management team experience in the power generation sector.
- ❑ At the forefront of our core business mission is adding value to our customers' bottom line.

The SMT130 is the economic and sustainable solution for mobile and rapid deployment power generation. The 16.5 MWe complete power plant is designed around the proven Titan™ 130 gas turbine for quick setup, global transportability and reliable operation. The SMT130 is ready to go anywhere, anytime.



Meeting Global Demand

CTG specializes in customizing its mobile power rental solutions for a wide variety of emergency, utility backup, grid stabilization, renewable, industrial and commercial applications.

Our various power solutions are designed to be competitive, environmentally responsible, scalable and tailored to meet energy production deficiencies of any customer worldwide.

CTG offers rapid response turnkey rental options and competitive pricing utilizing Solar Turbines' SMT60 and SMT130 Mobile 50/60Hz. Dual Fuel Mobile Gas Turbine Packages as well as several other smaller GT options.

Whether you require immediate or more lasting power, our flexible solutions deliver dependable and efficient electrical power when, and where you need it, for as long as you need it.



Mobile Turbines – Backbone of CTG’s Rental Fleet

COMPLETE SOLUTION

- Fully-Integrated Mobile Power Plant
- 13.8KV/12.47KV (60 Hz) Generator
- Dual Fuel System (Natural Gas and Diesel #2)
- Low Emissions SoLoNOx™ Combustion System
- Lightweight, Dual Frame Design with Separate Air Filtration Module
- Compact Footprint for High Power Density
- Low-Profile Modular Design to Minimize Installed Height
- Easily Relocatable via Highway or Rugged Terrain
- Transcontinental Transportability by Ocean Freight
- World-Class Global Customer Support Network

Solar Turbines SMT130 Mobile Gas Turbine Package

The SMT130 is the economic and sustainable solution for mobile and rapid deployment power generation. The 16.5 MWe complete power plant is designed around the proven Titan™ 130 gas turbine for quick setup, global transportability and reliable operation. The SMT130 is ready to go anywhere, anytime.



PARK, PLUG AND POWER

- Quick and Innovative Setup – Less Than 12 Hours
- No Concrete Foundation Required
- No Crane Lifts Required at Site
- Hydraulic Leveling System
- Rapid Alignment Technology

For mid-range supplemental power needs, CTG prefers to utilize Sola Turbines Inc. a proven power solutions for providing a temporary and baseload bridge to permanent power installations or for generating backup power in the wake of natural disasters, plant shutdowns, large construction or infrastructure projects, grid instability or isolated locations. Get the power you need—fast—with Solar’s SMT130 mobile aeroderivative gas turbine generator set. CTG’s mobile solutions—including trailer-mounted gas turbine generator set and containerized balance of plant—can put power on the grid within 60 days of contract execution.

SMT60 & SMT130 GT Performance Specs (ISO)

Solar Turbines

A Caterpillar Company

Powering the Future Through Sustainable, Innovative Energy Solutions

SOLAR MOBILE TURBOMACHINERY

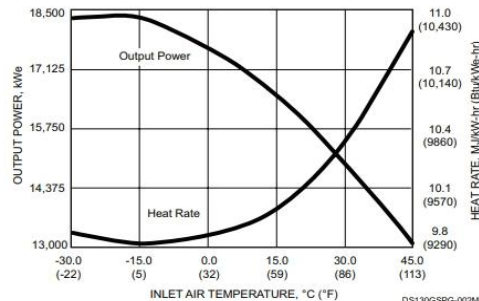
SMT130 – Powered by Titan 130

TYPICAL PERFORMANCE*

Output Power	16 530 kW
Heat Rate	10 160 kJ/kWe-hr (9630 Btu/kWe-hr)

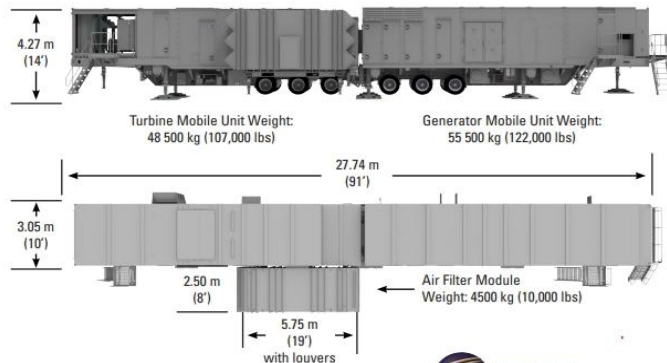
*ISO: 15°C (59°F), sea level

AVAILABLE POWER*



DS130GSPG-002M

MOBILE POWER PLANT DIMENSIONS



Note: Displayed weights shown are estimated installed weights



Additional Information:

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DSMT130/0022/10



The Solar Turbines SMT 130 is a mobile gas turbine designed for power generation and mechanical drive applications. It is known for its compact design, high efficiency, and reliability. The SMT 130 typically operates on natural gas or other gaseous fuels and is suitable for various applications, including oil and gas, industrial processes, and power plants.



Providing Customers With Scale, Purpose and Versatility

Mobile Turbines Serve Versatile Uses

Emergency Response

Natural disaster aid – rapid become essential response times and deployment capability

Bridging Power

Supporting construction of a permanent power plant and infrastructure development

Peaking Power

Extra capacity during peak demand times to satisfy shortfalls and avoid blackouts

Long-Term Stable Power

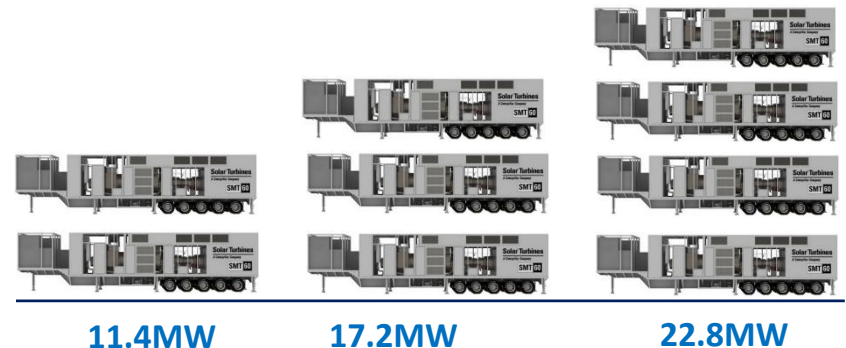
Solving grid instability and providing standalone power for remote locations

Renewables Support

Enabling microgrids and filling gaps created by intermittent renewable energy sources like solar, wind & hydro

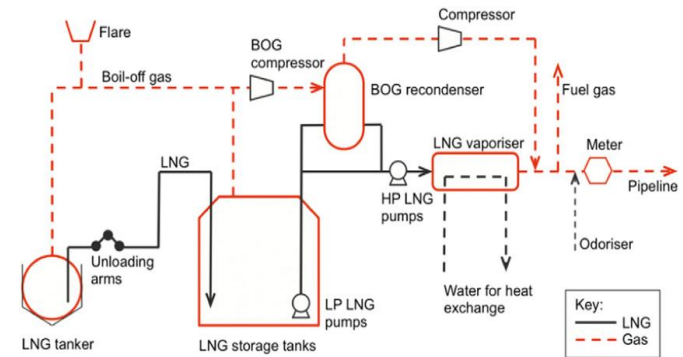
Mobile Turbines Are Easily Scalable

Solar Turbines' SMT60 & SMT 130 Mobile Units are Scalable to 200 MW+



Fuel to Power - Using Liquefied Natural Gas (LNG)

- Global energy demand is increasing. At the same time, CO₂ emissions must be reduced. The first step is towards a less carbon-concentrated future is using natural gas. Many power plants have no access to natural gas. With CTG's LNG solutions not only can we provide for fuel in remote locations or as an alternative to diesel and heavy fuel oil, we can also provide for the safe storage and on-site regasification of natural gas (LNG) where it is needed.



- Clean-burning natural gas is a critical element transitioning to a carbon-neutral future, as it requires cost-effective operation and improved use of existing gas infrastructure. The LNG proposition is a cost-effective way to transition to lower carbon power production. And, when renewables are being integrated into a grid, the flexibility of LNG can improve demand fluctuations.
- Our fuel-to-power solutions are based on flexible dual fuel or gas fired engines using highly efficient gas turbines to deliver any quantity of MW capacity. CTG will work with you on specific aspects of an LNG-to-power project by bringing the full turnkey solution. From consultation on LNG logistics through to supply contracts, unloading, storage concepts, regasification and conversion to power, we've got you covered.

Anchoring for Renewable System Efficiency

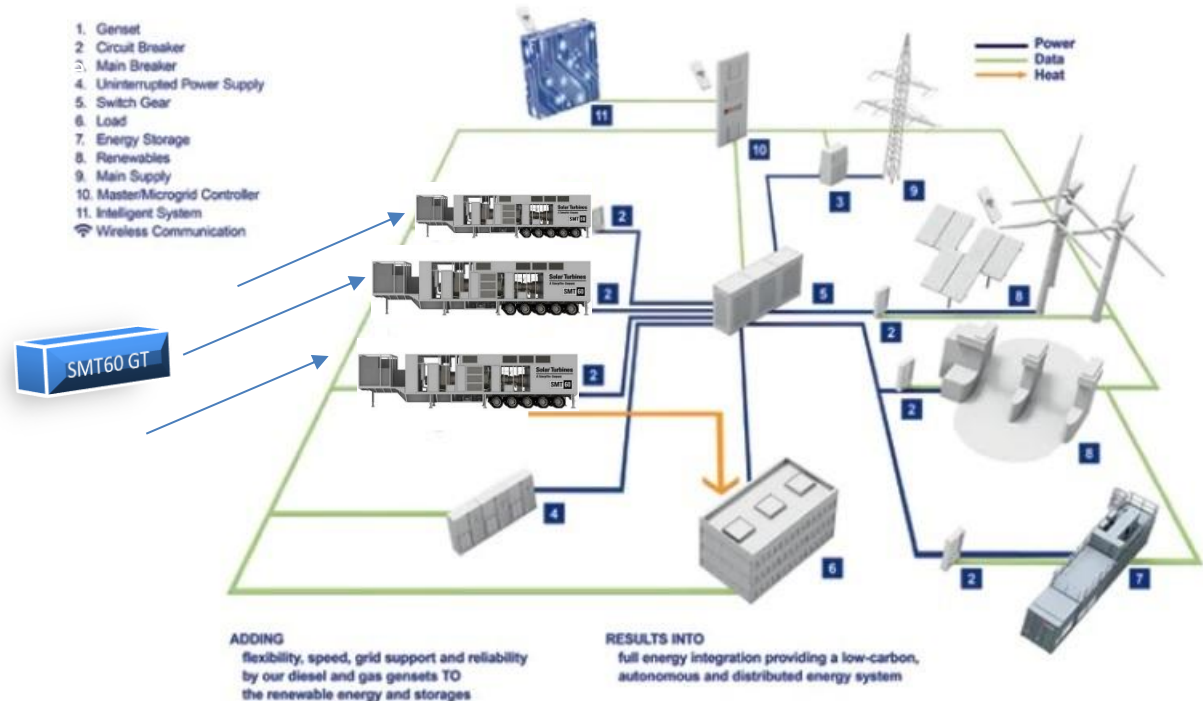
The rise of solar, battery and wind power has led to an accompanying decrease in reliability and security of supply on the grid, the need for a dispatchable quick ramp up solution is clear.

Wind and solar are typically non-dispatchable and their nameplate capacity does not always align with the grid's required power demand.

Also known as grid firming, capacity firming is a vital characteristic for any integrated microgrid power generation system. Converging market and societal forces make this the age of gas turbine microgrids

With the growth in renewables and the expected retirement of large baseload coal-fired power stations an opportunity is created to utilize the GE's TM2500+ Mobile Gas-fired technology to provide flexible, capacity firming solutions. CTG also provides Siemens and Solar Turbine T-60 as smaller 5-15MW units depending on the capacity required.

Integrated Microgrid



*"The Solar Turbines' SMT 60 and SMT130 gas turbine can serve as the anchor of many microgrids. If the plant has the ability to island, which essentially makes it a microgrid, the gas turbine is a critical part. It is the key to load control, frequency control and voltage control. It is the heart behind the microgrid."*¹

Source: 1. Daniel Fingleton, program manager for strategic growth and special projects at Solar Turbines.

Seamless Turnkey EPC and O&M Services

Expert Engineering



CTG Engineering provides feasibility design, civil, structural, mechanical and electrical engineering services for all mobile power generation projects.

Construction



Working with our project and world-class partner installation teams, customers are assured of field services, safety and quality management.

Balance of Plant (BOP)



CTG delivers a full menu of seamless turnkey solutions including specifications for total project procurement of all BOP.

Operations & Maintenance



CTG provides customized O&M lifecycle services that meet the immediate and long-term operational and capacity needs of your facility.

Project Management



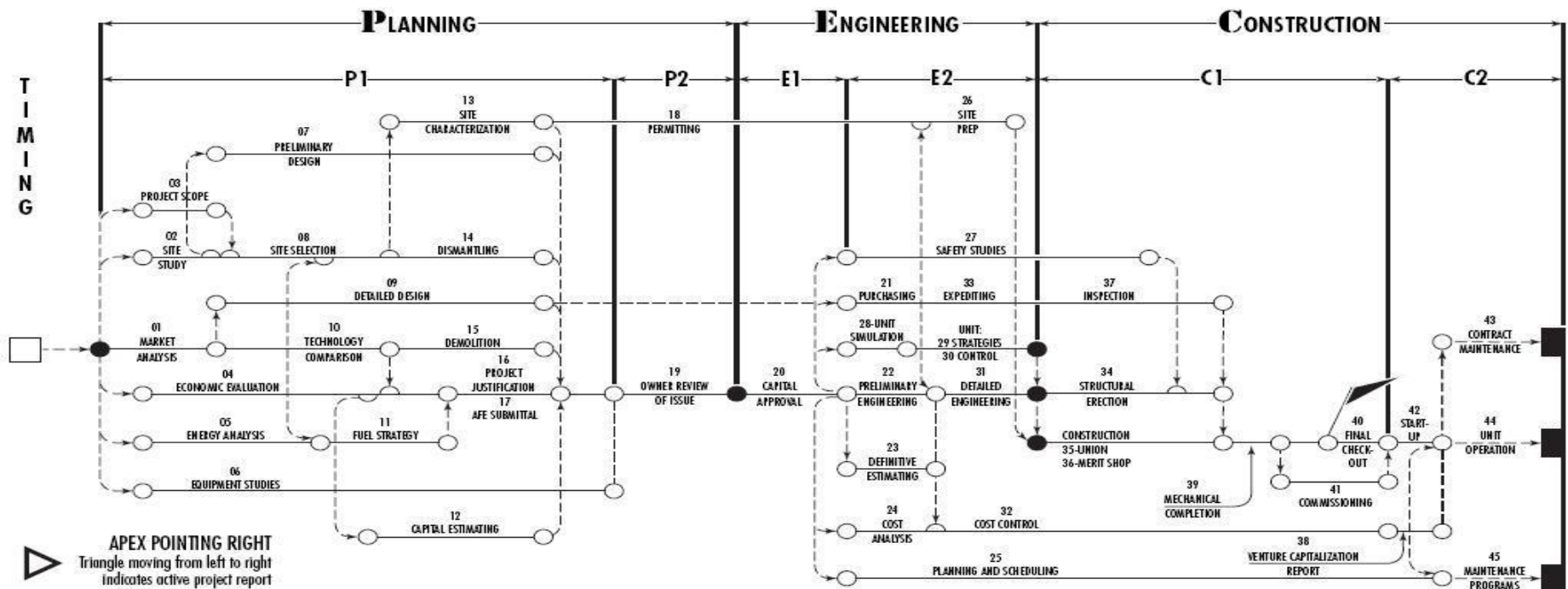
CTG's project management expertise rises to the occasion on every job site assuming an integral leadership role exceeding client satisfaction.

Long Term Service Agreements



CTG provides customers comprehensive long-term service solutions enabling our operators to optimize plant operations and minimize maintenance costs.

Example of Design, Flow & Execution



PLANNING

P1	01	MARKET ANALYSIS	16	PROJECT JUSTIFICATION
	02	SITE STUDY	17	AFE SUBMITTAL
	03	PROJECT SCOPE		
	04	ECONOMIC EVALUATION		
	05	ENERGY ANALYSIS		
	06	EQUIPMENT STUDIES		
	07	PRELIMINARY DESIGN		
	08	SITE SELECTION		
	09	DETAILED DESIGN		
	10	TECHNOLOGY COMPARISON		
	11	FUEL STRATEGY		
	12	CAPITAL ESTIMATING		
	13	SITE CHARACTERIZATION		
	14	DISMANTLING		
	15	DEMOLITION		

P2	18	PERMITTING
	19	OWNER REVIEW OF ISSUE

ENGINEERING

E1	20	CAPITAL APPROVAL
E2	21	PURCHASING
	22	PRELIMINARY ENGINEERING
	23	DEFINITIVE ESTIMATING
	24	COST ANALYSIS
	25	PLANNING AND SCHEDULING
	26	SITE PREPARATION
	27	SAFETY STUDIES
	28	UNIT SIMULATION
	29	UNIT STRATEGIES
	30	UNIT CONTROL
	31	DETAILED ENGINEERING
	32	COST CONTROL
	33	EXPEDITING

CONSTRUCTION

C1	34	STRUCTURAL ERECTION
	35	CONSTRUCTION-UNION
	36	CONSTRUCTION-MERIT SHOP
	37	INSPECTION
	38	VENTURE CAPITALIZATION REPORT
	39	MECHANICAL COMPLETION
	40	FINAL CHECK-OUT
	41	COMMISSIONING

C2	42	START-UP
	43	CONTRACT MAINTENANCE
	44	UNIT OPERATION
	45	MAINTENANCE PROGRAMS(MRO)*

* MAINTENANCE-REPAIR-OVERHAUL

OUR TEAM

OUR STRENGTH IS IN OUR VALUES AND OUR PEOPLE



A GREAT TEAM

Our workplace is global with our company composed of a multinational team of industry-leading engineers, technicians and professionals, who not only have the right skills, but the right attitude.

PROVIDING MORE THEN A SOLUTION

Our goal is to provide intrinsic value, going well beyond the boundaries of just the project to include personal dedication and problem solving empowering our highly experienced team to deliver a positive client experience.

WE PURSUE EXCELLENCE

The relentless pursuit of invention and superior service is the philosophy that drives CTG's corporate culture. A commitment to excellence places the needs of our clients at the core of our business decisions.

ITS ALL ABOUT TEAMWORK

Working collaboratively, our client relationships are built on transparency, trust and integrity allowing us to deliver on our promises on time and on budget, regardless of the scale or complexity of the project.



.....and working together for the common good of improving the lives of people worldwide by providing reliable access to efficient, cost-effective energy.



We Thank Our Previous Customers & Partners
For Their Trust & Confidence In Us



THE CHUGOKU ELECTRIC POWER CO., INC.



CTG combines real world experience with seamless project execution and client satisfaction. It's all about trust, commitment and partnership. A better way to do business.



For Short- or Long-Term Mobile Rental Power Generation, Let CTG Exceed Your Expectations

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Mobile Rental Power
is the Smarter Solution

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