

## REFERENCE BOOK

### PROJECTS

# Energy Systems Southeast

## About Us

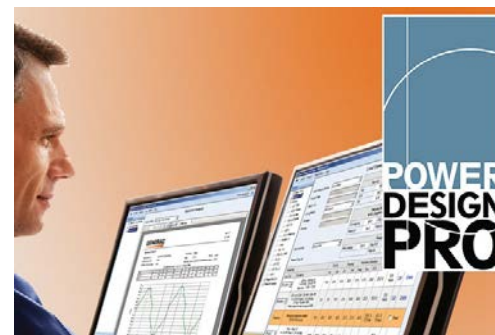
Energy Systems Southeast is your trusted resource for power generation. Our knowledgeable sales and service staff is available around the clock to solve any issue regarding your system. As the largest Industrial Dealer for Generac Power Systems in North America we are able to provide the most advanced power systems on the market. We have the experience, dedication and knowledge to help design your system and then to ensure it will be in top working condition whenever you need it.

- **Energy Systems Southeast offers a complete range of products**

- Standby Generators with single sets up to 2MW and parallel capability to 20+MW
- Mobile Generators up to 500kW+ with parallel capability
- Portable Generators from 1kW – 17kW for home or jobsite
- Transfer switches, UPS, Switchgear and other peripherals

- **Energy Systems Southeast is your trusted partner**

- 20 years in the generator industry
- 10,000+ generators delivered
- 95+ factory certified technicians covering 5 states
- 16,000 generators maintained per year
- 24/7/365 service support
- Complete project support from design to startup
  - Sizing Software, BIM Objects, Spec Writing
- Nationwide support through Generac partner distributors

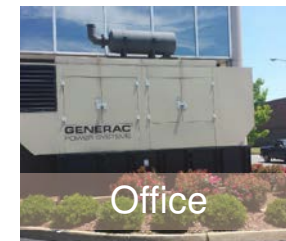
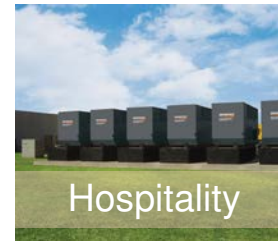
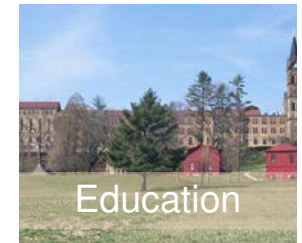


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## Standby Power

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# Standby Power



# Healthcare

# Healthcare

# 2,000 kW

## Multiple Locations

### PROJECT

Energy Systems and Generac Power Systems are a preferred vendor for HCA (Hospital Corporation of America) who is the largest managing Healthcare Provider in the United States. We provide generator design assistance, sizing, and ongoing sales, service and maintenance. We work very closely with the factory and also other dealers in the Generac family to make sure each installation meets the customer's need and is properly maintained throughout its lifecycle.

### KEY FEATURES

#### Dealer Managed Strategic Account

- 50+ Installations
- Various Sizes
- Single Set and Parallel Systems



# Healthcare

# 2,400 kW

## Newnan, GA

### PROJECT

When Cancer Treatment Centers of America needed a Standby Generator System for their Newnan facility they trusted Generac and ESSE. The customer needed a solution to meet their current needs but to also be easily scalable as their power needs expanded. They had the added limitation of minimal onsite diesel fuel storage. We were able to provide a solution with our Bi-Fuel MPS (Modular Power System) products. Four of the Generac MB600 generators were paralleled utilizing a system controller with redundant backup PLS module to eliminate any single point of failure. An additional space was prepared so that another machine can be quickly added as their needs increase.

### KEY FEATURES

#### 2,400kW Parallel, Bi-Fuel System

- 4 x Generac MB600 rated at 600kW each
- Sound Attenuated Enclosure
- PM-SC System Controller
- PM-PLS Backup System Controller
- 2,400kW / 480V
- Base Fuel Tank for each genset
- 72 hours run time in Bi-Fuel mode
- Custom Platform for ease of operation and maintenance
- Expandable for future growth





# Healthcare

# 2,500 kW

## Terre Haute, IN

### PROJECT

Terre Haute Regional Hospital, originally founded in 1882, is a 278 bed facility serving this community in Indiana. They recently upgraded the standby generator system with 2x1250kW Generac generators and a custom switchgear package from ASCO. Energy Systems Southeast was very involved in helping provide a system that met every need of this important customer. What might have been a challenge for others is the fact that the actual location of the project is outside of our territory. This challenge was easily met by working closely with a partner distributor serving Indiana who is fully qualified for startup, commissioning and any ongoing services.

### KEY FEATURES

#### 2,500kW Parallel, Diesel System

- 2 x Generac MD1250 rated at 1250kW each
- Open Set Indoor Installation
- Custom 5000 Amp, 100kAIC ASCO Switchgear Lineup
- 275 Gallon Day Tanks
- 2,500kW / 480V
- Qty 7 Bypass Isolation ATS's



# Healthcare

# 2,400 kW

## Covington, GA

### PROJECT

Since its service to the Newton County community began more than 60 years ago, Piedmont Newton Hospital has expanded its footprint to meet the needs of its growing population with additional growth expected. Between the ongoing growth of the 304,161ft<sup>2</sup>, 97-bed hospital and its role as a foundation in the community, facility staff decided it was time to upgrade and increase its emergency power capability. With the current building load near 1MW, it was decided to go with a 4x600kW system with onboard paralleling and remote monitoring capability. The complete solution provides N+1 redundancy (N+2 on critical loads) and allows them to meet Joint Commission regulations for reporting and testing.

### KEY FEATURES

#### 2,400kW Parallel, Diesel System

- 4 x Generac MD600 rated at 600kW each
- Sound Attenuated Enclosure
- PM-SC System Controller
- PM-PLS Backup System Controller
- 2,400kW / 480V
- N+1 Redundancy (N+2 on critical)
- Remote Communications
- Meets Joint Commission requirements for reporting and testing
- Expandable for future growth



**Outdated System Replaced**



Featured in:

## HEALTH FACILITIES MANAGEMENT

(Click the logo above to see the complete feature article)



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# Healthcare

# 750 kW

## Clarksville, TN

### PROJECT

A 5 x 150kW package may seem like an unusual combination for a 750kW generator system but sometimes customer requirements lead to creative solutions. They wanted to use natural gas at this Veterans Administration Retirement Home but also wanted to have LPG as onsite fuel. To accomplish this we used our 150kW node which provides the best NG/LPG performance in our MPS (Modular Power System) System. The loads were separated in multiple ATS's allowing us to meet NFPA requirements for life safety as well as critical loads. The onboard paralleling does not require any expensive and complex switchgear so this solution came together without hurting the budget, lead times, commissioning schedule or the application.

### KEY FEATURES

#### 750kW Parallel, Dual Fuel System

- 5 x Generac MG150 rated at 150kW each
- Level 1 Sound Enclosure
- PM-SC System Controller
- 750kW / 480V
- On-site LPG Fuel Tank
- Expandable for future growth
- Common power node for simplified maintenance and service



# Healthcare

1,500 kW

Oviedo, FL

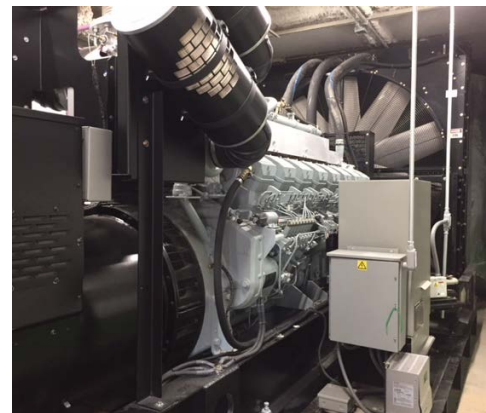
## PROJECT

Located just outside Orlando, the Oviedo Medical Center is a 64 bed full service hospital backed up by a Generac MD1500 genset. To control initial costs and allow for future expansion in this growing community, the generator was set up with provisions for easy expansion. Because our onboard paralleling system does not require expensive switchgear this was very easy on the overall project budget. This indoor installation also has a day tank with fully integrated controls for fuel monitoring and refilling.

## KEY FEATURES

### 1,500kW Parallel Ready System

- Generac MD1500 rated at 1500kW each
- Open Configuration for indoor installation
- Provisional controls for future expansion
- 1,500kW / 480V
- Day tank with integrated control system





# Standby Power



Data Center



# Data Center

2,400kW

Franklin, TN

## PROJECT

Peak 10 has used our MPS solution on multiple Data Center projects. They love having the ability to prepare for growth but controlling their initial equipment spending utilizing our MPS (Modular Power System) solution. Here they have prepared the site for 6 generators but limited the initial purchase to 4 based on the current demand. As their business expands it is fast and affordable to add generators. From day 1 they have a reliable and redundant system suited to their actual needs.

## KEY FEATURES

### 2,400kW Parallel System

- 4 x Generac MD600 rated at 600kW each
- Sound Attenuated Enclosure
- PM-SC System Controller
- PM-PLS Backup System Controller
- 2,400kW / 480V
- Large Base Fuel Tank
- Onboard parallel system
- Motor operated breakers in the gear for load management
- Expandable for future growth



# Data Center

800kW

Norcross, GA

## PROJECT

This was a great expansion project with Comverge Energy Management. ESSE took the lead on this project and provided a full turnkey solution. The project included engineering, a new 2 x 400kW generator system, UPS/Racks/PDU's, cooling and roof top condensers, fire suppression system, installation of everything and ongoing monitoring services. Though we don't always do turnkey projects, we have the capability of handling complex projects when the need arises.

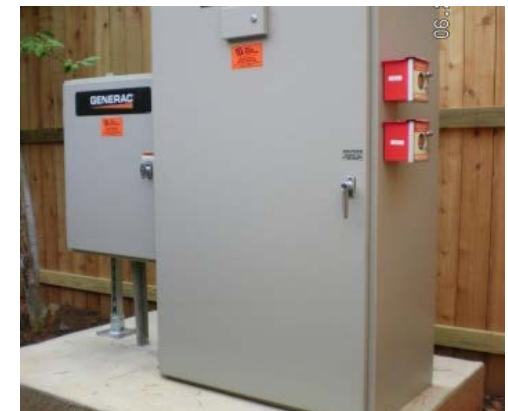
## KEY FEATURES

### 800kW Parallel System

- 2 x Generac MG400 rated at 400kW each
- Level 1 Sound Enclosures
- PM-SC System Controller
- PM-PLS Backup System Controller
- Generac MPS - Onboard parallel system

### Turn-Key Features

- Engineering Drawings
- Equipment
  - Generators
  - UPS's, Racks, PDU's
  - Cooling
  - Fire Suppression
- Monitoring Services
- Installation



# Data Center

# 2,000kW

## Huntsville, AL

### PROJECT

This system is doing its part to protect our country. The application requires the utmost in reliability which was delivered through the Generac MPS system. With redundancy on critical loads, no single point of failure in the controls, serviceable without risk of a power outage and reliable diesel engines this system met the needs of this important customer.

### KEY FEATURES

#### 2,000kW Parallel System

- 4 x Generac MD500 rated at 500kW each
- Sound Attenuated Enclosure
- PM-SC System Controller
- PM-PLS Backup System Controller
- 2,000kW / 480V
- Large Base Fuel Tank
- Onboard parallel system
- 3 modes of paralleling – PMSC, PLS, Manual
- Expandable for future growth





# Standby Power



Education

**Education**

**800kW**

**Kennesaw, GA**

### PROJECT

If you look around any major university campus you will find a variety of power generation applications. In this case, Kennesaw State had a need for standby power on their data center. The solution turned out to be a 2x400kW natural gas, paralleled system with ultra sound attenuated enclosure. With current student enrollment over 35,000, this fast growing university now has the ability to expand their generator system as the need arises.

### KEY FEATURES

#### 800kW Natural Gas System

- 2 x Generac MG400 rated at 400kW each
- Level 3 Sound Enclosure
- Onboard parallel
- PMSC System Controller
- Expandable up to 15 machines of any size or fuel



## Education

80kW

Johnson City, TN

### PROJECT

Located in the Northeast corner of the state, East Tennessee State was founded in 1911 and currently has around 15,000 students. A tour of the ETSU campus would reveal multiple Generac standby generator sets with the machine pictured being an 80kW diesel on the Clinical Education Building.



EAST TENNESSEE STATE  
UNIVERSITY

### KEY FEATURES

#### 80kW Diesel System

- Generac MD80 rated at 80kW
- Level 1 Sound Enclosure
- Internal Critical Grade Silencer
- Large Sub-base Fuel Tank





# Education

# 250kW

## Knoxville, TN

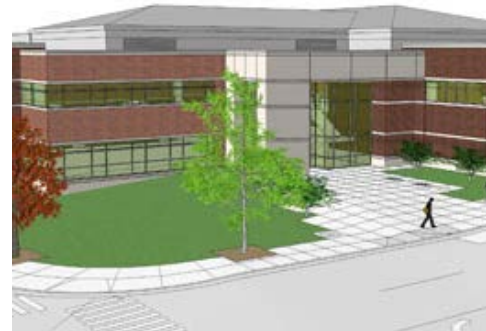
### PROJECT

Founded in 1794, the University of Tennessee is one of the oldest universities in the country. With an active and increasing student body, they recently added this new Student Health Center. Hidden away on the rooftop of this beautiful facility is a Generac SD250. This system is rated at 250kW, has an extended run base tank and is connected through a 300 amp Generac ATS.

### KEY FEATURES

#### 250kW Parallel System

- Generac SD250 rated at 250kW
- Weatherproof Enclosure
- Extended Run Base Fuel Tank
- Generac 300 Amp Transfer Switch



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# Education

# 1,600kW

## Gainesville, FL

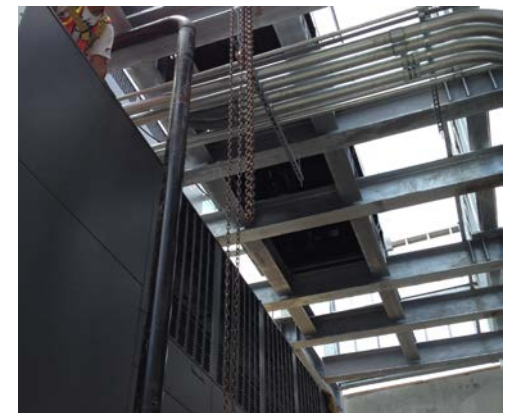
### PROJECT

This was an interesting project done at the University of Florida Biology Research Laboratory. It began as a standard Gemini 1MW generator, easy enough. Then in the construction phase it was discovered the engineers did not account for some chiller loads and the fun began. Some creative thinking led to a mezzanine built above the original generator and 2x300kW Natural Gas Generators were installed in parallel with the original 1,000kW diesel. Problem solved. This project truly illustrates the flexibility of our Generac MPS system allowing us to mix fuel types and generator outputs as well as allowing for creativity in locations.

### KEY FEATURES

#### 1,600kW Natural Gas & Diesel Parallel System

- Generac Gemini 1,000kW Diesel
- 2 x Generac MG300 Natural Gas rated 300kW each
- Level 2 Enclosures
- Modular Parallel System (MPS)
- System Controller
- Mezzanine built to locate the 2 x MG300's



Education

600kW

Knoxville, TN

### PROJECT

Humes Hall is a large student dormitory on the campus of the University of Tennessee in Knoxville. This Generac SD600 rated at 600kW standby is the backup power for life safety and fire pump coverage on this facility housing 500+ students.

### KEY FEATURES

#### 600kW Diesel System

- Generac SD600 Diesel Generator
- Level 2 Sound Enclosure
- UL142, 24Hr Base Fuel Tank





# Standby Power



Grocery & Retail

# Grocery & Retail

150kW

Knoxville, TN

## PROJECT

Target Stores is a direct Generac National Account. Energy Systems Southeast is the Industrial Distributor for the Southeast and responsible for installation support and ongoing service for the products. This example is a 150kW natural gas generator in a Level 1 Sound Attenuated enclosure. This is only one of many locations with Generac products in our territory.

## KEY FEATURES

### 150kW Natural Gas System

- Generac SG150 rated at 150kW
- Level 1 Sound Enclosure
- Backs up the store operations and UPS system



## Grocery & Retail

80kW

Germantown, TN

### PROJECT

Like Target Stores, Kroger is also a direct Generac National Account. Energy Systems Southeast is the Industrial Distributor for the Southeast and responsible for installation support and ongoing service for the products. This example is an 80kW natural gas generator in a Level 1 Sound Attenuated enclosure. This is only one of many locations with Generac products in our territory.

### KEY FEATURES

#### 80kW Natural Gas System

- Generac SG80 rated at 80kW
- Level 1 Sound Enclosure
- Backs up the store operations





# Standby Power



## Hospitality & Restaurant

# Hospitality & Restaurant

2,000kW

Biloxi, MS

## PROJECT

The cost of being without power in some industries far outweighs the cost of a reliable standby generator system. The gaming industry is one of them and the Scarlet Pearl Casino Resort chose ESSE and Generac. The application called for 2MW of power and the solution everyone settled on was a 2xGemini system for its compact size, redundancy, quick startup and reasonable cost. The system was installed above grade to avoid any potential storm surge or flooding should a major hurricane ever hit the area again.

## KEY FEATURES

### 2,000kW Diesel Gemini System

- 2 x Generac SD1000 Gemini rated at 1,000kW each
- Level 1 Sound Enclosure
- Large Base Fuel Tank
- Above grade location



# Hospitality & Restaurant

900kW

Sevierville, TN

## PROJECT

Wilderness Condos and Water Park is a new development in Sevierville, TN, near the very popular tourist area of Gatlinburg/Pigeon Forge. With residents and guests always nearby this project called for a special enclosure solution. We placed 3 different 300kW Natural Gas generator systems on the resort complex with super sound attenuated enclosures and motorized dampers.

## KEY FEATURES

### 900kW Natural Gas System

- 3 x Generac SG300
- Custom Enclosure
  - Super Sound Attenuated
  - Motorized Dampers





# Standby Power



Manufacturing & Warehouse

# Manufacturing & Warehouse

2,400kW

Mt. Juliet, TN

## PROJECT

CEVA, one of the largest supply chain management companies in the world, needed a standby power solution for a large distribution center in Mt. Juliet, TN. We were able to help them size up a parallel solution on both of the two building feeds that covers the complete loads under normal circumstances and offers critical load redundancy. An added bonus was that we were able to reduce the lead time for the generator package utilizing smaller nodes which are much more readily available. Because our MPS system does not require switchgear for parallel operation the commissioning is just as simple as a single set installation.

## KEY FEATURES

### 2,400kW Parallel Diesel System

- 2 Building Feeds 1,200kW Each
- 3 x Generac MD400 rated at 400kW each for both Building Feeds
- Level 1 Sound Enclosure
- 3000A Collection Panelboard w/ built in SE Rated ATS
- MPS System offered
  - Critical load redundancy
  - Reduced lead time
- 2,400kW / 480V



# Manufacturing & Warehouse

1,250kW

Atlanta, GA

## PROJECT

Glovis, part of the Hyundai-Kia Automotive Group and a Tier 1 auto parts supplier, teamed up with ESSE for a complete installation of a 1,250kW generator solution for their distribution center near Atlanta. We managed the entire process including product sourcing, delivery, site prep, concrete, wiring, assembly and commissioning.

## KEY FEATURES

### 1,250kW Diesel System

- Full installation services
- Generac SD1250 rated at 1,250kW
- Level 1 Sound Enclosure
- Service Entrance Rated ATS



HYUNDAI  
GLOVIS





# Manufacturing & Warehouse

Atlanta, GA

3,200kW

## PROJECT

A very large Industrial Distributor needed a standby solution for their Atlanta area warehouse. In this very competitive world of same day or next day parts delivery the cost of being without power was unacceptable. The Bi-Fuel, parallel solution gave them very long run times and redundancy without having to store and maintain large quantities of diesel fuel. The custom base tanks are designed so that as demand grows another generator can be dropped in place with commissioning being simple utilizing the Generac onboard paralleling system. The design also allowed for the use of smaller, less costly load banks to test the individual units instead of the full system.

## KEY FEATURES

### 3,200kW Bi-Fuel Parallel System

- 2 x MB500, 2 x MB500, 2 x MB600
- Weather/Sound Enclosure
- PM-SC System Controller
- PM-PLS Backup System Controller
- Build out as demand grows
- Custom Base Fuel Tank
- Onboard parallel system
- Custom Load Bank on each system
- Redundant parallel controls



# Manufacturing & Warehouse

Union City, GA

2,400kW

## PROJECT

Dendreon was a biotechnology company doing cancer treatment research at this facility in Union City. ESSE was able to provide them with a parallel package using the Generac Bi-Fuel system which is the only factory EPA and UL2200 certified Bi-Fuel product in the generator industry. This solution gave them the redundancy they needed and helped minimize the onsite fuel storage which helped save cost on the UL2085 tank.

## KEY FEATURES

### 2,400kW Bi-Fuel Parallel System

- 4 x MB600 rated 600kW each
- Indoor installation
- PM-SC System Controller
- Sub-base day tanks
- Four bypass-isolation ATS's
- UL2085 Fuel Storage Tank



# Manufacturing & Warehouse

1,000kW

Byhalia, MS

## PROJECT

Volvo opened a new 1 million square foot central distribution center in NW Mississippi, just south of Memphis, to service its North American distribution network. Of course when it came time to install backup power they wanted it to be powered by a Volvo engine. We were able to provide 2 x 500kW, Volvo powered generators with large fuel tanks feeding 2 buildings meeting both their needs and wishes.

## KEY FEATURES

### 1,000kW Diesel System

- 2 x SD500 rated 500kW each
- Special Option – Powered by Volvo
- 2000 Amp & 1200 Amp SE Rated ATS's
- 960 Gallon Sub-base tanks





# Manufacturing & Warehouse

750kW

Mt. Juliet, TN

## PROJECT

ESC is now one of the largest test labs in the country and ESSE has been with them for many years now. As they have grown, adding buildings and services, we have been there to provide new generators and continue to take care of the ones already on site. Pictured here are 2 different 300kW generators backing up critical test labs as well as a 150kW backing up their offices. We are currently working on additional projects on this campus to supply backup power.



## KEY FEATURES

### 750kW Natural Gas Systems

- Generac SG150 – backup for offices
- Generac SG300 – backup for critical testing lab
- Generac SG300 – backup for critical testing lab
- Additional projects in progress for other buildings



# Standby Power



## Municipal & Government

# Municipal & Government

100kW

Memphis, TN

## PROJECT

This particular example is Memphis Fire Station #2, downtown off Main Street. It has a 100kW diesel generator on a large base tank. We have done numerous other similar applications with fire departments, schools, police stations, 9-1-1 centers or similar buildings where a backup generator is needed. We also provide service to many of these applications and are proud to be a trusted partner for these communities.

## KEY FEATURES

### 100kW Diesel System

- Generac SD100 rated at 100kW
- Weatherproof Enclosure
- Large Base Fuel Tank





# Municipal & Government

200kW

Savannah, GA

## PROJECT

In real estate the most important factor is location. At the Frank Scarlet Federal Building in downtown Savannah, location was the biggest challenge. The customer wanted the system located on the roof of the overhang on the rear of the building which was not initially designed to accommodate a generator. Working with engineers we were able to design a custom base frame and isolator system to tie into the structure properly and eliminate any potentially harmful vibration while allowing for proper airflow. The system also included a load bank which required similar design consideration.

## KEY FEATURES

### 200kW Natural Gas System

- Generac SG200 rated at 200kW each
- Level 2 Sound Enclosure
- ASCO Bypass Isolation ATS
- Custom base frame
- 200kW / 480V
- Load bank for compliance testing



Clockwise from top-left: 1) Generator Location. 2) Closeup of generator and load bank. 3) Special isolators and baseplate to direct airflow. 4) ASCO Bypass Isolation ATS.



# Municipal & Government

Athens, GA

1,000kW

## PROJECT

The Athens Clark County Jail project turned out to be a great opportunity to utilize our unique Gemini, 1,000kW generator from Generac. The customer needed 1MW of standby power but had limited space. They really like the idea of having redundancy on certain loads so we suggested the Gemini because it is a 2 x 500kW system inside a single enclosure smaller than a typical 1MW genset. The system behaves as a single unit but has the added benefit of being able to run just one of the 500kW sets should the other need maintenance or service. Add to it a large fuel tank and custom access platforms and this turned into a very successful package.

## KEY FEATURES

### 1,000kW Diesel Gemini System

- Generac SD1000 Gemini rated at 1,000kW
- Level 1 Sound Enclosure
- Large Base Fuel Tank
- Custom access platforms



# Municipal & Government

300kW

Chattanooga, TN

## PROJECT

The Tennessee Department of Transportation is broken up into 4 regions to cover the 95 different counties in the state. The Region 2 headquarters is in Chattanooga and we were chosen to supply their backup power system. This new facility has a 300kW diesel generator with 438 gallon base tank and seismic rated spring isolators mated to a Generac 400 Amp ATS.

## KEY FEATURES

### 300kW Diesel System

- Generac SD300 rated at 300kW each
- Weatherproof Enclosure
- 438 Gallon UL142 Base Tank
- Seismic rated spring isolators
- 400 Amp Generac ATS





# Municipal & Government

Huntsville, AL

1,500kW

## PROJECT

The Madison County Sheriff's Complex contains multiple buildings from administrative to a large jail. ESSE worked closely with all parties to develop a solution that maximized the safety and security on this site while still delivering a value conscious solution. This was accomplished using the Generac MPS system with 3 x 600kW diesel generators paralleled together. This package provides for all of their needs and offers a level of redundancy for the more critical systems. Each generator has its own large base fuel tank and custom platforms connect everything together for safe and easy access.

## KEY FEATURES

### 1,500kW Diesel System

- 3 X Generac SD500 rated at 500kW/ea
- Level 1 Sound Enclosure
- Large Base Fuel Tank
- Custom access platforms
- Generac 2000 Amp, NEMA 3R ATS
- PM-SC – Power Manager System Controller



# Standby Power



Office & Banking

# Office & Banking

1,000kW

Nashville, TN

## PROJECT

ESSE has done many projects through the HCA buying group, 50+ and counting. But we are very proud that they also chose to work with us when they needed backup power at their corporate offices. They installed 2 of our 500kW diesels with Level 2 sound enclosures, large base tank and access platforms at their headquarters in Nashville, TN.

## KEY FEATURES

### 1,000kW Diesel System

- 2 x Generac SD500 rated at 500kW
- Level 2 Sound Enclosure
- Large Base Fuel Tank
- Custom access platforms





## Office & Banking

Prattville, AL

450kW

### PROJECT

Central Alabama Electric Cooperative is a not for profit, member-owned electric distribution utility serving more than 42,000 meters in a 10-county area of central Alabama just north of Montgomery. The cooperative is a \$199 million company with 5,500 miles of line serviced by 120 employees. As an electric coop, they understand what a problem it can be when the power goes out and we are proud that they chose ESSE to provide the backup power to their Headquarters and Operations Command Center. This solution is a 3 x 150kW Natural Gas/LPG system offering redundancy of gensets and fuel.

### KEY FEATURES

#### 450kW Diesel System

- 3 x Generac SG150 rated at 150kW each
- Level 1 Sound Enclosure
- Natural Gas with LPG backup
- PM-SC System Controller



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## Office & Banking

Biloxi, MS

600kW

### PROJECT

The Kroc Center is 52,000 square feet and features a chapel/performing arts center with state of the art audio/visual capabilities; full-sized gymnasium for indoor recreation sports; weight and exercise rooms; dance and aerobic studio; men's, women's and family locker rooms; multi-purpose room/dining hall for Salvation Army and community events; and monitored childcare; classrooms; meeting rooms; and a multi-purpose lobby for art and music exhibits. This center was largely funded through the estate of Joan Kroc, widow of McDonalds founder Ray Kroc. Providing the backup power to this amazing facility is a 2 x 300kW Generac MPS System with Generac system controller and ATS's.

### KEY FEATURES

#### 600kW Diesel System

- 2 x Generac SD300 rated at 300kW/ea
- Level 1 Sound Enclosure
- Large Base Fuel Tanks
- Generac Transfer Switches
- PM-SC System Controller



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# Standby Power



## Telecom & Entertainment



**Telecom**

**3,000kW**

**Birmingham, AL**

### PROJECT

Energy Systems Southeast and Verizon have a long power generation relationship. We have installed and continue to service many of their generators on cell tower sites. This project is for a major switching station located in Birmingham. This indoor installation has quantity 5 of our 500kW rated diesel generator sets with day tanks connected to a large supply tank. This system design allows for easy growth as their needs increase for years to come.

### KEY FEATURES

#### 3,000kW Diesel System

- 5 x Generac MD600 rated at 600kW each
- Individual Day Tanks
- Onboard Parallel System
- PMSC System Controller with PLS Backup



Telecom

1,000kW

Memphis, TN

## PROJECT

Generac has developed some of the most innovative solutions in the generator industry through its almost 60 years. One of the most creative has to be the Gemini product which is 2 x 500kW generators inside a single enclosure. This product offers lower cost, potential for redundancy and approximately the same footprint as a traditional 1MW product. This proved to be the ideal solution for the T-Mobile Switching Center in Memphis with the addition of a few fuel tank options to meet local code requirements.

## KEY FEATURES

### 1,000kW Gemini System

- 1,000kW Gemini (2 x Generac 500kW gensets in a single enclosure)
- Base Fuel Tank with overfill protection and local venting requirements
- Onboard Parallel System



Telecom

60kW

Memphis, TN

## PROJECT

This site is one of the numerous cell tower locations that ESSE has with the major carriers throughout our territory. With our world becoming more and more “connected” and people dropping land-line service, these cell towers are critical to communication. This is a very active and important sector of our business for service and new product installs.

## KEY FEATURES (Sample Project Shown)

### 60kW Diesel System

- Generac SD60
- Base Fuel Tank for long runtime
- Remote monitoring capability
- Raised platform due to flood plane



T-Mobile verizon





# Entertainment

1,800kW

Atlanta, GA

## PROJECT

The world of entertainment continues to evolve. Gone are the days of everyone defaulting to the local cable provider and the successful ones are evolving with the market, even leading the way. Comcast recognized that their customers expect to have their content available whenever and wherever so they installed a standby generator solution at the broadcasting facility in Atlanta. They have also prepared the area for easy expansion knowing that the Generac MPS systems can expand as quickly as their demand grows.

## KEY FEATURES

### 1,800kW BiFuel System

- 3 x 600kW Generac MB600 generators
- MPS Onboard Paralleling
- Base Fuel Tank for long runtime
- Level 2 Sound Attenuated Enclosure
- Raised platforms for easy access
- Site prepared for future expansion



# Standby Power



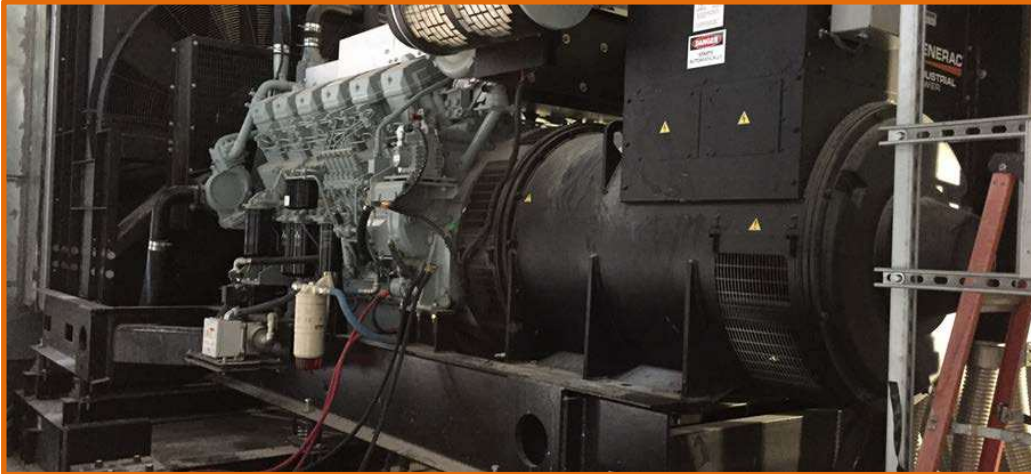
References to multiple additional projects among all channels

# Additional References

# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

Capital View Tower – 1250kW Diesel – Nashville, TN



134 Air Force Guard Base – 4x600kW Bi-Fuel – Alcoa, TN



NAS – 750kW Diesel w/custom enclosure – Jacksonville, FL



Comcast Cable – 2x400kW Diesel – Huntsville, AL



# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

T-Mobile Switching Center – 3 x 1,000kW Gemini – Nashville, TN



West Florida Hospital – 2 x 1,000kW Gemini – Pensacola, FL



Cardinal Health – 5 x 400kW – Suwanee, GA



HCA Human Resources Center – 500kW Diesel – Nashville, TN

# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

**Arris Bank/Data Center – 4x200kW expanded with 4x300kW – Norcross, GA**



**Forsyth County 911 & Sheriff – 4 x 400kW Diesel – Cumming, GA**



**CR Bard – 3 x 600kW, Soft Loading SE ATS – Madison, GA**



**T-Mobile at Concourse IV – 2 x 750kW Gemini – Atlanta, GA**



# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

UT Oak Ridge National Security Laboratory – 350kW Diesel – Knoxville, TN



HCA Emergency Department – SD350 with 64hr FDEP Tank – Plantation, FL



Cardinal Health DC – 2 x 500kW with 1600A ATS – Memphis, TN



Healthsouth Acute Rehab – 400kW w/ 1900G Tank & Seismic – Chattanooga, TN



# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

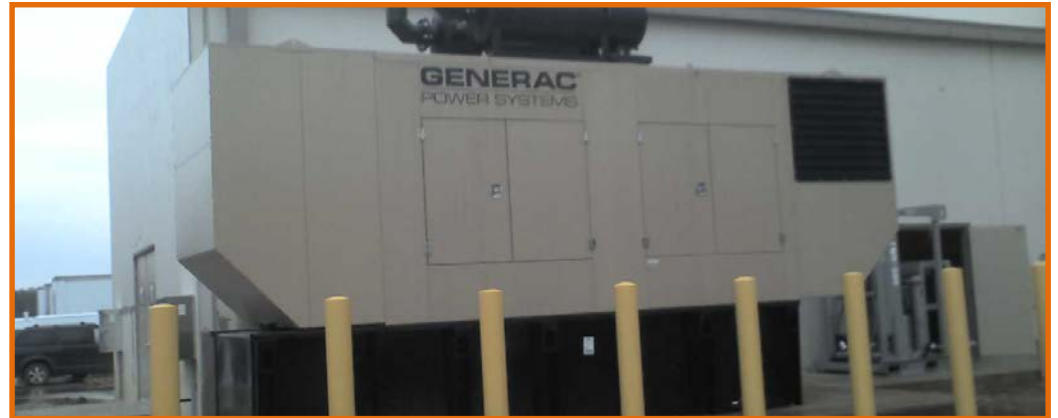
**South Central Growers – 300kW NG – Springfield, TN**



**Appalachian Electric Co-op – SD230 with Base Tank – New Market, TN**



**Shelby County Sheriff – 300kW with 1200A SE ATS – Arlington, TN**



**Nike Footwear Distribution Center – 600kW Diesel – Memphis, TN**

# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

University of Southern Mississippi – 2 x 300kW Bi-Fuel – Hattiesburg, MS



3x500kW Water Treat., 150kW Lift Station, 150kW Main Bldg – Panama City, FL



Bay County WTP – 3x500kW Diesel, Step-up 4160V Transformer – PCB, FL



T-Mobile Switching Station – 2x600kW Bi-fuel with space to grow – Mobile, AL



# CONNECTING INDUSTRIES WITH SOLUTIONS

## Additional References

Americas First Bank – 600kW Diesel – Birmingham, AL



Little Choctawhatchee WWTP – 4xMD600 & 1xSD600 – Dothan, AL



UGA Foley Field –Diesel Genset w/integrated Load Bank – Athens, GA

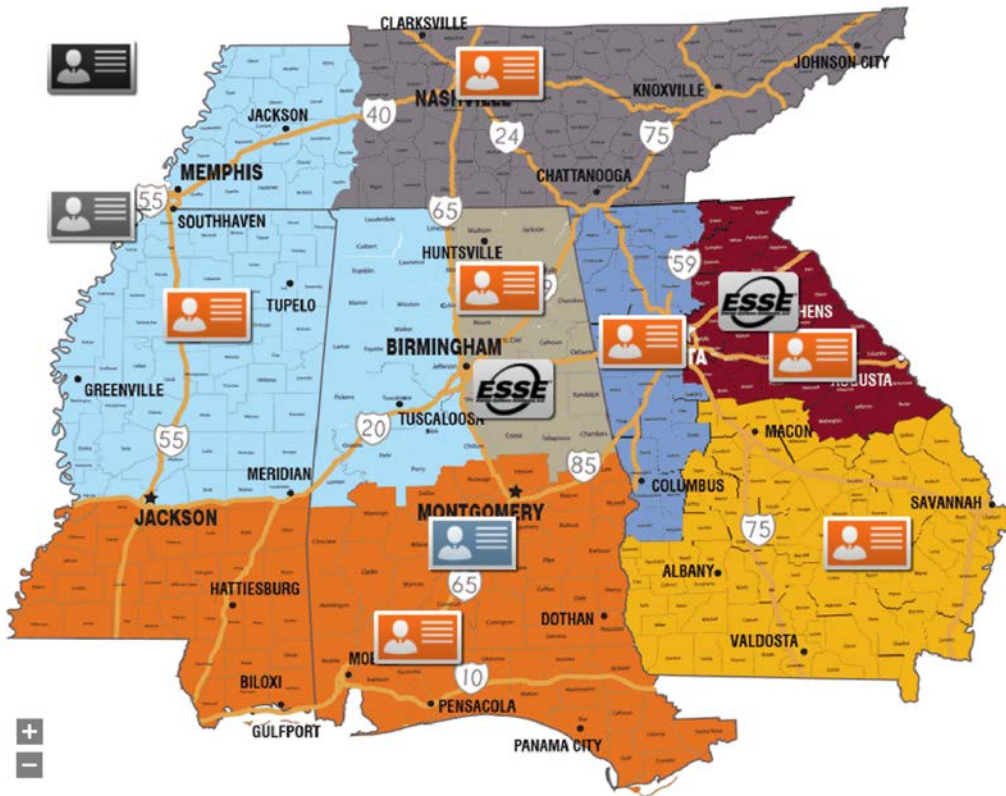


Verizon Wireless – Custom Enclosure – Savannah, GA



## Territory Map

## Contacts



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Reach out and get the support and resources you need. For further information: call 855 GEN ESSE (855-436-3773) or [www.essellc.com](http://www.essellc.com)