



EnergytreeCNG.com

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Energytree answers the demand for the need of a local company to provide timely service, quality work, and reasonable, controlled costs. Machine Tool

- Well established machine tool professionals with multifaceted knowledge in the machine tool and manufacturing industry.
- Quality service to be the norm, not the exception.
- Customers are treated with the highest respect, as well as Energytree’s vendors.
- Some of Energytree’s service that are available:

Custom builds	Tool Design	Rebuild
Retrofit	Remanufacture	

CNG

- CNG vehicle conversion - cars, trucks, gas and diesel.
- CNG compressors and equipment - new and used
- Repairs and retrofitting of Fuelmaker, Bauer, and other compressors and equipment

Electrical

Master electricians proven in the field.

Advancing our skills when ever increasing demands of the technological arena.

Merging vast experience with new ideas in:

Diagnostics	Design	PLC/CNC
Panel	Replacement	Re-work

Rates are based on the individual disciplines:

- \$65.0 - \$135 per hour, per job description for Principle Engineering.
- \$33.0 per hour (apprentice) plus \$25.00 per hour travel rate.
- Four hour minimum will be charged per service call.
- Service Truck, \$42 per hour portal to portal plus \$.55 per mile.
- Airline, \$35.0 per hour portal to portal plus expenses.
- Overnight stays will be charged per average local rate.

Technical Job References

Cardinal Machinery	Minor Tooling	Bennetts, INC
7535 Appling Center Drive	3775 Hwy 76	2255 Industrial Drive
Memphis TN 38133	Somerville TN 38068	Dyersburg TN 38024
Steve Wherry - Jay Minor - 901-465-4184	731-285901-377-3107	8351

ACRA Machine, INC
2050 North Dufree
South EL Monte CA 91733 ST.
Tom Don/Bob Craven -
Williams -

Republic Lagun Machine P.O. Ucar Carbon Co., INC
Box 5328 Plant 1000 E. Arson P.O. Box 513 Santa Fe Pike,
Hwy 7 Columbia TN 38401
Carson CA 90749 931-388-1410 800255-4631 Chuck
310-518-1100

Shop equipment listing

2 Bridgeport milling machines
9x42 manual with 3axis dro
inverted 3hp motor and VFD
X-table power feed
Full tooling

Boyar Shultz model 818 surface grinder

- 8 x 18 manual
- fine magnet
- VFD on spindle
- full tooling

Acura lathe

- 13 x 42 manual
- full tooling

Torches and Welders

- gas torch, Lincoln
- 220v mig welder,
- tig welder,
- Hobart 220v stick welder
- and plasma cutter

Grizzly gunsmith lathe
14 x 42 manual with 2 axis dro
5c collet setup
full tooling

Clausing Atlas lathe
12 x 36 manual
dc VFD
full tooling

30 ton hydraulic
press with broach full
tooling
Full set machinist tools
Full set automotive tools
Full set metal fabrication tools
Full set woodworking tools

Full electrical test station, for testing
ac/dc, CNC controls, high power
applications, and circuitry.

Assembly and research rooms



Energy TreeCNG & Machine Tool

Your MidSouth leader in CNG and industrial machine tool solutions.

7gge per hour
14 cfm SCFM @4500psi
4 Stage Reciprocating Compressor
Pressurized oiling system
Continuous Duty Cycle
Manufactured in the USA



Belt driven positive
flow oil pump

Belt driven vacuum
pump

4 stage cooling coils

Direct drive cooling fan

6 pressure gauges

Oil pressure safety
switch



Inlet gas shutoff
solenoids

Adjustable final
pressure switch

Final stage safety
pressure burst disc

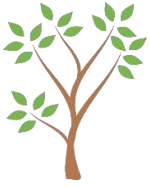
Replaceable oil
filter

Aviation industry
flexible lines for oil
circuit

Explosion proof
10hp motor 3
phase

The EnergytreeCNG compressor uses a Military application compressor module which has a 25 year track record.

- The compressor is configurable for slow or fast fill applications. The compressors also can be setup as a twin pack for speed and redundancy.
- Included is a 15 foot hose, disconnect and nozzle.
- Electronics are upgradable to a fully monitor able package.
- Proven head design for years of reliable service, over sized bearings and seals.



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EnergyTreeCNGCNG Forklift installation and Conversions

- Safer – Reduce hazards in plant and the fueling process
- Cleaner – Reduced emissions in your environment
- Cheaper – Reduce annual fuel and maintenance costs
- Local – Reduce dependence on foreign resources

Benefits of CNG

- Reduce fueling injuries, no tanks to replace, and no fear of frost related injuries.
- Convenient refueling process, pull up forklift to fill post and fill up, not time changing tanks
- Cheaper, cleaner fuel, saves on the budget and environment, up to 95% reduction in emissions to improve your air quality

Emissions Reduction Compared to LPG

- 95% reduction - Carbon Monoxide
- 70% reduction - Reactive Hydrocarbons
- 53% reduction - Nitrous Oxides
- 11% reduction – Carbon Dioxide

Results from Environmental Research Development corp, Galthersberg MD

LPG Safety and Injury risks

- Back injuries are the leading cause of workers compensation claims
- CNG tanks are permanently mounted which mitigates lifting injuries
- LPG can cause frostbite when changing from a liquid to a gas. when contacts skin
- CNG is in a gaseous state in all stages of the filling process which removes the risk of frostbite injuries

CNG Benefits vs. LPG

- Higher octane to reduce engine knock
- Longer engine and oil life due to reduced hydrocarbons and particulates
- Better cold starting with CNG

CNG vs. Electric

- Less floor space requirements with CNG
- No space needed for battery charging and exchange area
- No space for Specific area is required for battery wash
- No spaced needed for employee wash in the event of hazardous liquid spill

Hazards of Electric

- Safety equipment must be worn during maintenance and changing •
- Recharging emits harmful gases

Benefits of CNG

- Natural gas is the cleanest fossil fuel • Natural gas is the safest fossil fuel
- Natural gas is the easiest to use.
- Natural gas is the most economical fossil fuel
- Natural gas is the most convenient fossil fuel

Basic CNG Site Setup

- Power installed to the compressor location
- Natural gas line installed to compressor location
- Compressor / storage tank / dispenser located in one convenient location
- Other dispensers can be installed for convenient refueling around site.
- Other compressors and storage tanks can be installed in the future to expand your capability

Price LPG Vs. CNG per fill

- 33LB cylinder as the official capacity of 7.9 gallons
- Average price of LPG \$3.00 per gallon
- $\$3.00 \times 7.9 = \23.7 per fill of LPG
- 8 gge cylinder, Average price for Natural gas \$.60 per gallon
- $\$.60 \times 8 = \4.80 per fill of CNG (price depends on local charges for electricity and gas)
- Average run time on forklift is from 2 to 8 hours on a 33lb tank. This depends on the size and operating conditions of your forklift.