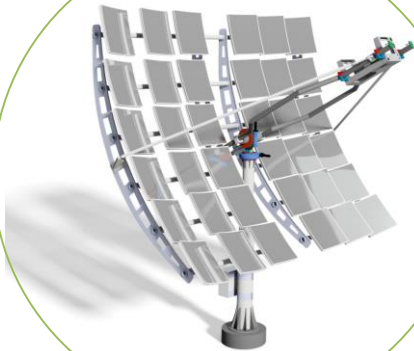




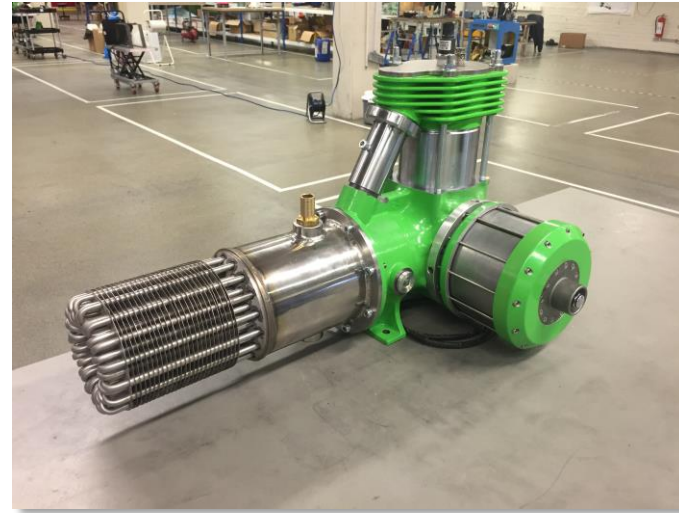
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## Company introduction and current V2-6 Products





- INRESOL AB Manufacturing facility in Gävle Sweden
- Current established sourcing of components is +5'000 units/month.
- Current manufacturing facility in Gävle capacity is >5000 units/month (all assembly automation not in place yet).



### V2-6 External combustion engine:

- Load adapting system
- AC output for all countries 50/60Hz  
110V to 440V, 1-phase or 3-phase
- 12V dc output
- USB charger output
- 'On Demand' power.
- Portable or stationary
- Silent
- MULTI FUEL. (*solid, gas, liquid, solar*)
- 20,000 hours service intervals



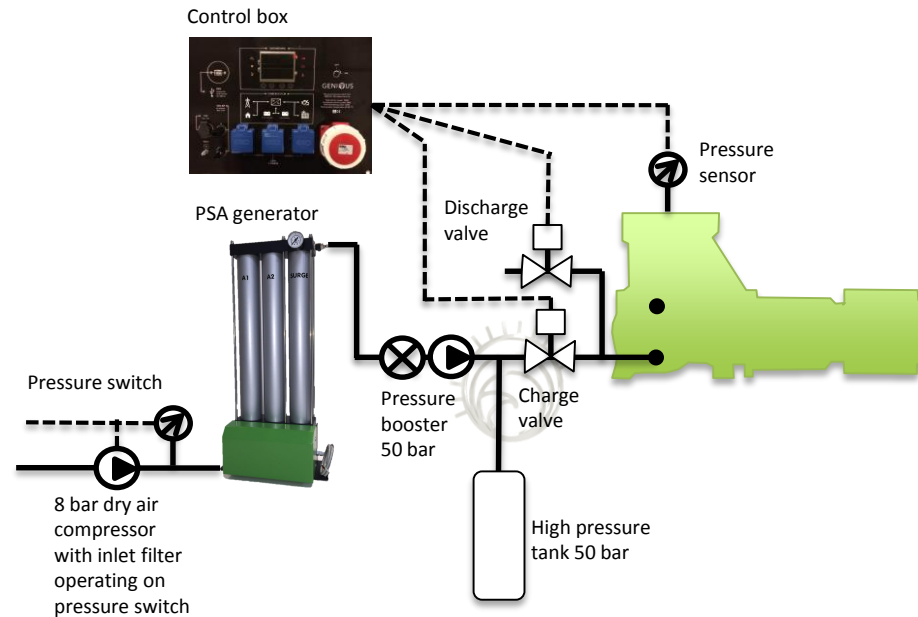
## Working gas generator:

The V2-6 engine operates on N<sub>2</sub> as working gas where a specially developed PSA generator produce all necessary supply at no cost.

The V2-6 engine charge working gas automatically when needed.

This solution enable long operational periods of engine and low O&M costs.

The user experience no down time of the stirling engine even if small leakages occur.

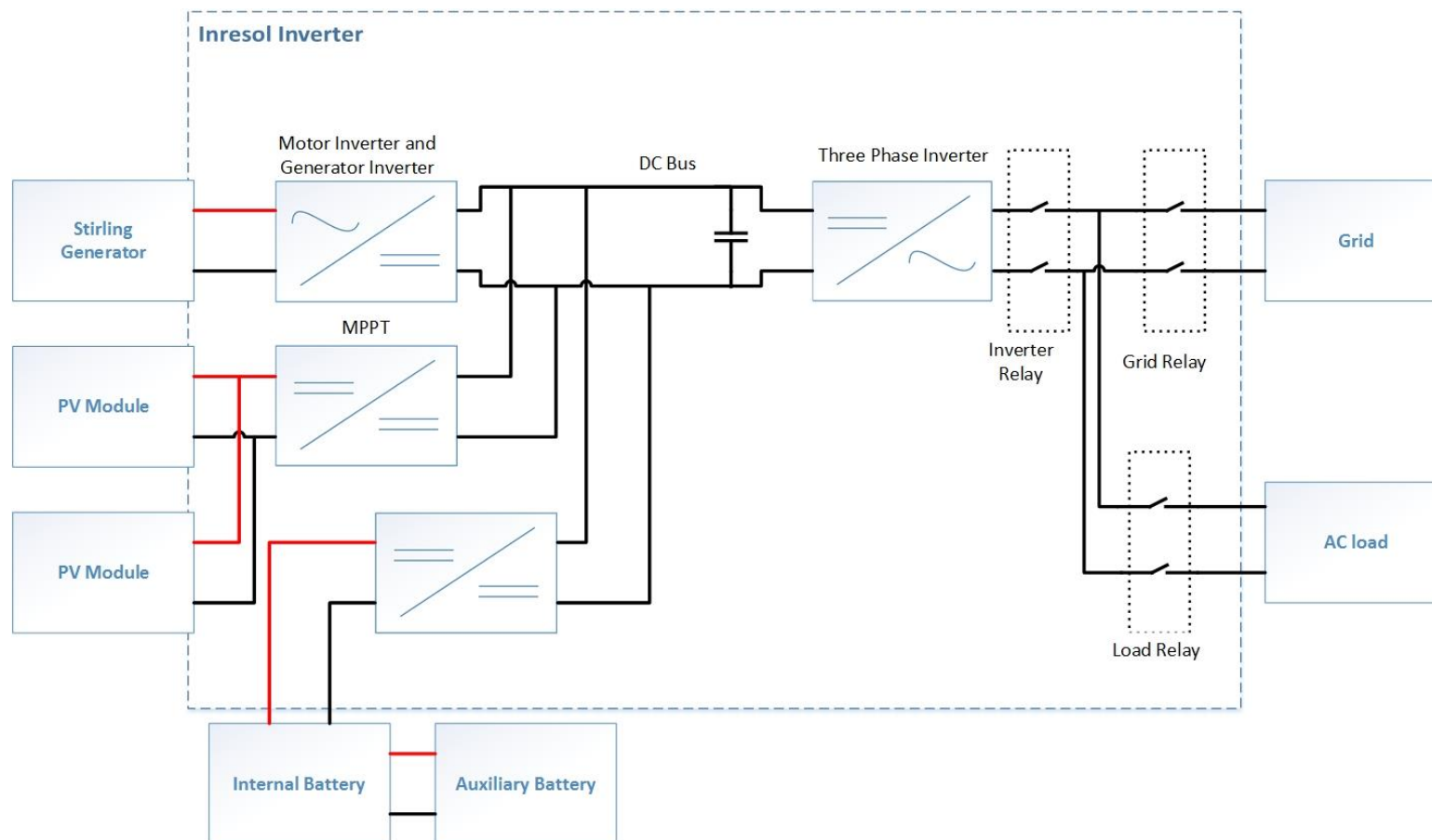






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# V2-6 engine power inverter system



The Inresol Inverter system has “Multi-mode” functionality with high flexibility



### **Article no. 167022**

This product can be inserted into an existing heat source ranging from 600 - 1100 deg. C. It includes all necessary components to activate and control the generator and its output. Its creatively designed heater section allows over 1 square meter of surface area to be used to absorb the maximum amount of heat transfer for highest output efficiency.

*( all technical details and item packing lists are available in the product data sheet)*

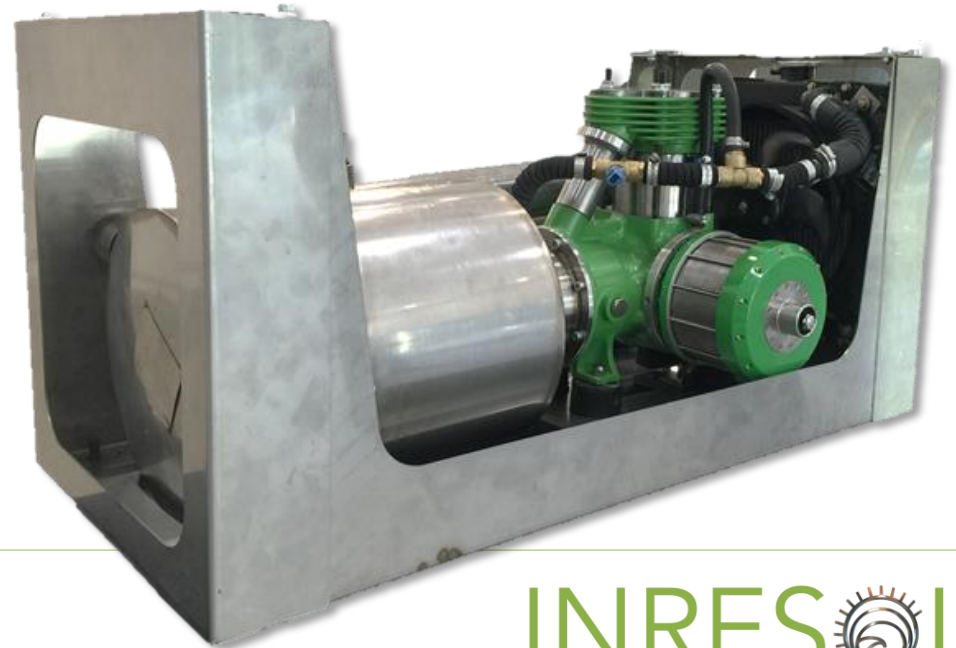


## Article no. 167027

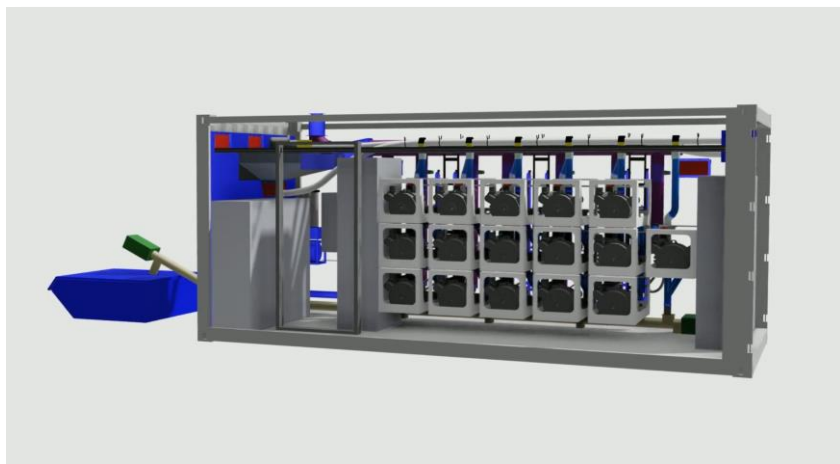
This product can be built in series so that a modular heat and power station can be built in 10', 20' and 40' containers for power output of 30-320kW electric power. A great benefit to this solutions is that you can continue running the system even when some engines are down for maintenance.



*( all technical details and item  
packing lists are available in the  
product data sheet)*



# V2-6CX in container system



The Inresol container system can be built with up to 42 engines in 40' containers:

- Engine sub-frame system
- Inverter with battery backup
- Exhaust system
- Fuel feed system
- Ash removal system
- Safety control system
- Remote control

The design is compliant to the CE and UL certification standard



# V2 – 6SX

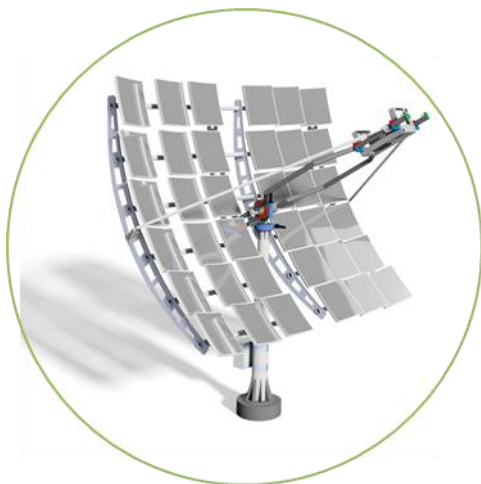


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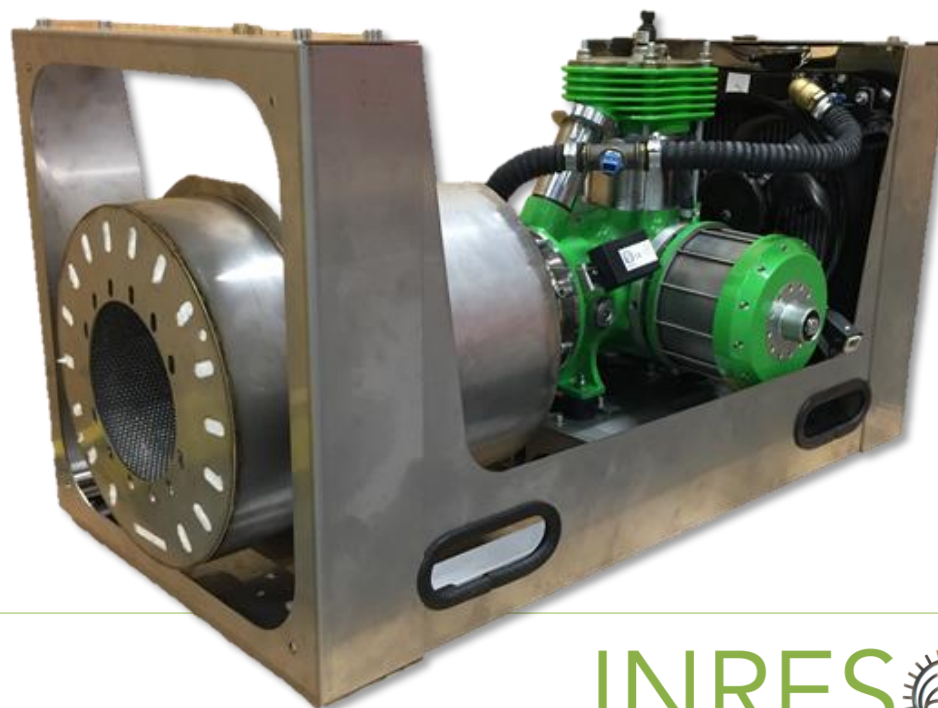
## Article no. 167028

This product can be inserted into a CSP Solar Tracker to absorb the concentrated solar thermal heat and produce electrical power, and if needed thermal outputs (solar CHP).

The Solar tracker shown on the left is an Inresol design that is assembled and erected on site of the CSP plant.



*( all technical details and item  
packing lists are available in the  
product data sheet)*



# V2-6 in solar thermal applications



The Inresol V2-6 engine can be used in CSP (concentrated solar power) applications:

- Heliostatic tracker tower
- Can be built into MW's
- Air cooling
- Built in tracker controller
- Built in grid inverter
- Internet control enabled
- High performance even in desert climate

Inresol have designed a solar application example to show the capabilities of the V2-6 engine.

The license design is compliant to the EN12975 SolarKeymark certification standard.



## Article no. 167010

The Genious unit is the consumer product for future independent power production. Its small size and lightweight portability makes it the first real high power 'off grid' multi fuel CHP generator. Its versatility in being able to switch between on and off grid, and its capacity to burn many different types of combustable fuels allow it to be dependable in all manner of environments.



*( all technical details and item packing lists are available in the product data sheet)*

Electronics  
box

Fuel hopper  
with feeder  
screw

Stirling  
engine

Backup cooler  
radiator

Combustion  
chamber

Power  
generator







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- Smart KWh meter
- Power control
- O&M service
- Payment options

Data exchange by internet





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Lights (12V, 110 – 240 V)



Appliances (110 – 240 V)



EV charger (110 – 240 V)



*stirling generator power station*

Wood pellets



Battery 4 \* 12 V

Hot water



Heating fan



Heating radiator



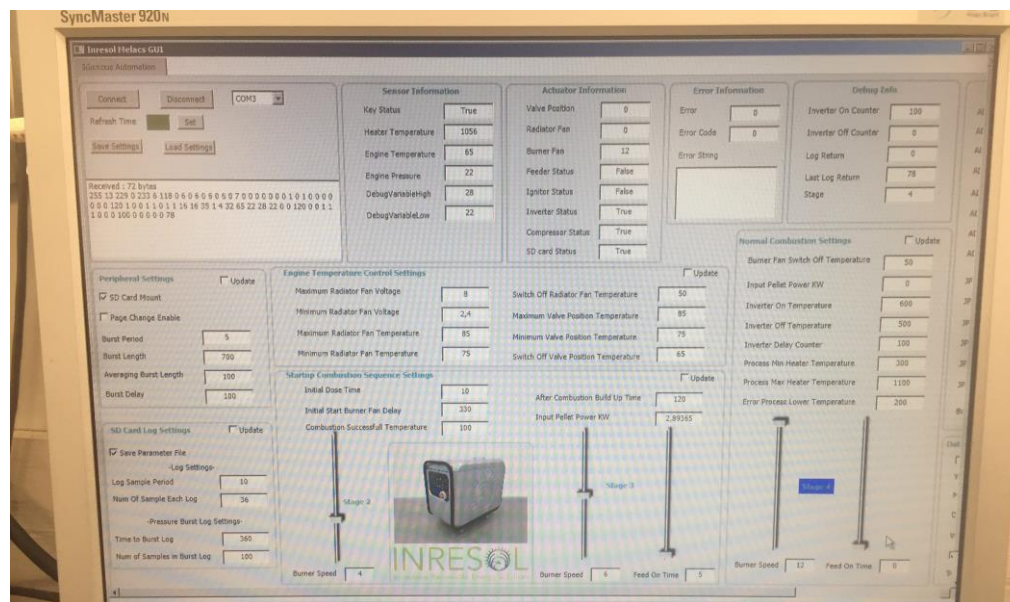
# Requirements of engine integration



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The Inresol engine tuning software is shipped with all engines:

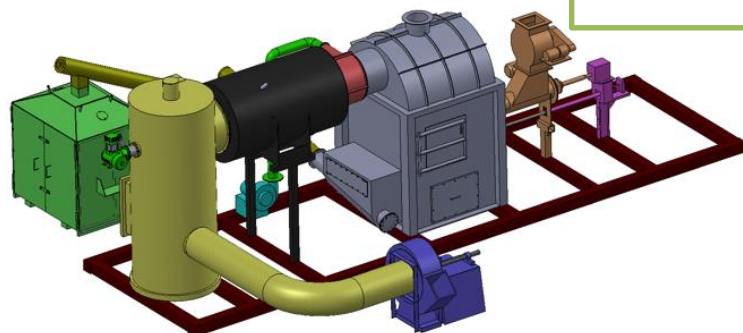
- Power level must match engine absorbed heat
- Working gas pressure matched to the load
- Temperature 600-1000C on the heating hot gas
- Uniform temperature on the heater
- Avoid overheating above 1100C range
- Engine cooling/Hot water must match the power level



# V2-6 OEM applications

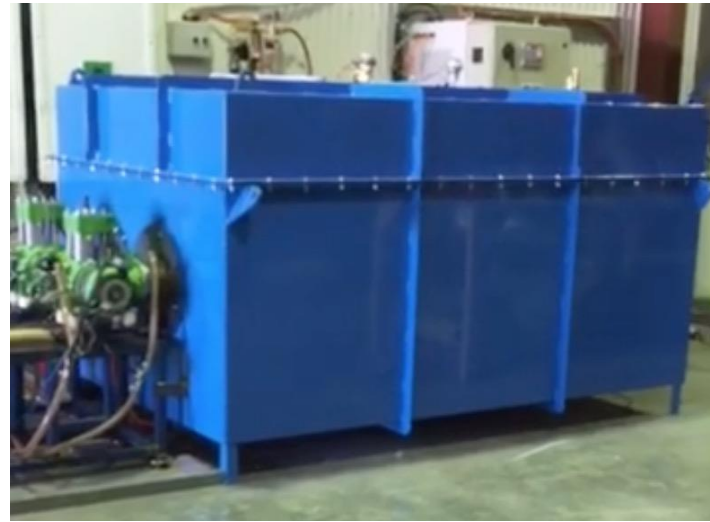


- Boilers
- Gasifiers
- Waste heat
- Solar





# V2-6 in thermal energy storage



The application in the picture is a energy storage system. The V2-6 engine can be used with heat sources between 600-1100C.



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## Fuels

### 1. Solid fuels.

Many biomass materials can be pelletised to create a slow burning fuel with highly efficient power output.





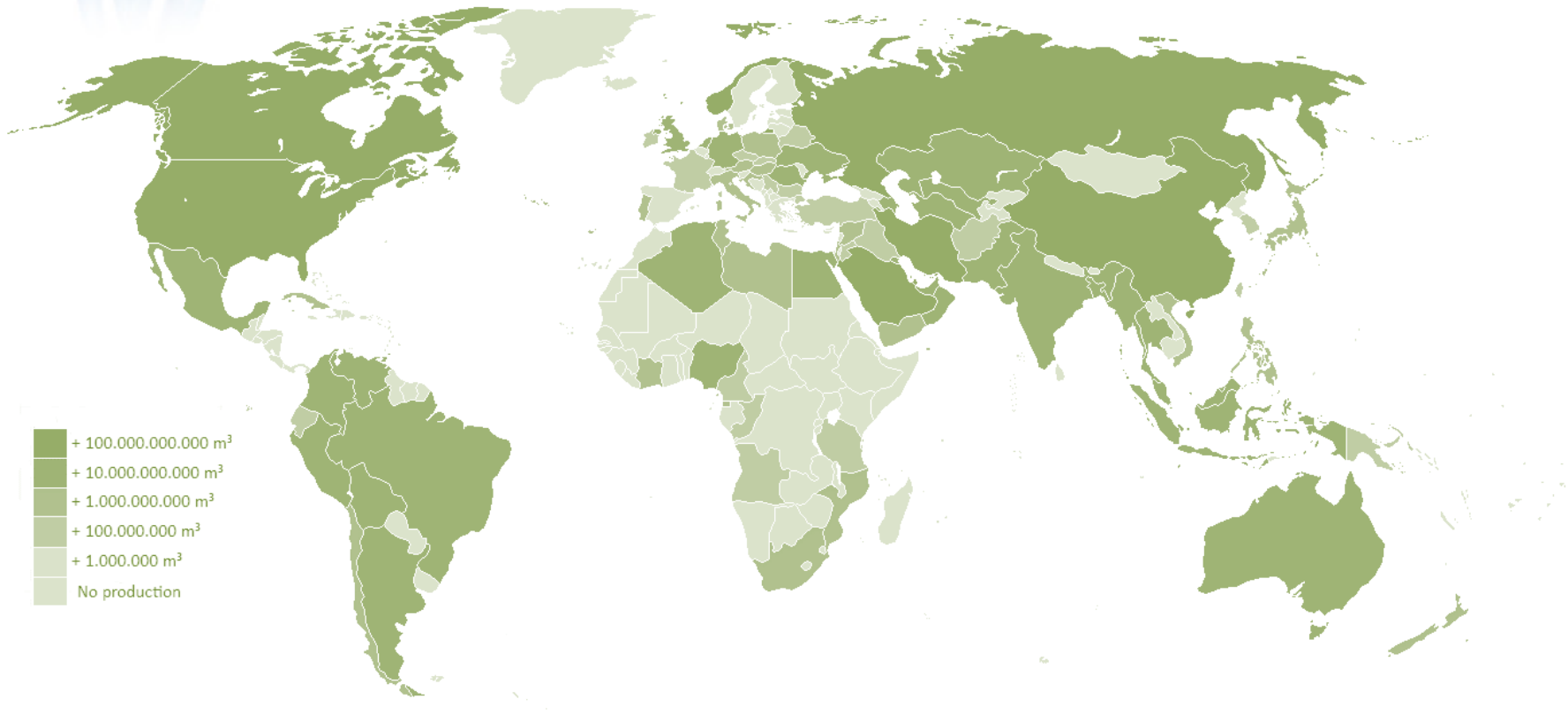
## Fuels



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### 2. Gaseous fuels.

The map shows the world natural gas production, however there are other alternative biogasses also available from animal waste, pyrolysis systems, syngas etc.







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## Fuels

### 1. Liquid fuels.

It's not just Diesel that is combustible for this type of combustion chamber, other fuels are available and have high energy content such as Bio ethanol and certain Bio oils can also be used.





## Supporting the market:

Installation, operation and service training are arranged by Inresol AB.

It is expected of distributors and dealers to pass on this knowledge to your all staff involved during build up of sales.



For more information, data sheets, distribution agreements, reseller agreements, license agreements price lists and more.. Please contact us directly at:



[info@inresol.se](mailto:info@inresol.se)

[www.inresol.se](http://www.inresol.se)



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Innovative Renewable Energy Solutions