

**30º Congreso de la AIGLP  
Rio, Brazil  
April 2015**

**Exceptional Energy in Action  
The LPG Applications Website**

**Nikos Xydas  
WLPGA Technical Director  
[nxydas@wlpga.org](mailto:nxydas@wlpga.org)**



# The destination....you imagined it....

## Exceptional Energy in Action

The largest and most complete LPG / Propane Applications Database /  
Website in the Industry



## Why

- To support the positioning of LPG / Propane as Exceptional Energy
- To demonstrate its endless uses
- To stimulate the dissemination of new technology
- To build a knowledge base on LPG / Propane applications

## Our Vision

- Be the reference for LPG / propane applications
- Be top of internet searches
- Promote the industry and our members

## Target Users

- Everyone, LPG / Propane industry, Energy professionals, Policy Makers, the public



<Video>

<https://www.youtube.com/embed/e63jy4a90LM>

# Exceptional Energy in Action

## The LPG Applications Database

---



[www.lpg-apps.org](http://www.lpg-apps.org)

# Exceptional Energy in Action

## The LPG Applications Database



Search by Sector eg « Agricultural »

ABOUT THIS SITE   APPLICATIONS   FUNCTIONS   WHY LPG?   SEARCH   WLPGA   NEWS   LIBRARY

### Green meets Green

Learn more on the environmental benefits of LPG powered mowers

#### About this site

Welcome to the **Exceptional Energy in Action**. This site aims to be the most comprehensive and authoritative database for LPG applications available on the web. If this is your first visit we would recommend you read our "About this site" complete information page.

#### Applications Area

- Industrial**  
Find out more what LPG can do for your business. [READ MORE](#)
- Agricultural**  
Discover how LPG can make your farm more efficient. [READ MORE](#)
- Professional & Commercial**  
From bakeries to fork lift truck. Explore the versatility of LPG. [READ MORE](#)
- Mobility & Transport**  
Enter the world of low emission transport. [READ MORE](#)

# Exceptional Energy in Action

## The LPG Applications Database

ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

> Industrial

> **Agricultural**

> Agriculture General

> Greenhouses

> Horticulture

> Livestock Farming

> Professional & Commercial

> Energy/Power

> Mobility & Transport

> Domestic/Residential

> Outdoor/Recreation/Sports

> Public Sector

## Agricultural

Farmers across the world rely on LPG as an adaptable power source to keep their businesses growing. LPG allows them to meet the challenge of staying competitive in the modern agricultural environment, whilst maintaining a commitment to sustainable development. No other fuel offers a comparable combination of portability, accessibility and convenience of use.

Whether used for **livestock-rearing**, **crop-drying**, **weed** and animal waste disposal or simply **fuelling agricultural machinery**, LPG is an essential tool for the contemporary farmer; clean combustion ensures crops, feeds and litter are not contaminated. The CO<sub>2</sub> by-product can be diverted and repurposed to increase yields in greenhouses whilst the moist heat given out by LPG can help induce rapid, even feathering of poultry.

The cost of LPG in farming applications is comparable with traditional chemical methods. As farmers seek more environmentally friendly production methods, LPG is the clear choice. It enables farmers to achieve responsible results, that is, farming can be done organically and efficiently. LPG provides a cleaner, greener, versatile energy source for farmers. Whatever the application, LPG is a viable alternative fuel ready to power modern agriculture all across the world.



Agriculture General



Greenhouses



Horticulture

# Exceptional Energy in Action

## The LPG Applications Database



### Search by Function eg « Power / Electricity Generation »

> Additional Supply or Natural Gas Backup

> Air conditioning

> Baking

> Water Heating (Industrial)

> Cleaning

> CO2 Production & Enrichment

> Concrete curing

> Concrete treatment

> Cooling

> Cremation Services

> Drying (Crop, Cereal, Fruit & Tobacco)

> Power / Electricity Generation

### Functions

There are more than 1000 ways one can use LPG. Hundreds of millions of people currently use LPG in a variety of its functions and depend on it for thousands of applications, in commercial business, industry, transportation, farming, power generation, cooking, heating and for recreational purposes.



Only LPG can serve such a wide variety of uses such as cooking fuel for a family in South Africa and a community kitchen in India, refrigeration for a shop owner in Brazil, autogas for taxis in Tokyo, welding for car manufacturers in Germany, heat for the family home in Canada, flame weeding for a rancher in Texas, heat to provide lift for the first solo non-stop round the world balloon expedition, hair spray for the Hollywood starlets and life saving fuel for Mt Everest climbers. LPG even powers the Olympic torch. That's why it is referred to as the world's most multi-purpose energy.

A full list of the various functions and ways that LPG can be used can be found in the left hand side menu, just click on them to discover



# Exceptional Energy in Action

## The LPG Applications Database



### Exceptional Energy in Action

The global portal on LPG Applications

Feedback on this page



ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

> Additional Supply or Natural Gas Backup

> Air conditioning

> Baking

> Water Heating (Industrial)

> Cleaning

> CO2 Production & Enrichment

> Concrete curing

> Concrete treatment

## Power / Electricity Generation

As one of the cleanest conventional fuels available, LPG has become a viable choice to facilitate the generation of off-grid electricity.

LPG enables highly efficient decentralised generation through self-containing **generators** and **combined heat and power** systems.

LPG also complements renewable energy sources and technologies which depend on specific weather conditions or daylight.

LPG has become a highly desirable fuel alternative in the emergent fuel cell technology spectrum.

For these types of localised power generation, LPG is clean burning and has a carbon footprint that is lower than that of diesel and significantly lower than gasoline.

It is easily stored in both large tanks or in smaller gallon cylinders and has a significantly longer shelf life than conventional alternatives. It is available during during power outages and LPG-powered units have lower noise levels.

### Applications



### Power/Electricity Generators

The supply of electrical power has become paramount to the success of daily activities. Demand has increased exponentially due to population growth and is

# Exceptional Energy in Action

## The LPG Applications Database

> Cleaning

significantly lower than gasoline.

> CO2 Production & Enrichment

It is easily stored in both large tanks or in smaller gallon cylinders and has a significantly longer shelf life than conventional alternatives. It is available during during power outages and LPG-powered units have lower noise levels.

> Concrete curing

### Applications

> Concrete treatment



> Cooling

### Power/Electricity Generators

The supply of electrical power has become paramount to the success of daily activities. Demand has increased exponentially due to population growth and is emphasised with the rapid development of ... [READ MORE](#)

> Cremation Services

> Drying (Crop, Cereal, Fruit & Tobacco)



### Combined Heat and Power (CHP)

Combined Heat and Power (CHP) Systems are a form of distributed generation that offer an alternative to purchasing electricity from local suppliers. They allow for heat and electricity to be ... [READ MORE](#)

> **Power / Electricity Generation**

> Lighting Fishing Boats

> Fog dispersion



### LPG Gas Turbines

An LPG fuelled Gas Turbine is more efficient and reliable than the equivalent diesel unit. Being often cheaper than diesel, LPG constitutes a very attractive fuel for GT power generation. Various applications using ... [READ MORE](#)

> Frost protection

> Furnace & Machinery Heating

# Exceptional Energy in Action

## The LPG Applications Database



### Exceptional Energy in Action

The global portal on LPG Applications

Feedback on this page



ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

> Additional Supply or Natural Gas Backup

> Air conditioning

> Baking

> Water Heating (Industrial)

> Cleaning

> CO2 Production & Enrichment

> Concrete curing

> Concrete treatment

## Power/Electricity Generators

The supply of electrical power has become paramount to the success of daily activities. Demand has increased exponentially due to population growth and is emphasised with the rapid development of technology and power-thirsty electrical equipment which make life easier and more efficient (computers, Televisions etc.).

With several developing areas still lacking consistent electrical grid power supply, independent fuel-powered generators have become increasingly crucial to fill the subsequent energy gap. While most of these outages last 20 to 30 minutes, a J.D. Power and Associates study put the average extended power outage at eight hours.

Generator sets are individual units that supply electrical power for various uses: as backup power for shops, restaurants, offices, farms; for residential use and with outdoor activities; as well as to power various social activities and centres.

They are available in a wide range of models with power outputs ranging from 700 to 15000 Watts.

Generators are commonly produced in two formats depending on their required functions:

### Videos



### Related Links

- > Propane Generators
- > Standby Generator Checklist
- > Using propane for standby generators and CHP
- > Portable Generators for the

# Exceptional Energy in Action

## The LPG Applications Database

> Heating (Greenhouses)

> Heating (Outdoor)

> Heating (Truck cabin)

> Warm up & glow

> Waste Management

> Water Heating

> Steam Generation

> Water Pumping & Bailing

> Weed Control

> Drying

> Moulding

> Heating (Indoor)

> Automotive Fuel

### Photo Gallery



### Manufacturers (4) and Resources



#### Calor (Generators)

FEATURED MEMBER

> MORE



#### PERC (Generators)

FEATURED MEMBER

> MORE



#### Elgas (Generators)

FEATURED MEMBER

> MORE



#### Greengear

FEATURED MEMBER

> MORE

### Find a manufacturer

To find a manufacturer, please select a region below.

Africa



Search the database

SUGGEST A MANUFACTURER



# Exceptional Energy in Action

## The LPG Applications Database

Search by Keywords eg « Mowers »

### Find an Application

Sector:  ▼

Sub sector:  ▼

Functions:  ▼

Region:  ▼

[Search the database](#)

### Full Search

If you know what you are looking for you can do a search on the entire database

[Q](#)

### Exceptional Energy News

#### What's New on the Website

[Resource links added for Agricultural Irrigation Systems](#)  
17 OCTOBER 2014

[Resource links added on Grain Dryers page](#)  
17 OCTOBER 2014


#### Applications News

[Tankless water heater includes programmable recirculating pump](#)  
21 OCTOBER 2014

[A World Stage for Propane Technology, Applications and Appliances hosted by PERC, at the World LP Gas Forum in Miami](#)

### Quick Links

- [WORLD LPG ASSOCIATION](#) >
- [LOCAL MEMBER RESOURCES](#) >
- [SUGGEST A MANUFACTURER](#) >



# Exceptional Energy in Action

## The LPG Applications Database



### Exceptional Energy in Action

The global portal on LPG Applications

Feedback on this page



ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

> Industrial

> Agricultural

> Professional & Commercial

> Energy/Power

> Mobility & Transport

> Domestic/Residential

> Outdoor/Recreation/Sports

> Public Sector

## Lawn Mowers

Lawn mowers are ground care equipment used to cut grass and plants. They are produced in varying models and sizes to suit different domestic and commercial needs. Domestic mowers are traditionally powered by gasoline (petrol) whilst electric mowers also rose to prominence in more recent years (corded and cordless models).

LPG mowers are also available in various sizes and manufacturer models. Zero-turn (ZTR) riding mowers are the most popular mowers, however many manufacturers also offer walk-behind and stand-on options. ZTR mowers drive faster than other models and can pivot 180 degrees without leaving a circle of uncut grass. LPG's high octane rating and low carbon and oil contamination may result in reduced maintenance costs and longer engine life. Conversion kits are also available that enable gasoline-fueled mowers to run on propane.

## Features

Specific models feature the new Kohler Electronic fuel injection (EFI) engine which significantly improves the runtime and operating performance of the mowers. The

## Case Study



The lower cost of propane and improved sustainability resonate for ... [READ MORE](#)

[SEE ALL RELATED CASE STUDIES](#)



# Exceptional Energy in Action

## The LPG Applications Database



### Exceptional Energy in Action

The global portal on LPG Applications

Feedback on this page

ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

> Industrial

> Agricultural

> Professional & Commercial

> Energy/Power

> Mobility & Transport

> Domestic/Residential

> Outdoor/Recreation/Sports

> Public Sector

## Lawn Mowers

Lawn mowers are ground care equipment used to cut grass and plants. They are produced in varying models and sizes to suit different domestic and commercial needs. Domestic mowers are traditionally powered by gasoline (petrol) whilst electric mowers also rose to prominence in more recent years (corded and cordless models).

LPG mowers are also available in various sizes and manufacturer models. Zero-turn (ZTR) riding mowers are the most popular mowers, however many manufacturers also offer walk-behind and stand-on options. ZTR mowers drive faster than other models and can pivot 180 degrees without leaving a circle of uncut grass. LPG's high octane rating and low carbon and oil contamination may result in reduced maintenance costs and longer engine life. Conversion kits are also available that enable gasoline-fueled mowers to run on propane.

## Features

Specific models feature the new Kohler Electronic fuel injection (EFI) engine which significantly improves the runtime and operating performance of the mowers. The

### Case Study



The lower cost of propane and improved sustainability resonate for ... [READ MORE](#)

[SEE ALL RELATED CASE STUDIES](#)



# Exceptional Energy in Action

## The LPG Applications Database



### Exceptional Energy in Action

The global portal on LPG Applications

Feedback on this page



ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

> Documents

> Case Studies

### Documents

 [The Role of LPG in Food and Beverage industry, the Knockdhu Distillery, Single Malt Whisky Production in Scotland](#)

20 OCTOBER 2014

The Role of LPG in Food and Beverage production, read about the Knockdhu Distillery and the Single Malt Whisky Production in Scotland

 [Fuel- Flexible Gas Turbine Cogeneration](#)

14 OCTOBER 2014

Power-Gen Asia 2008- Kuala Lumpur, Malaysia. October 21-23, 2008

 [GE Gas Turbine Fuel Flexibility White Paper](#)

14 OCTOBER 2014

GE Gas Turbine Fuel Flexibility White Paper





# Exceptional Energy in Action

## The LPG Applications Database



### Exceptional Energy News

#### What's New on the Website

Resource links added for Agricultural Irrigation Systems

17 OCTOBER 2014

Resource links added on Grain Dryers page

17 OCTOBER 2014

New Documents on Gas Turbines

14 OCTOBER 2014

[READ MORE](#)

#### Applications News

Tankless water heater includes programmable recirculating pump

21 OCTOBER 2014

A World Stage for Propane Technology, Applications and Appliances hosted by PERC, at the World LP Gas Forum in Miami

20 OCTOBER 2014

Propane Technology for Small Engines on CNN

16 OCTOBER 2014

[READ MORE](#)

#### Quick Links

[WORLD LPG ASSOCIATION](#)



[LOCAL MEMBER RESOURCES](#)



[SUGGEST A MANUFACTURER](#)



#### ABOUT THE WLPGA

The WLPGA is the *global voice for the LP Gas industry*. Its members represent the entire LP Gas value chain. The WLPGA unites the broad interests of the worldwide LP Gas industry into one strong independent organisation.

[READ MORE](#)

#### LOOKING FOR AN APPLICATION

Were you looking for an LPG powered application and could not find it here, get in touch.

[CONTACT US](#)



#### SUGGEST AN APPLICATION

Do you know of an LPG application that is not featured on this site, please let us know.

[CLICK HERE](#)



#### CONNECT WITH US



Join our **YOUTUBE** channel



Follow us on **TWITTER**



Join us on **LINKEDIN**

# Exceptional Energy in Action

## The LPG Applications Database



**Exceptional Energy in Action**  
The global portal on LPG Applications

Feedback on this page



ABOUT THIS SITE

APPLICATIONS

FUNCTIONS

WHY LPG?

SEARCH

WLPGA

NEWS

LIBRARY

### Green meets Green

Learn more on the environmental benefits of LPG powered mowers

#### About this site

Welcome to the **Exceptional Energy in Action**. This site aims to be the most comprehensive and authoritative database for LPG applications available on the web. If this is your first visit we would recommend you read our "[About this site](#)" complete information page.

#### Applications Area



# Exceptional Energy in Action

## The LPG Applications Database

---



And this is only the beginning, we keep building on it continuously and we need the support of everyone in the propane / LPG industry

- Help us make this website known, link it to your websites, promote it with your media and contacts
- Subscribe to our twitter feed @lpgapps to ensure that you get news and updates
- Give us your feedback so that we can keep enhancing to meet best the needs of our industry
- Contribute with your resources to its further development, help develop pages with your own materials
- Applications and appliance manufacturers to let us know of new products and technology developments

# Exceptional Energy in Action

## The LPG Applications Database



# Thank you

The screenshot displays the homepage of the 'Exceptional Energy in Action' website. At the top left is the LPG logo with the tagline 'EXCEPTIONAL ENERGY'. To its right is the site title 'Exceptional Energy in Action' and the subtitle 'The global portal on LPG Applications'. A search bar and a 'Feedback on this page' button are located in the top right corner. Below the header is a teal navigation menu with links for 'ABOUT THIS SITE', 'APPLICATIONS', 'FUNCTIONS', 'WHY LPG?', 'SEARCH', 'WLPGA', 'NEWS', and 'LIBRARY'. The main content area features a large image of a greenhouse with the heading 'Feeding our Food' and a sub-heading 'Find out how LPG can keep your greenhouse warm and increase yields'. To the right of this image is an 'About this site' section with a welcome message and a brief description of the database's purpose. Below this is an 'Applications Area' section with eight categories, each represented by a small image and a text box with a 'READ MORE' link: Industrial, Agricultural, Professional & Commercial, Mobility & Transport, Energy & Power, Domestic, Recreational, and Public Sector.

