



# SCANIA

## *PRESS info*

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Scania Industrial & Marine Engines:

## **PRIME POWER FROM ETHANOL IN GENERATOR SETS**

**Windmills throughout California produce environment friendly energy. However, during the summer months between 12 noon and 5 PM the wind force is not sufficient to power the windmills. This is the opportunity for the Scania ethanol engines to generate clean power. Scania's ethanol engines produce zero particles and the emissions of both nitrogen oxide and carbon dioxide are significantly lower than of a conventional diesel engine. This is also, the only ethanol engine certified by the California Air Resources Board.**

The Swedish truck and bus manufacturer Scania has delivered six 9-litre engines to Wintec Energy Ltd. in the San Geronio-area outside Palm Springs. The company, which produces energy from windmills, needed an environment friendly alternative during the periods the wind power is insufficient.

When the wind subside, Wintec Energy Ltd. previously could not deliver electricity to the grid from a power source that used a renewable fuel. Scania solved this problem by supplying ethanol fuelled engines that are the only zero-particulate, liquid-fuelled, heavy duty, compression-ignition engines that so far have been certified by the California Air Resources Board (CARB). These engines produce 60 percent less NOX, 90 percent less CO and 90 percent less hydrocarbons compared with conventional diesel engines.

"We have extensive experience from ethanol engines", says Odd Strandberg, Regional Sales Manager at Scania Industrial & Marine Engines. "In Sweden we have more than 400 ethanol-powered city buses in operation. Our ethanol engines are great substitutes for diesel engines in a variety of applications. As the power source for back-up generators, buses or other on or off-road vehicles, these engines will significantly contribute to a cleaner and healthier environment".

Ethanol is an alternative fuel that can be produced from organic products as corn and the forestry and winemaking industry. It is a renewable fuel. Unlike diesel oil, it does not make a net contribution to atmospheric carbon dioxide as a result of combustion. The only drawback is higher fuel consumption as ethanol has lower energy content (BTU) than diesel fuel.

**Basic data about the Scania D9E 40A ethanol engine**

Engine type	Water-cooled, 4-stroke turbo charged ethanol engine with direct injection.
No. of cylinders	6 in line
Displacement	9 liter (550 in <sup>3</sup> )
Bore	115 mm (4.53 in)
Stroke	144 mm (5.67 in)
Weight, excl. oil and water	825 kilos (1.819 lb)
Fuel consumption	390 g/kWh (70 litre/h or 18,5 gallon)
Output power	170 kWm gross at 1 800 r/min

**For more information:**

About the Scania ethanol engines, please contact Odd Strandberg, Region Sales Manager at Scania Industrial & Marine Engines, phone +46 8 553 828 65, mobile +46 70 693 27 12 or email [odd.strandberg@scania.com](mailto:odd.strandberg@scania.com). You can also contact our USA office: Claes Sundberg, President, Scania USA Inc., phone 210 403 0007, email [contact@scaniausainc.com](mailto:contact@scaniausainc.com).

About ethanol and ethanol engine operation, please contact Doug Vind, President of Regent International, phone 714 990 3333, email [dbvbrea@aol.com](mailto:dbvbrea@aol.com). They supply ethanol fuel made in Southern California from recycled municipal waste.

*Scania is one of the world's leading manufacturers of trucks and buses for heavy transport applications, and of industrial and marine engines. With 26,900 employees and production facilities in Europe and Latin America, Scania is one of the most profitable companies in its sector. In 2000, turnover totalled SEK 53,800 million and the result after financial items was SEK 4,500 million. Scania products are marketed in about 100 countries worldwide and some 95 percent of Scania's vehicles are sold outside Sweden. Scania press releases are available on the Internet, [www.scania.com](http://www.scania.com)*

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