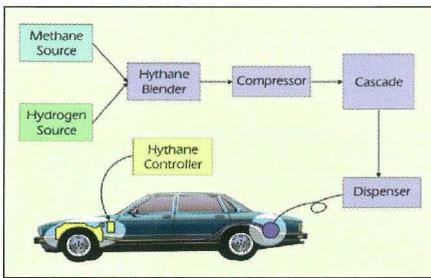


Eden Energy In Historic US Hydrogen Fuel Test

Eden Energy has received a \$2.78 million grant from the United States Department of Energy (DOE) to carry out a long-term test of two hydrogen fuel types to develop an ultra-clean hydrogen fuel for automotive combustion engines.

Eden's Executive Chairman, Greg Solomon, said the company's fully owned subsidiary, Colorado based Hythane Company, has been awarded the first long-term test of engines fuelled by hydrogen, and a hydrogen-natural gas mixture called Hythane®, to be carried out in the United States. The deal is subject to the company completing an audit and contract negotiations with the DOE. Eden Energy – which is 27% owned by Perth based listed minerals explorer, Tasman Resources NL - has fostered the development of Hythane®.



The Hythane operating system.

"This is the first breakthrough into the massive American automotive market we have been working towards", Solomon said. "It is a two year project that, for the first time, will establish a 'no compromises' comparison of Hythane® and pure hydrogen based internal combustion engines (ICE) for the automotive sector."

"With increasing acceptance that hydrogen will be the basis of automotive fuels of the future compared to other derivatives currently



Eden Energy Executive Chairman, Greg Solomon.

“The new test work will aggressively simulate real-world, long-term operation of heavy-duty engines and provide sufficient opportunity to push durability and performance deterioration limits.”

under study, the backing of the US DOE catapults Eden and Hythane Co into a lead position in this emerging but potentially huge market opportunity."

Solomon said the company's extensive field tests to date have shown it cuts engine emissions of NO_x and CO₂ by 50% compared with natural gas, and it has major carbon credit potential.

Under the terms of the grant and test programme, two identical, heavy-duty, spark-ignited natural gas engines will be acquired and modified - one to run on Hythane® and the other to run on hydrogen. Hythane Co. will undertake most of the work on the 2,500 hour test program,

which is expected to take two years. "Many previous research, development and demonstration studies have established the operational parameters and emissions performance for hydrogen and hydrogen-blended ICEs but these programs have mostly provided only short-term data", Solomon said. "This new work will establish, for the first time, formal laboratory data on the long-term performance, emissions, and durability of Hythane® and pure hydrogen ICEs.

"It is possible that the hydrogen content in the test fuels, particularly the pure hydrogen powered engine, could contribute to issues with engine lubricants, the engine, component or emissions system materials, the behaviour of fuel supply components, or

combustion product effects. These possible sources for accelerated deterioration may be subtle and require long-term interaction to become apparent.

"The new test work will aggressively simulate real-world, long-term operation of heavy-duty engines and provide sufficient opportunity to push durability and performance deterioration limits."

Eden Energy listed on the Australian Stock Exchange in June after closing early its \$8.4 million Initial Public Offer, having already invested more than \$5 million to date on developing potential world-class energy projects. ■