

METHANE STORAGE IN ACTIVATED CARBONS AND ACTIVATED CARBON FIBRES



CONTACT DETAILS:

Research Results Transfer Office-
OTRI
University of Alicante
Tel.: +34 96 590 99 59
Email: areaempresas@ua.es
<http://innoua.ua.es>

ABSTRACT

Methane is a fuel much cleaner than coal or petroleum derivatives. However it has a transport problem since it is very difficult to liquefy. The Department of Inorganic Chemistry of the University of Alicante has developed technology and process to store methane in activated carbons with high adsorption capacity. For this purpose, very microporous materials are prepared reaching a high uptake in methane adsorption, a high reversibility, and a high packing density.

TECHNOLOGY ADVANTAGES AND INNOVATIVE ASPECTS

This technology is able to prepare adsorbent materials with high packing density and methane delivery

MARKET APPLICATIONS

Natural gas adsorbed on microporous carbons is a promising alternative to compressed natural gas as a clean vehicular fuel for bulk transportation and storage.

COLLABORATION SOUGHT

The partners sought are industries with interest in this technology. The Department of Inorganic Chemistry is interested in transferring its knowledge and know-how of preparation of high density and high surface area activated carbon fibres useful for methane storage.