

# Press Release

## Impulse Hydro to Supply Eastern Star

20. August 2009

After the successful operation of a pilot plant, Queensland water treatment specialist **Impulse Hydro** has received a follow up order from Coal Seam Gas producer, Eastern Star Gas to provide a Reverse Osmosis installation for its Narrabri site in NSW.

"We installed our first RO system in CSG over 2 years ago at Eastern Star Gas and since that time have collated an excellent knowledge base which is now integrated into our CSG offer." said Earle Roberts, CEO of **Impulse Hydro**. "Reverse Osmosis is only one part of our complete 'zero reject stream' offer, however it's an area we have extensive experience in".

Derek Pallet, Technical Manager for **Impulse Hydro** explains: "CSG water has varying treatment requirements. For this reason, we recommend a purpose-built RO system, designed for maximum energy efficiency and maximum recovery. The correct preliminary and pretreatment of the waste water is vital - it can make the difference between economy of operation and the constant fouling of expensive RO membranes".

The new plant incorporates a tailor designed pretreatment system, including **Impulse Hydro's** unique

*Ozone Foam Fractionator*, and removes entrained gases, fine coal particles, oil, iron, bacteria, algae and other fouling material.

This design allows the system to accommodate water from existing evaporation ponds as well as straight from the well, with high reliability and extended membrane life. The use of low energy, sea water membranes in the RO plant delivers an energy efficient system with high recovery.

While water produced by ESG at its Narrabri CSG operation is relatively low in salts and contaminants it is nonetheless unsuitable for immediate use. With treatment like that offered by **Impulse Hydro**, multiple opportunities are available for beneficial use of water that is necessarily produced as a byproduct of coal seam gas production.

Commented Earle Roberts: "Eastern Star Gas has been proactive in its approach to developing its own water treatment operation. ESG has adopted industry best water handling practices to ensure beneficial uses for produced water are identified and implemented".

More details are available at [www.impulshydro.com](http://www.impulshydro.com)

[zero reject stream] → [zero water problem]

For further information please contact  
Earle Roberts, CEO

t. (07) 3283 1197



9 Oasis Court  
(PO Box 3275)  
Clontarf DC  
Q. 4019  
Australia

t. +61 7 3283 1197  
f. +61 7 3889 5255

e. [mail@impulshydro.com](mailto:mail@impulshydro.com)  
w. [www.impulshydro.com](http://www.impulshydro.com)

[water treatment specialists]

