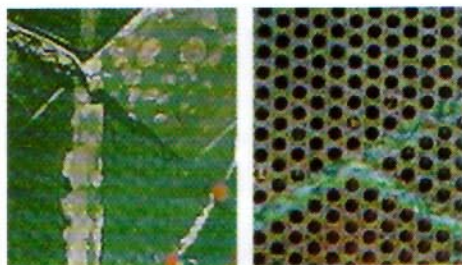


THE AUSTRALIAN TECHNOLOGY SHOWCASE

MEGA TECHNOLOGIES INTERNATIONAL



Before --> After

Mega Technologies is looking for:

- Direct Sales
- Distributors
- Venture capital
- Licencing Arrangements
- Joint Venture Partners

Mega Technologies International Pty Ltd

Permaclean Electrostatic Water Treatment Technology

Permaclean Electrostatic Water Treatment Technology is the breakthrough the world has been waiting for in the nonchemical treatment of water for the elimination of scale and biofilm.

At present the two industries which are benefiting from this unique Queensland technology are those which use cooling towers and condensers to provide cooled water for air conditioning and other commercial/industrial processes and the reverse osmosis industry.

In both these industries the scourge of the systems is scale and biofilm. Scale is formed from the calcium and magnesium inherent in the source water and biofilm is formed from the organic material which comes into the systems from the air. Both of these materials are very good insulators thereby reducing the heat transfer effectiveness of the plant and increasing the amount of energy used to operate the system. Biofilm is also the primary factor in the growth and proliferation of bacterium such as Legionella.

Scale and biofilm have traditionally been treated with a range of chemicals which by their nature are toxic and due to the methods of their use end up discharged to sewerage and on to the sea. However, the waste from Permaclean can be recycled and used for wash up, flushing toilets and even irrigation.

The Permaclean Electrostatic System replaces these chemicals with a very low energy, environmentally friendly system which works around the clock with none of the pollution hazards. PermaClean actually removes existing scale and biofilm and keeps them out of the system. When one considers that without biofilm, bacteria such as Legionella cannot grow and proliferate in a cooling tower system then, along with the energy and water savings, it is easy to see the major benefits of this technology.

Permaclean has also made it possible for ultra violet, an approved and efficient killer of bacterium such as Legionella, to be incorporated in the system. Normally ineffective in such water due to fouling of the U.V. tubes, within Permaclean, optical clarity is maintained ensuring maximum biocidal control.

Permaclean has been trusted for over six years now on some of Australia's largest and most sensitive cooling tower systems. Many national and international companies and institutions here and in Asia have reaped the benefits of energy savings whilst minimising, if not eliminating, the threat of Legionella.

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The Australian Technology Showcase (ATS) is designed to promote global, leading edge, Australian innovative technologies. The ATS aims to increase exports and attract foreign and local venture capital.

The Australian and Queensland Governments have been keen supporters of the ATS since its inception in April 1997. The national focus of the ATS demonstrates the Australian and State Governments' commitment to the promotion of Australian science, engineering and technology internationally, and also serves to increase awareness of Australia's capacity in leading-edge skills and technologies.

Visit the ATS website to:

- Read about Queensland and Australian innovation and ingenuity
- Buy something from the showcase for use in your business
- Get a licence to manufacture or distribute one of the technologies in a new market
- Invest in a company or join a joint venture
- Gain access to the know-how that gave rise to the technology

A panel of independent experts in each state or territory rigorously assesses all applicant technologies to ensure they are clearly innovative and leading edge. Membership to the showcase is reliant upon the technology meeting 10 eligibility criteria. The technology must be:

Clearly innovative and represent a significant step forward in the technology itself or its utilisation

Scientifically credible based on secure principles and understanding

Of significant local content in terms of intellectual property or embodied skills

Demonstrably marketable with an identified existing or potential market advantage and a substantial identified market

Commercially attractive and likely to appeal to international investors and/or offering opportunities for joint venturing

Socially and environmentally beneficial by meeting community needs or standards

Readily exportable as a world class technology with significant global commercial potential

Backed by skilled and committed stakeholders willing and able to make an ongoing contribution to the ATS or with a sound track record of technology commercialisation

Built on strength involving industry sectors or technologies capitalising on local strengths and demonstrating high added value and capacity for growth

Readily implementable as a showcase project or site, capable of being demonstrated onsite by exhibition or by on-line media

The ATS is proudly supported by:



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