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**EXERGY TECHNOLOGIES RECEIVES ENVIRONMENTAL  
BUSINESS JOURNAL'S BUSINESS ACHIEVEMENT AWARD FOR  
EXERGY'S INNOVATIVE ADVANCED  
ELECTRODEIONIZATION (AEDI) TECHNOLOGY**

February 9, 2004, IRVINE, CA – Exergy Technologies, Corporation in Irvine, California has been awarded the prestigious Technology Achievement Award by the Environmental Business Journal for their development of innovative **Advanced Electrodeionization (AEDI)** technology.

The AEDI system removes ionizable constituents from process water and wastewater using ion exchange membranes, ion exchange resins, and a DC electrical potential. The one-step AEDI produces continuous water purification with no chemicals needed for regeneration.

Exergy's AEDI system has been proven to provide **superior separation of ionic components** from process water. Exergy's AEDI provides two

technologies in one: **electrodialysis and ion exchange**. The unique compact design and the space saving skids meet the space limitations of industrial production areas. This is one example why the AEDI is an effective alternative to ion exchange systems that require labor and demand high operating expenses.

The result is a **low maintenance and low cost wastewater recycling system** that produces a high recovery rate of low TDS product water.

The AEDI applications include:

- Direct recovery of electrolytes from active rinses
- Recovery and recycling of process water and wastewater in industrial applications
- Option to recycle chemicals

Unlike mixed bed ion exchange resins that have to be regenerated after becoming loaded with water contaminants, the AEDI modules are designed and built to regenerate the resins utilizing electricity and at the same time generate low TDS process water. The process water from the AEDI system can be recycled and reused in the production or other processes. A **TDS reduction of more than 90%** can be accomplished with a standard AEDI platform. Furthermore, the conductive process water can be used and re-circulated to continuously rinse the AEDI system so that no additional wastewater is generated.

Exergy's award winning AEDI technology represents the future of wastewater recycling with **clean technology, high performance and low maintenance and operating costs**.