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**EXERGY TECHNOLOGIES RECEIVES ENVIRONMENTAL
BUSINESS JOURNAL'S BUSINESS ACHEIVEMENT AWARD FOR
INNOVATIVE TECHNOLOGIES**

March 1, 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) and Membrane Electrolysis (ME) technology. Exergy will be presented the award on March 10th, 2004 at the 2004 Environmental Industry Summit in San Diego, California.

Exergy's AEDI system has been designed to generate continuous purified process water for cleaning and plating operations. 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 90% less TDS** without the need of chemicals 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 space, labor and demand high operating expenses.

The result is a **low maintenance and low cost process 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
- Replaces mixed bed ion exchange systems
- Option to recycle chemicals

Exergy's **ME** technology is used to remove metallic impurities from plating, etching, stripping and other concentrated metal finishing batch solutions. **Membrane electrolysis (ME)** is a membrane process driven by an electrolytic potential. Using selective ion exchange membranes and an electrical potential applied across these membranes, the ME system allows only ions of one specific charge to pass through the membrane. The result is a **high quality process solution** that maintains constant **high bath performance and steady production rates**.

The ME is highly successful in **improving product quality** in production processes and maintains process solutions that meet the requirements of high-quality surface finishing operations. Operating data shows that the ME results in **impressive cost savings** in chrome plating applications. —The ME technology will allow companies to reuse and rejuvenate their chromic acid baths without need for costly waste treatment and disposal.

Typical applications include:

- Purification and regeneration of chromium plating baths
- Recycling and maintenance of chrome conversion coating solutions
- Reactivation and metal removal from deoxidizing solutions

Exergy's award winning ME technology represents the future of plating bath maintenance and regeneration technology. In addition, the **ME technology** offers a clean and effective wastewater recycling solution with **high performance and low operating costs**.