

NEWS RELEASE

For Release ASAP Marketwire
June 1, 2009

AEHI nuclear plant rezone may be decided June 8th

Boise, Idaho, June 1, 2009 – Alternate Energy Holdings, Inc (OTC: AEHI.PK): The future of the only proposed nuclear plant in Idaho and west of the Rocky Mountains by nuclear power veterans may be decided on June 8th. The three-member Elmore County Commission is set to discuss the issue, after hearing more than four hours of testimony in April. By law, the commission must deliberate and vote publicly. Over 500 people, far outnumbering the opposition, came to the April 22 hearing to support the rezone. The company is encouraged by the support of state leaders and county citizens for this advanced nuclear plant that will help fill the regional base load power void while creating thousands of local jobs.

AEHI is proposing an advanced nuclear reactor in Mexico to desalinate sea water into potable water for the southwestern US. The company has an MOU for land-water for an advanced nuclear reactor site plus joint venture on solar at the Colorado Energy Park near Pueblo, CO. Also, the company is in early discussions regarding supplying a reactor to help remove oil from Tar Sands in Alberta, Canada. Another AEHI holding is Energy Neutral which uses technology and renewables to virtually eliminate energy bills for homes, businesses and farms, and is beginning to do business in Arizona, Colorado and Idaho.

The company has arrangements in several Asian countries, including China and Korea to obtain funding and strategic partners for its projects.

[About Alternate Energy Holdings, Inc. \(www.alternateenergyholdings.com\)](http://www.alternateenergyholdings.com)

Alternate Energy Holdings develops and markets innovative clean energy sources. Current projects include the Idaho Energy Complex (an advanced nuclear plant and bio-fuel generation facility, energy-neutral home and business technology (www.energyneutralinc.com), Colorado Energy Park and International Reactors, Inc., which assists developing countries with nuclear reactors for power generation, production of potable water and other suitable applications.

“Safe Harbor” Statement under the Private Securities Litigation Reform Act of 1995: This press release may contain certain forward-looking statements within the meaning of Sections 27A & 21E of the amended Securities and Exchange Acts of 1933-34, which are intended to be covered by the safe harbors created thereby. Although AEHI believes that the assumptions underlying the forward-looking statements contained herein are reasonable, there can be no assurance that these statements included in this press release will prove accurate.

US Investor Relations:

208-939-9311

invest@ahipower.com