

NEWS RELEASE
For 9:15 am
August 6, 2009

AEHI's Idaho Nuclear Plant Offered Multiple Sites

Boise, Idaho, August 6, 2009 – Alternate Energy Holdings, Inc. (OTC: AEHI.PK): AEHI is pleased to announce several Idaho counties and the state have recently offered lands for AEHI's nuclear plant following delays in local approval at the current site in Elmore County.

AEHI CEO and president Don Gillispie said, "It is certainly exciting to have so many in Idaho recognize the tremendous benefits of a next generation, environmentally friendly nuclear plant including high paying jobs, great tax revenue; and abundant, low cost, clean power in a region that is critically short on base load energy options. Elmore County's delay has created a friendly competition for our plant. We are now looking at two additional sites outside of the current county that may actually receive local approval before the existing site."

AEHI's site engineering contractor is completing their assessments so we can move forward in a timely manner on these new nuclear plant locations.

Also, the company has also been in contact with several non-nuclear utilities who are considering nuclear plants instead of continuing to invest in the rising cost of carbon plants going forward and need nuclear experienced partners.

"This is likely to be an increasing trend as primarily fossil based utilities realize nuclear is the only viable option for clean base load power today. While nuclear prices are affordable and stable, fossil-fuel prices continue to rise dramatically and fewer carbon base load plants negatively impacts reliability for their customers," says Gillispie.

About Alternate Energy Holdings, Inc. (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 which removes energy demands from homes and businesses (www.energyneutralinc.com), Colorado Energy Park (nuclear and solar generating plants) and International Reactors, Inc., which assists developing countries with nuclear reactors for power generation, production of potable water and other suitable applications.

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.

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