

London, 5<sup>th</sup> December 2014

**UK Liquid Air Energy Storage company Highview Power Storage signs licence and investment deal with US power company Advanced Emissions Solutions, Inc.**

*Highview Power Storage, a UK based designer and developer of innovative Liquid Air Energy Storage (LAES) systems, has signed a licence agreement with leading US clean coal technology provider, Advanced Emissions Solutions, Inc. of Denver, Colorado.*

**Advanced Emissions Solutions, Inc. through its subsidiary ADA-ES, has signed a licence agreement and invested £1.75 million in Highview Power Storage. The licence agreement is for grid-connected LAES non-peaker plant storage applications covering North America (US, Canada and Mexico). ADA-ES, the leading clean coal technology specialists, are broadening their offering with their investment in Highview at a time when energy storage is proving to have a significant role to play in the electricity market, to help balance electricity systems and support intermittent renewables.**

Highview, leaders in LAES systems, has operated a grid connected 350kW/2.5MWh pilot plant in Slough, Greater London since 2010, and is now working on deploying a new pre-commercial 5MW demonstrator, to be based in Greater Manchester, in collaboration with energy and waste management company Viridor and the UK Government's Department of Energy and Climate Change (DECC). LAES technology can be scaled to deliver large-scale, long duration energy storage from around 5MW output and 15MWh of storage capacity to significantly more than 50MW output and 200MWh of capacity. It can be considered as being similar to medium scale pumped hydro-electricity storage, but without the geographical restrictions of mountains and reservoirs.

Highview's CEO, Gareth Brett said, *"Signing the licence agreement with ADA-ES is a major step for Highview, and brings to an end an exciting and productive year for the company. We very much look forward to working with ADA-ES and drawing on their expertise in the US market to progress the technology even further. We also welcome their CEO, Dr. Michael Durham to our Board of Directors."*

Dr. Michael D. Durham, President and CEO of Advanced Emissions Solutions said, *"We are very excited about working with Highview to bring this technology to markets in North America. As we looked for the best technology for large grid-scale energy storage, we concluded that the LAES technology had significant advantages for this market and that Highview was years ahead of anyone else pursuing this approach. We look forward to further developing the technology and application to meet our customer's emerging energy challenges"*

**Ends**

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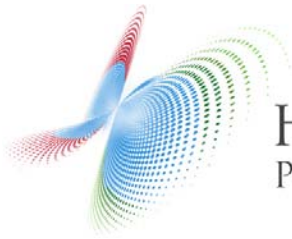
**Note for editors**

**Highview Power Storage** is a privately owned, award-winning technology company located in Central London, England. Highview has developed and owns the Intellectual Property to its proprietary, large scale long duration Liquid Air Energy Storage (LAES) system. The system can simultaneously convert low grade waste heat into power during the discharge cycle, further increasing the overall efficiency by producing additional power. At the beginning of the year Highview signed a licence agreement with GE Oil & Gas Nuovo Pignone, to develop the integration of Highview's LAES technology into its peaker plant offering. For more information please visit, [www.highview-power.com](http://www.highview-power.com)

**Advanced Emissions Solutions, Inc.** (NASDAQ:ADES) serves as the holding entity for a family of companies that provide emissions solutions to customers in the power generation and other industries.

ADA-ES, Inc. ("ADA") supplies Activated Carbon Injection ("ACI") systems for mercury control, Dry Sorbent Injection ("DSI") systems for acid gases, and technology services and other offerings in support of our customers' emissions compliance strategies. ADA's M-Prove™ technology, which reduces emissions of mercury and other metals from PRB coal, is applied directly to coal at power plants, or offered through a licensing agreement with Arch Coal for application at their mines. In addition, we are developing technologies to advance cleaner energy, including CO2 emissions control technologies through projects funded by the U.S. Department of Energy ("DOE") and industry participants.

Clean Coal Solutions, LLC ("CCS"), is a 42.5% owned joint venture by ADA that provides ADA's patented Refined Coal ("RC") CyClean™ technology to enhance combustion of and reduce emissions of NOx and mercury from coals in cyclone boilers and ADA's patent pending M-45™ and M-45-PC™ technologies for Circulating Fluidized boilers and Pulverized Coal boilers respectively.



BCSI, LLC is a custom designer and fabricator of engineered emissions control technologies, bulk material handling equipment, bulk storage systems, water/waste water treatment equipment, and custom components. BCSI supplies Dry Sorbent Injection (“DSI”) systems for acid gas control using its technologically advanced cool, dry conditioned conveying air systems. BCSI’s technical solutions serve a wide range of industrial clients including; coal fired utilities, water treatment, wastewater, cement kilns, food processing and industrial boilers. BCSI employs engineers and trade professionals at a 190,000+sq. ft. fabrication and office facility located in McKeesport, PA.

*This press release contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, which provides a “safe harbor” for such statements in certain circumstances. The forward-looking statements include statements or expectations regarding expected timing and tonnage of operations of RC facilities, expected timing of the lease or sale of RC facilities, revenues, cash flows and related matters. These statements are based on current expectations, estimates, projections, beliefs and assumptions of our management. Such statements involve significant risks and uncertainties. Actual events or results could differ materially from those discussed in the forward-looking statements as a result of various factors, including but not limited to changes in laws, regulations and IRS interpretations or guidance, economic conditions and market demand; timing of laws, regulations and any legal challenges to or repeal of them; failure of the RC facilities to produce coal that qualifies for tax credits; termination of or amendments to the contracts for RC facilities; decreases in the production of RC; availability, cost of and demand for alternative tax credit vehicles and other technologies; technical and operational difficulties; availability of raw materials and equipment; loss of key personnel; intellectual property infringement claims from third parties; impact of the weather and other factors discussed in greater detail in our filings with the Securities and Exchange Commission (“SEC”). You are cautioned not to place undue reliance on such statements and to consult our SEC filings for additional risks and uncertainties that may apply to our business and the ownership of our securities. Our forward-looking statements are presented as of the date made, and we disclaim any duty to update such statements unless required by law to do so.*