

# AMP Quick Facts

## ClearSign Combustion Corporation (NSC: CLIR)

Scientific &  
Technical Instruments



<b>NASDAQ:</b>	<b>CLIR</b>
<b>Last Price:</b>	<b>\$6.00</b>
<b>11/29/2013</b>	
<b>Fiscal Year:</b>	<b>12/31</b>
<b>Sector:</b>	<b>Technology</b>
<b>Industry:</b>	<b>Scientific &amp; Electronic Instruments</b>
<b>Market Cap:</b>	<b>\$52.3M</b>
<b>Potential Market:</b>	<b>\$50B</b>
<b>52 W. High:</b>	<b>\$11.21</b>
<b>52 W. Low:</b>	<b>\$4.01</b>
<b>Insider Ownership:</b>	<b>27.09%</b>
<b>Institutional Ownership:</b>	<b>9.5%</b>
<b>Shares Out.</b>	<b>8.84M</b>
<b>Float:</b>	<b>6.69M</b>
<b>Avg. Daily: Vol. (3 M)</b>	<b>47,270</b>

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**ClearSign Combustion Corporation (NASDAQ: CLIR)** designs and develops technologies that aim to improve key performance characteristics of combustion systems including energy efficiency, emissions control, fuel flexibility and overall cost effectiveness. CLIR's Electrodynamic Combustion Control™ (ECC™) platform technology improves control of flame shape and heat transfer and optimizes the complex chemical reactions that occur during combustion in order to minimize harmful emissions. ClearSign's electrostatic flame-shaping technology is superior to all the current remediation solutions as it inhibits the creation of pollution at the source, and also provides additional benefits in the form of improved combustion efficiency.

ClearSign ECC technology is the only combustion technology that exists today that has the ability to simultaneously improve emissions control performance and meet regulatory standards, while yielding a significant increase in energy efficiency. ECC can be adapted to various fuel types and multiple system sizes and configurations, and can be deployed on both a retrofit and new-build basis.

CLIR is a greenfield opportunity, with Intellectual Property right covering over 188 patents filed with 150 invention disclosures. The Combustion Equipment, Controls & Systems market was valued at \$87.87 billion in 2012, and is expected to reach \$118.19 billion by 2018.

CLIR's market is divided into two broad segments. The first, industrial combustion includes both solid fuel systems such as cement kilns, wood and biomass furnaces and industrial coal systems as well as gas-fired systems such as down-fired petrochemical reformers and natural gas-fired boilers.

The second segment, power generation, includes electric power plants fueled by pulverized coal and those utilizing gas-turbines. In each market segment and sub-segment, CLIR plans to initially market solutions that it believes could be cost-effective retrofitting of the technology onto existing, standard system designs to simultaneously improve both their energy efficiency and pollution control characteristics.

- Pollution control cost at any one of the 1,436 utilities in the United States can be as high as \$500 million.
- There are 163,000 US Industrial Gas-Fired Boilers.
- There are over 500,000 industrial coal-fired burners in China and 105 factories in China have been forced to suspend operations this year.
- 2/3 of Worlds energy is combustion.
- A 1% efficiency gain is considered a "big deal" or even "game changing".

**CLIR has executed a letter of intent to enter into a multi-phase commercial development agreement with one of the world's leading waste and energy services companies, with facilities in the US and internationally.**

**ClearSign's technology can create compelling economic benefits:**

- Improved Energy Efficiency
- Improved Process Throughput
- Increased ROIC

**\*Emissions control systems become profit generating upgrades to existing assets vs. a compliance cost**

**Intellectual Property: The Company has over 188 patents filed with 150 invention disclosures with a "Greenfield" Opportunity:**

- Disruptive, proprietary technology
- Simple to implement
- Multiple, immense global markets
- World class team and prospective partners
- Clearsign (CLIR) can become a dominant player

**CLIR current stock price ~ \$6 per share, market-cap of \$53 million and a market opportunity of over \$50 billion, the upside potential should be explored by investors looking for a solid growth company for their portfolio.**

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