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E.ON Energie proves optimized post combustion capture process from Cansolv Technologies in a pilot plant

The goal of the project is the engineering development test of an innovative technology for carbon capture from coal fired power plants. The start-up of operation of the pilot plant, which will be installed at the German Heyden power plant (near Minden in Northrhine Westphalia), is scheduled for the end of 2009. This plant will mark an important step towards climate friendly low carbon power plant technology. The project is an important element of the E.ON Energie engagement that is focussing on progress in terms of ecological and economic characteristics of the post combustion capture technology and that is driving the commercialization of this technology.

Cansolv Technologies Inc. is an innovative, Canadian technology company that has recently expanded their range of technologies to include carbon dioxide capture. Therewith, Cansolv is keenly anticipating the application of their proprietary technology in the worldwide power generation business together with E.ON Energie.

“We are proud that we found in E.ON Energie a strong and competent partner from the power business and look forward to learning from their broad experience in power plant engineering and operation. With this project we intend to prove not only our engineering capabilities, but the potential of our technology – especially in Europe. We will show how efficient and economic post combustion capture can really be“, comments Bernard West, President and CEO of Cansolv Technologies about this project.

“We are glad to have a competent and also very flexible partner like Cansolv. I am sure that the competencies of both companies complement one another perfectly. We believe that Cansolv has a CO₂ solvent and technology that has the potential to prove to be a very energy efficient way to capture of carbon dioxide from flue gases“, Bernhard Fischer, Chief Technology Officer, member of the executive board of E.ON Energie, points out.

The fully modularized pilot plant will be delivered by Cansolv completely pre assembled to the E.ON Heyden coal fired power plant. For the test phase of two or three years, the plant will be operated on a slipstream of roughly 20.000 cubic meters per hour of flue gas – representing nearly one percent of the total flue gas of this modern power plant unit that has a gross capacity of 920 MW. The pilot plant will have a footprint of nearly 200 square meters. With a height of nearly 40 meters, the absorber will be the highest component and will have a diameter of almost 2.5 meters. Effectively, this pilot plant will be one of the worlds largest of its kind. Overall, the realization of this pilot project will cost nearly 10 Mill. EUR.

“Post Combustion Capture (PCC)” is the technical term for a new technology intended to remove the CO₂ from the flue gas of power plants just before exiting the gas to the atmosphere through the stack. An advantage of this type of technology is that chemical scrubbing processes can be fairly easily retrofitted onto conventional power plants to change



them to climate friendly low carbon power plants. The major disadvantage is that these processes also represent a huge additional energy demand. Therefore the first step is to increase the efficiency of the power plant itself. This is the goal of E.ON Energie in the worlds leading project power plant 50plus in Wilhelmshaven (www.kraftwerk-50plus.com). The Cansolv pilot plant is also expected to act as a development step in post combustion capture, showing that a drastically reduced energy demand is possible.

Cansolv Technologies Inc.

Cansolv Technologies Inc. is a leading provider of state of the art flue gas desulphurization and combustion based CO₂ capture solutions. Cansolv offers its clients high efficiency air pollution and capture solutions for the removal of SO₂ and CO₂ from gas streams in various industrial applications. Further information is available at: www.cansolv.com

E.ON Energie AG

E.ON Energie AG, headquartered in Munich, is Europe's largest privately owned provider of energy services. Over 44.000 employees are responsible for the company's central European electricity and gas business. E.ON Energie supplies some 17 million customers Europe-wide with electricity, gas, and the full range of energy-related services. With its highly efficient fleet of power stations, fuelled by a balanced mix of primary energy resources – primarily fossil fuels, nuclear power, and hydropower – the company generates over 270 billion kWh of electricity per year. E.ON's annual gas sales total 130 billion kWh. Further information is available at: www.eon-energie.com

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