



**STRAMPROY GREEN**

innovative and sustainable energy solutions

**Press Release from Stramproy Green BV, The Netherlands.**

September 27<sup>th</sup> , 2010

**Replacement Coal – A major advance in the worldwide fight to reduce man made production of greenhouse gasses. A strong economical solution.**

The Dutch company Stramproy announces the first commercial delivery of “CoolCoal”™, a renewable, cost effective, coal replacement for power stations demonstrating the effective use of biomass in energy production.

This achievement by Stramproy is the culmination of 13 years of investment, innovation and relentless testing and signals a first step in implementing this unique biomass process technology internationally.

Given the cost and implications of the Kyoto and Copenhagen alternative proposals to reduce CO<sub>2</sub> emissions, Stramproy’s breakthrough is expected to be greeted with enthusiasm and encouragement by all concerned.

**BIOMASS**

Biomass is any biological material derived from living organisms, woody materials and energy efficient crops are examples. As it grows it absorbs CO<sub>2</sub> and as it is converted to energy it releases CO<sub>2</sub> thus it is known as carbon neutral.

For many years biomass has been seen as the fourth major source of energy after coal, oil and natural gas as its constituents are fundamentally the same, carbon. The real difference between biomass and fossil fuels is timescale. Fossil fuels have taken millions of years to form.

The problem has been to find considerably faster, efficient and safe commercial processes to convert biomass to energy. This is what Stramproy has accomplished.

Stramproy takes biomass as input and after its complex processing, including torrefacation, produces, CoolCoal™, which has twice the calorific value, half the volume of other biomass fuels and can be used immediately by coal fired power stations as a direct replacement for coal without any major change.

**CO<sub>2</sub> Savings**

Energy generated by CoolCoal™ is carbon neutral. Therefore, CO<sub>2</sub> emissions from the replaced, unused, coal is saved and does not contribute to the effects of increased greenhouse gasses.

Some 7 billion tons of coal are used annually in energy production worldwide generating what is believed to be at least 17 billion tons of CO<sub>2</sub>.

One per cent reduction in the use of coal would amount to some 170 million tons of CO<sub>2</sub> or 3 times the total CO<sub>2</sub> generation of The Netherlands.

## THE PROCESS

Woody biomass is dried, torrefied at approximately 300°Celsius and, if required, Pelletized i.e. compacted in the unique Stramproy developed process. Stramproy's end product is CoolCoal™

## THE TECHNOLOGY

Use of Stramproy's technology worldwide will be an Industrial Revolution in alternative energy sources.

The technology has been developed in The Netherlands and will be delivered from The Netherlands around the world. Initial demands for more than 40 installations are in process. Discussions have started with suppliers and partners for the roll-out. The production of the plants will provide hundreds of jobs in the coming years and it is the intention to retain the bulk of production in The Netherlands.

CoolCoal™ can replace a large portion of coal if not all. When various grades of biomass are used, there will be fewer dependencies on green power subsidies. Converting the ever growing biomass production into energy is a main goal.

## PRESENT STATUS

First commercial quantities of CoolCoal™ were produced on 29th July 2010.

Essent is the first to buy the CoolCoal™ for its power station in Geertruidenberg and has started to receive first shipments.

Stramproy's current plant in Steenwijk has a capacity to produce 45,000 tons of "Cool Coal"™ per year and work has started to double this to 90.000 tons by spring 2011.

Actions are already in hand to export the technology through licensed franchising to the many interested parties intending on developing a more green and sustainable planet.

## FOUNDERS

Mr. Geert Timmermans PhD in Process and Mechanical Engineering and Mr. IJsbrand Galema MBA, are thrilled by the successful implementation of their developed Torrefaction Process Technology.

Mr. Geert Timmermans (1968). Managing Director of Stramproy Green Investments and Technical Director of Stramproy Green Technology. Graduated from the University of Leuven (Belgium) with a degree in both Electro technical/ Mechanical Engineering and Environmental Technology. Over 20 years of experience in engineering/turn-key projects within the fields of waste management, minerals and energy. Since 2003 Director of the Stramproy Group. The driving force behind the development of our torrefaction process technology.

Mr. IJsbrand Galema, (1960). Managing Director Stramproy Green Technology. Studied Business Administration in Leeuwarden, at INSEAD in Fontainebleau and at IMD in Lausanne. Over 25 years experience in project-driven organizations, of which 20 years at end-responsible level. At Stramproy Green responsible for all general management and focused on legal and financing activities.

Jointly, Messrs. Timmermans and Galema have taken responsibility in commercializing the Technology.

## OUR PARTNERS

**Amstellease** for financing the Cogen and the second Torrefaction installation.

**Bowie** for supplying the Biomass for the Cogen and the first Torrefaction installation. Bowie has an important position in the market of wood waste recycling in the Netherlands and has over 100 trucks spread over 15 locations.

**Broad Communications** spread the news of the introduction of Stramproy's Cool Coal. With over 25 years of experience, Broad Communications is a small, dedicated and creative marketing communication company located in Harderwijk, The Netherlands.

**Mazars Berenschot Corporate Finance (MBCF)** was engaged to leverage this world wide opportunity and structure the financing for the project and find partners for the Technology. Mazars Berenschot Corporate Finance is specialized in valuations, financing and structuring share transactions for the renewable energy sector. MBCF is part of the Mazars and Berenschot network in The Netherlands with more than 1,500 employees and internationally of the Corporate Finance International (CFI) network.

**Dommerholt Lawyers** in Zwolle supports Stramproy with permits, Legal affairs and contracts. Dommerholt is located in the The Netherlands with over 50 specialized Lawyers.

**NV Rendo Holding** for providing the infrastructure in Steenwijk.

**Essent** for buying the Cool Coal" ®. RWE/Essent is one of the world's leading energy companies, with its head office in Essen, Germany. In 2008 about 63,500 employees worldwide realized a turnover of EUR 42 billion.

**Stramproy Contracting B.V.** : an engineering, project management and contracting party in Limburg provided engineering support with the design of the Torrefaction process and the infrastructure, as well as supplying various components of the plant in Steenwijk.

In 1998, Stramproy worked with the University of Eindhoven to test theoretical Torrefaction processes on a laboratory scale. Early 2001 the first batch drive Torrefaction installation was developed and tested. Based on the positive results it was decided to build a new continuous process Torrefaction test installation with many other improvements.

With the financial aid of government subsidies through Senter Novem (Agentschap.nl) the new pilot installation was built in 2004. It tested various woody Biomass streams such as: grass, straw, Wisconsin, A-wood, B-Wood, EFB etc...

Since it has invested in excess of 15 M euro prior to building the first industrial size Torrefaction factory.

Stramproy Contracting is specialized in designing and delivering turn key projects for environmental solutions.

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