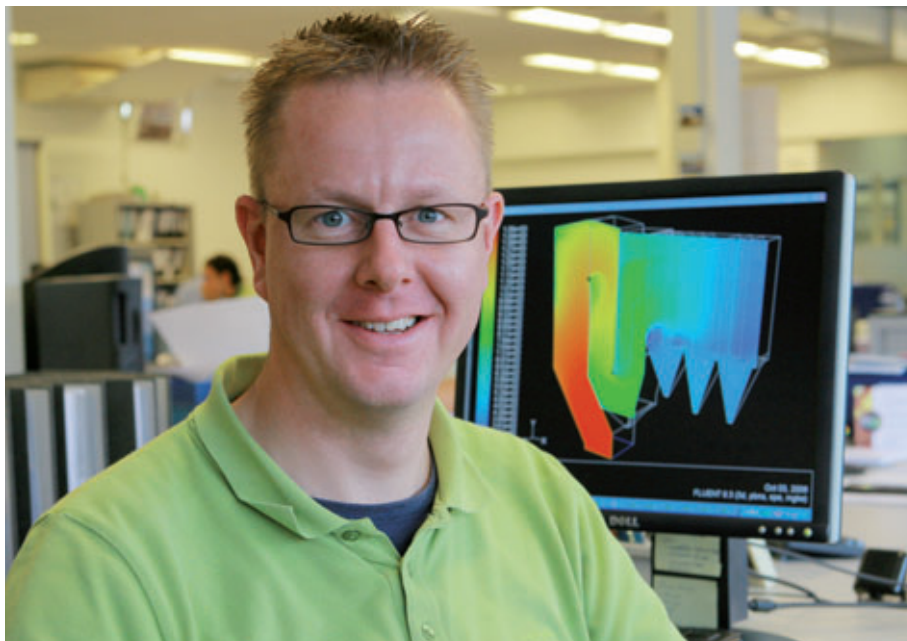
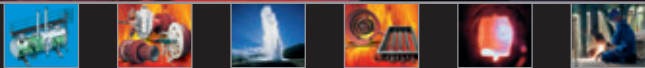


STORK®

Thermatics

>>>>>>> 002 October 2006



An enormous leap forward

10 - 60 milligram NOx-emissions now feasible!

Dr Marco Derksen works at Stork Thermeq as Senior Combustion Engineer. His extensive knowledge of burners and CFD analyses has resulted in splendid results so far, including the development of a burner that creates the possibility of 10 to 60 milligram NOx emissions.

You have developed a revolutionary burner ...

Marco: "That's right. It is a completely new burner, although we drew heavily on our many years of experience as a supplier of Low NOx burners. This is a completely new concept with which we are very pleased. It features even lower emissions, is easier to regulate and is cheaper to install than previous models. We designed it to meet the strictest standards currently

in force, whereby we achieve the absolute minimum. As a result, we can burn gas with NOx emissions of as little as 10 milligrams without CO formation at 1% O2."

That sounds fantastic; do you have high expectations for it?

"In a word: yes! We can achieve much lower emissions in existing situations without the need for the variety of gimmicks that the competition use. We are particularly targeting existing installations. Our competitors can achieve the low emissions too, but not with the configuration with which we are achieving them."

You seem very confident.

"The new burner will be available in February/March 2007. I'll say this: if you don't believe it, just come and take a look. Seeing is believing!"

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Stork Thermeq successful in Qatar

Stork Thermeq has reinforced its position as worldwide leader in the field of deaerating technology. On August 31st we received an order from Shell Global Solutions to supply eight deaerators for the Pearl Gas To Liquid (GTL) project in Qatar. This prestigious project, in which Shell is investing 6 to 7 billion dollars, will convert gas into sulphur-free diesel. Covering 230 hectares, the plant will be the largest in the world.

Stork Thermeq was awarded the order because of its years of experience in the field of deaerating technology and its proven reliability, which is essential in power plants and refineries. In addition to designing the equipment, Stork Thermeq will also be responsible for the entire manufacture of the deaerators in Hengelo, the Netherlands.



Thermatics

Expansion of Stork HRSG Duct Burners Systems

Stork Thermeq receives orders from Doosan Heavy Industries & Construction

Where will we obtain our energy from in the future

High oil prices and the rise of new economies with substantial energy requirements raise a lot of questions.

HoSt and Stork Thermeq develop biomass boiler with 100% energy utilisation!

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>>> An enormous leap forward.

Let's talk about CFD analyses. What does your extensive knowledge of this field mean for Stork Thermeq?

"It helps give a clearer insight. You need to look at them knowledgeably. Anyone can press a button, but you need experience to be able to interpret and apply them. The interpretation is very important."

How does this benefit our customers?

"It gives greater certainty and it is an extra means of verification. We are better able to determine whether everything is working the way we want it to and whether adjustments need to be made, and we also use it for Research & Development. We find that customers are extremely pleased, because they now also have an interaction with the supplier, which they do not have if they use CFD bureaus. It also means that no information goes outside the company. Understandably, customers prefer to avoid that."

So it offers the greatest possible certainty?

"Precisely. CFD is a tool rather than an end in itself. If you use it to persuade a customer, then it is an end in itself. But if you use it to achieve your objective, then it is merely a tool. Stork Thermeq uses CFD as a tool. We integrate it into the engineering process. All experiences and findings are brought together in the CFD model. My experience ensures that this leads to the right solution, which is then discussed again with all the people concerned. The result is a proposition which has been thoroughly examined from all possible angles."

You haven't been working at Stork for very long. Are you happy here?

"I am tremendously happy. There is so much involvement and commitment here. That makes working at Stork Thermeq a very pleasant experience. There is a very open structure, which means that you can get things up and running quickly and switch around easily. In addition, I get plenty of the space and freedom to take on wonderful, challenging projects. It's an excellent basis for producing excellent results. The new burner is a good example of that!"

Expansion of Stork HRSG Duct Burners Systems

Stork Thermeq receives orders from Doosan Heavy Industries & Construction

Stork has boosted its supplementary firing systems business by winning two large orders for Doosan, a company with an excellent reputation in the HRSG business. Doosan is the largest supplier of HRSGs, with 30% market share. Some of the HRSGs are supplementary fired, and that is where we come in with our Duct Burner Systems. The first order was for the Siemens (EPC) contract for the huge Al

Taweelah Power & Desalination Facilities in the UAE (3x 180MW). The second was for the GE (EPC) contract for the Hadjret En Nous Power Plant in Algeria (3x 56MW). The orders from Doosan also cover complete supplementary systems, fuel supply systems, burner management systems and all requisite additional equipment, engineering and services. Stork Thermeq are joining Doosan on the road of success in the world of HRSG-based power plant engineering and dedicated equipment supplies.



Breadth of service

Boelie Fokke. Our new Service & Maintenance Director



Boelie Fokke has been with Stork for a long time. The knowledge and experience that he has acquired at Stork Protech, Stork Limburg, Stork Maintenance Management, Stork WorkspHERE and Stork Industry Services mean that he knows

better than anyone what the combined strengths of all the companies within Stork can offer our customers. Boelie says: "In the 1990s we developed a contract with Stork Boilers. Whilst doing that, we realised for the first time that it is the synthesis of practical knowledge above all which offers our customers a huge added value. This is unique to us, and means that we know more than anyone else in the market."

What are your objectives?

"Two things are very important to me: our customers and my staff. We are successful at adding value for our customers, thanks to the enormous pool of knowledge that our staff possess and their great enthusiasm. Our customers can see that. They see that we know how to handle problems, and they see that we combine technical and practical knowledge in order to improve their processes. We manage to reach a successful conclusion time and again in conjunction with our customers. I see the next step as recording this in terms of processes. Our goal is to achieve further growth within the broad Stork approach."

Where will we obtain our energy from in the future



High oil prices and the rise of new economies with substantial energy requirements raise a lot of questions. Can we be sure that this new wealth won't be at the expense of our standard of living? Will there be enough resources left for future generations? Gerhard Muggen, Vice President Marketing & Sales, posed these questions to Prof. Herman Th. Verstappen, formerly professor of physical geography at the ITC (International Institute for Geo-Information Science and Earth Observation) in Enschede, the Netherlands, where his work included research into natural resources. His view of where today's globalising world is headed is set out in his book 'Zwerftocht door een wereld in beweging' (Travels through a world in flux).

How do you see the current situation with regard to energy?

Prof. Verstappen: "We are rapidly consuming the planet in such a way that there will be nothing left for future generations. I predict that the next fifty years will determine whether humanity still has a chance of surviving on Earth. The growing population and increasing wealth are claiming more and more space and resources. "

You seem very pessimistic about the future.

"Everyone talks about growth all the time, but very few people question why we constantly

have to keep growing. I am not a pessimist, but a realist. We are sitting on an ecological and social time bomb. The situation is critical, but history has shown that humanity always overcomes adversity."

But surely there are many new initiatives, such as generating energy from biomass, and the Canadian oil sands?

"This may offer a solution at a local level, but it will not be sufficient on a global scale. We must work towards a sustainable use of the Earth and its resources. We need to strike the right balance between economic development, social justice and responsible management of the environment. I sometimes call this the Fourth Way: the common sense way."

What possibilities do you see for generating energy in the future?


"Personally, I would think of nuclear power plants, but in view of the environmental problems nuclear fusion would be a far better option. Solar energy, generated in space and beamed down to Earth, might offer a solution. These options will require billions of dollars of investment, but they are based on proven principles. Let us hope that those principles can be put into practice. "

Note from the editors:

It appears that we can no longer depend on a single type of energy production by relying solely on oil and gas. This is already apparent from the current high gas and oil prices. The implication for Stork Thermeq is that alongside our specific knowledge and experience in the field of burning conventional fuels, we need to make additional investments in aspects such as biomass expertise and multi-fuel applications so that we can continue to serve you, the customer, well in the future.


Herman Th. Verstappen, Zwerftocht door een wereld in beweging, published by Van Gorcum, ISBN 90 232 4229 7.

Power-Gen Europe 2006



future

Stork Thermeq can look back on a successful exhibition in Cologne. During the entire exhibition our booth was well visited. Not only one could see our in-line duct burner, deaerator sprayers but also our SwirlFlash® demonstration model. Many visitors have experienced the flashing of hot water droplets and were amazed by this phenomenon.



We would like to thank all visitors who came to our booth and made this exhibition successful for Stork Thermeq.

Want to see some pictures of our booth?
Please visit www.thermeq.nl

For the full 100%!

Order highlight 3rd quarter 2006

- Doosan HI&C, South Korea: Supply of 3 x supplementary firing systems for the Hadjret EN Nous Power Plant Project in Algeria.
- Several deaerator licences with end-users for locations all around the world, like: China, France, Russia, Belgium etc.
- Aalborg Engineering A/S, Denmark: Supply of 6 x supplementary firing systems for the Russian Power stations Tereshkovo and Kozhuhovo.
- Host Engineering, The Netherlands: manufacturing of biomass boiler (see right side)
- Doosan HI&C, South Korea: Supply of 3 x supplementary firing systems for the Al-Taweelah New B2 Extension project.
- Technip Yemgas, Yemen: Two deaerators for LNG plant Yemen.
- Bertrans Heatec, Switzerland: supply of low NOx burner.
- Rendac Bergen, The Netherlands: burner retrofit for burning animal fat.
- Waste incinerator Twence, The Netherlands: Tie-ins for heat supply and extension 3rd line and exchange of superheater.
- Electrabel Kallo/Rodehuizen, The Netherlands: Replacement part of superheater.
- Harbin Turbine Co., China: supply of deaerator condensor for Yide project China.
- MATN Company Power Technology Centre, Iran: Engineering study for conversion of power plant to combined heat and power, cooling and district heating plant.

HoSt and Stork Thermeq develop biomass boiler with 100% energy utilisation!

HoSt is a firm of engineers which specialises in energy-related processes and is a leading company in the field of industrial energy conservation and biomass energy systems. Their latest, much talked-about development is the creation of a revolutionary biomass boiler that allows 100% energy utilisation. It will be produced by Stork Thermeq. We discussed it with the proud director of HoSt, Mr H. Klein Teeselink.



What is so special about the boiler?

Mr Klein Teeselink: "At HoSt we strive for an extremely high power yield. This is an important objective, since electricity is becoming ever more expensive in Europe, and sustainable energy, which includes biomass, is playing an ever greater role in the generation of power. Our concept is distinctive in that we use very high pressure levels and special steam conditions combined with comparatively efficient turbines and efficient integration within the whole system to achieve a very high power yield and utilisation of a great deal of heat. It is also very interesting from a cost perspective. A payback period of three years is certainly possible!"

How is it different from current plants?

"Normal (large) plants that burn biomass achieve a power yield of around 30%, with 70% of the energy escaping into the air. We achieve a power yield of 22 to 25%, but utilise all the heat, giving us

yields of 100%. Energy is becoming scarcer all the time. We firmly believe that you need to strive for the maximum (sustainable) energy utilisation."

What is the capacity?

"Our smallest plant is currently the one that we will be building with Stork Thermeq. This generates 1 megawatt of power and 3 megawatts of high-value heat (70-80 degrees) and about 1.5 megawatt (1500 households) of low-value heat (50-60 degrees). Our largest plants will produce 4 megawatts (4000 households) of power."

With rising oil and gas prices, do you think that demand for biomass plants will increase?

"Yes, undoubtedly. There are two important developments affecting this. In the Netherlands, the greenhouse horticulture sector in its present form is getting into serious problems with the current charges. On the other hand, the government is encouraging the use of sustainable energy. But the use of biomass energy is also growing rapidly in other countries, and it will only grow more in future."

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