



Heat
- fulfilling burning desires

JUSTSEN



POSSIBILITIES? SOLUTIONS? **NO PROBLEM!**

Justsen Energiteknik A/S is a highly specialized company. We build advanced incineration plants which utilize the energy in all types of biofuel, in waste sorted at source and in other energy sources. We generate heating from that which would otherwise go to waste. And we do so efficiently!

In operation since 1960, we have continuously developed innovative and enhanced solutions for the benefit of our customers, which so far has resulted in more than 2,500 plants distributed across the world. On the close markets in Europe, but also in North and South America as well as in more distant locations, such as Bhutan.

We always supply customized solutions designed to meet specific customer needs, and we thoroughly analyse every single new project to develop the best possible solution. Justsen has never produced standard solutions, only plants that fulfil specific requirements, and we see opportunities and solutions where others see problems.

This also means that we always look to establish long-term relations with our customers. For us it is important that we grow together, and that we are always available if the plant needs to be expanded or altered to meet new environmental requirements. With Justsen you can always count on fast and efficient assistance from our team in Denmark or through our business partners worldwide.

We have a complete and up-to-date stock of spare parts, and we are almost always able to deliver on a day-to-day basis. Being a family-owned company, today run by the second generation, we have taken the long view and see our customers, whatever their size, as being part of the family.

The result: long and loyal relations that last generations.



TO TURN ON THE HEAT
YOU NEED COOL THINKING



Justsen is far from being the largest company within its field. On the other hand, we are a world leader in terms of heating technology and maximum energy utilisation.

Our knowledge is based on many years of experience and our ability to always think in alternative and innovative ways. It means that we give our engineers considerable elbow room in which to be creative, and we encourage them to think innovatively and apply the latest technological know-how to create even better and more effective energy solutions.

Justsen is therefore always one step ahead, often supplying its customers with plants that are even better than they expected. Customers also get a plant that is designed to meet their specific requirements. This in turn means they receive a plant which lasts longer, requires a minimum of maintenance, and offers a faster return on investment.

However, there is more to choosing a plant from Justsen than attractive financial benefits. There is also a significant environmental advantage, because we employ the very latest know-how in environmental technology. This means minimal emissions of dust, waste substances and hazardous gases, as well as other compounds that impact the global environment. Also in this respect we enjoy a leading position. Our plants comply with all current international standards – and more.

Justsen has built up a level of practical experience from establishing plants all over the world under widely differing climatic and geographical conditions.

Taking the lead puts you under an obligation, but it is always more challenging than following in other people's footsteps.





WORKING LOCALLY AND GLOBALLY

Justsen has its roots in Denmark, and it is from here that we run our operations, locally as well as globally.



We are a global player, whether it concerns an advanced incineration plant for a large or small company, or supplying an entire town with district heating.

We provide heating worldwide, and we collaborate with all sorts of companies, both private and public. To date, this has resulted in more than 2,500 custom-built facilities.

Our customers are just as varied as our plants, and include the well-known and the not-so-well-known. Here are some of them:



-  **Velfac/Velux**
-  **Coca Cola**
-  **Johnson Controls**
-  **Agder Energy**
-  **City of Kibæk, District Heating**
-  **City of Ringe, District Heating**
-  **Krüger**
-  **The Norwegian Defence Department**
-  **IKEA**
-  **Schouw Packing**
-  **The Danish Ministry of Energy and Environment**
-  **Elcatex**
-  **Cargill**
-  **City of Dolny Kubin, District Heating**
-  **City of Nová Dubnica, District Heating**
-  **Felleskjøpet Norway**

1. Nová Dubnica, Slovakia - Datatherm s.r.o.
1 x 2 MW and 2 x 7 MW

2. IKEA, Rumania
2 MW

3. Settermoen Garrison, Norway -
The Norwegian Defence Dept.
4.4 MW

4. Norsk Varne, Norway - Agder Energy
6 MW

5. Cargill, Honduras - L. Solé
4.2 MW

6. Norsk Varne, Norway - Agder Energy
Cooling System 3 MW



7. Velfac/Velux, Denmark
2 x 1.1 MW

8. Lem District Heating, Denmark
5 MW

9. Kibæk District Heating, Denmark
13 MW

10. Coca Cola, Ireland
4.2 MW

11. Kibæk District Heating, Denmark
Scada System

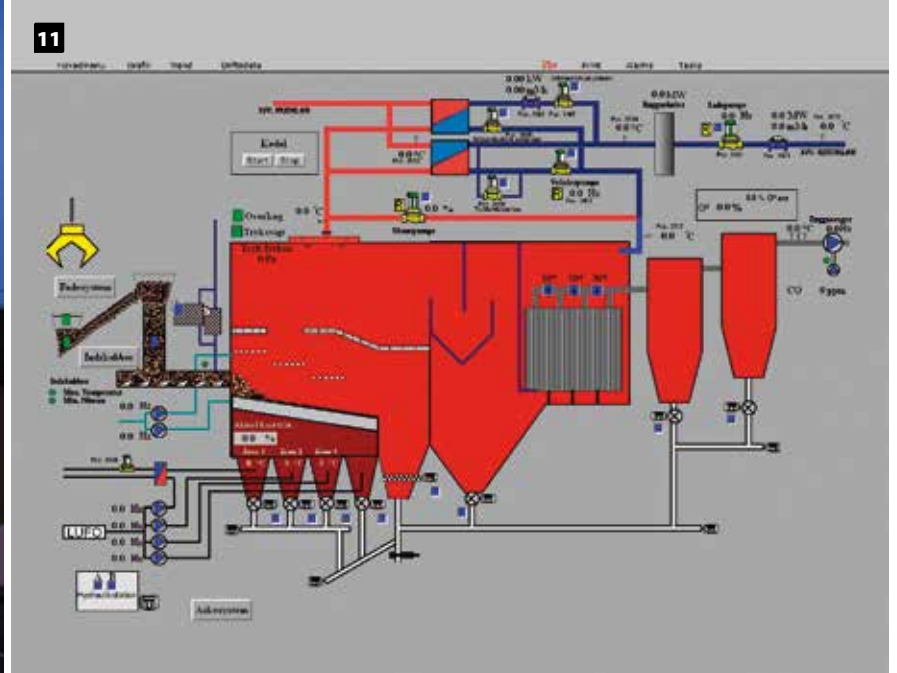
12. Elcatex, Honduras - L. Solé
2 x 10 MW

13. Vatra Dornei, Romania - The Danish
Ministry of Energy and Environment
2 x 6 MW and 1 x 8 MW

14. Ringe District Heating, Denmark
5 MW

15. Nová Dubnica, Slovakia - Datatherm s.r.o.
Turnkey Unit 2 MW





PLANTS FOR BOTH WET AND DRY FUELS WATER-COOLED GRATE SYSTEMS

JUSTSEN REVOLUTIONIZED BIOFUEL PLANTS BY DEVELOPING THE WATER-COOLED GRATE SYSTEM.

Water cooling makes it possible to use widely differing biofuels – wet or dry – in the same oven.

Thus, you can always use the fuel type that is available – or whatever is most economical in the current situation.

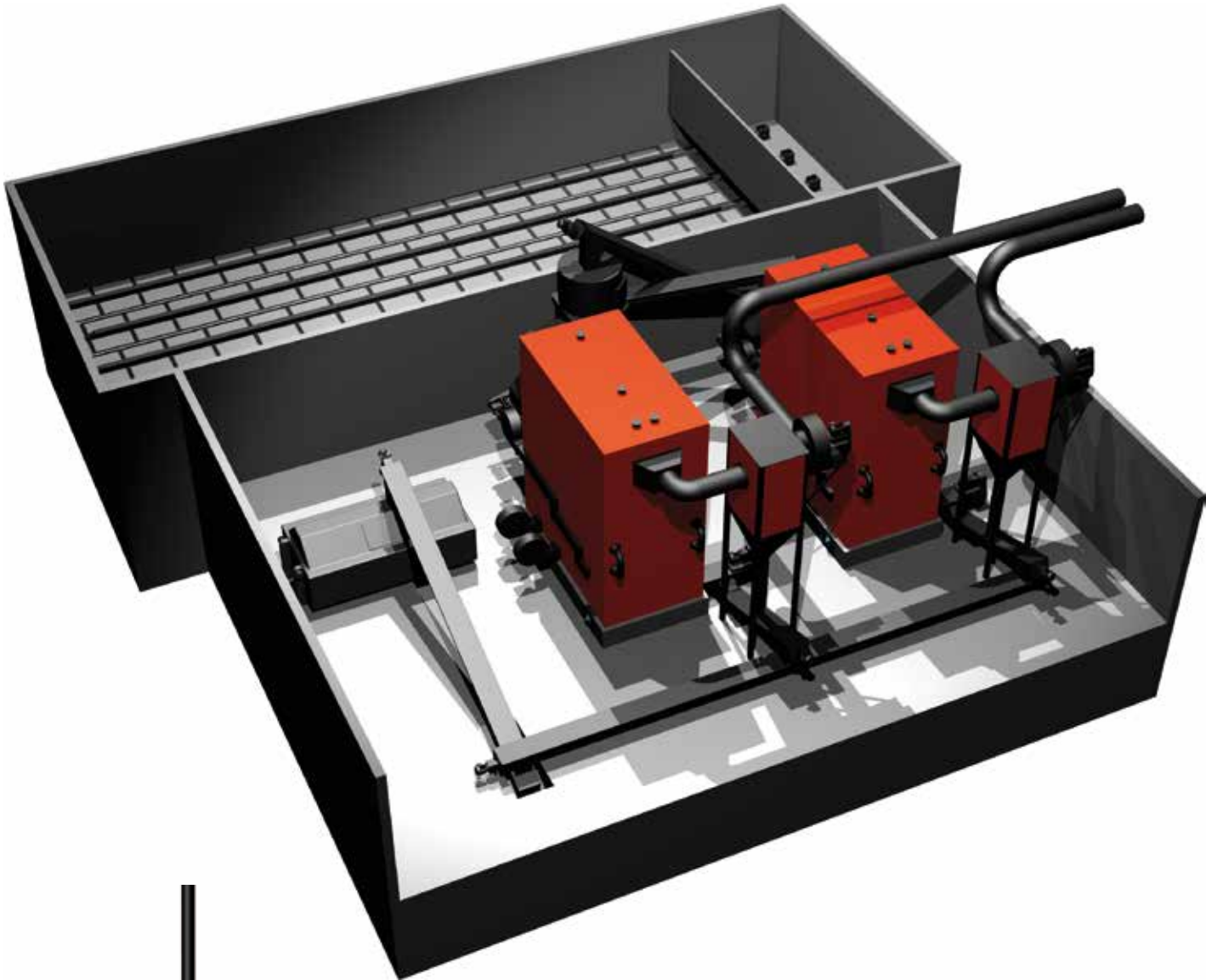
Water cooling allows you to determine the oven temperature to match the fuel type being used. In other words, you can raise the oven temperature when firing with wet fuel – and lower it when the fuel is dry.

This has obvious advantages: It is not necessary to differentiate between fuel types, it ensures the least possible impact on the environment, and it eliminates slag formation. And, of course, you can fully utilize the heat from the cooling water.

Plants with water-cooled grate systems are flexible, efficient and extremely reliable.







THE ELEMENTS ARE THE SAME, BUT THEY ARE
COMBINED IN COMPLETELY DIFFERENT WAYS

- THEREFORE NO TWO PLANTS ARE EVER THE SAME

**EVERY JUSTSEN PLANT IS UNIQUE.
NO TWO PLANTS ARE THE SAME.**

The individual elements might well be identical, but they are assembled individually so that each plant matches the specific requirements of the customer in the best possible way.

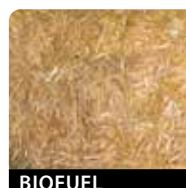
And being able to combine individual elements into a highly functional unit is precisely what makes Justsen unique in a competitive world.

We never build standard plants and then trim them to size. On the contrary, we hand build

every single unit to perfectly match requirements from the outset. No more, no less.

The initial investment may be slightly higher, but it pays in the long run. We can cite plenty of examples to support this. And just as many satisfied and loyal customers.

Feel free to ask them.



LOOKING TO A WARM FUTURE

TOGETHER WE WILL MAKE IT

CONTINUOUS DEVELOPMENT IS A FEATURE OF THE MODERN WORLD. THIS DEVELOPMENT DEMANDS MORE AND MORE ENERGY AND, NOT LEAST, BETTER UTILISATION OF THE AVAILABLE RESOURCES.

Justsen is right at the forefront of these developments, and we have long been prepared for the future. With the merger in 2005 with Argusfyr Energiteknik A/S. With our own development department and production. With solid business partners around the world. And with a service team that guarantees our customers a superior level of operating reliability.

Our service network extends across the globe, and an experienced supervisor with the necessary parts is never far away. All our plants are linked to the Internet, enabling us to monitor and troubleshoot faults – whatever the plant's location.

As can you! Regardless of your location, you can always log on to the Internet to check and monitor your boiler system. Moreover, Justsen can offer you a service agreement which

includes no less than a five-year warranty. This is how we do things at Justsen. We have been using state-of-the-art technology for years, but we still uphold traditional values such as trust and loyalty.

With Justsen, you can expect to have the same engineer assigned to your project from when the contract is signed until the plant is fully operational, while the same supervisor follows the project throughout construction – and solves any problems that may arise. Our customers can therefore count on being able to contact the people they know rather than numerous intermediaries.

Justsen is a global player. And we are always available.

That's how it's always been. And that's the way we want it to be.



*Justsen has supplied a number of district heating plants for customers around the world.
City of Nová Dubnica, Slovakia.*



WORKING WORLDWIDE

Justsen has always been a global player, and over the years we have initiated promising partnerships in many parts of the world.

We have a sister company in Slovakia, Justsen Central Europe, in the town of Zilina, where we have brought together production, sales, design and service at our 5,000-square-metre factory – just as in Denmark.

In addition, we have partnerships with solid companies in Norway, Sweden and Finland, Estonia, Latvia and Lithuania, Russia, Germany, Poland, Slovakia, the Czech Republic, Romania, Hungary and Bulgaria, the Netherlands, the UK and Ireland and South and Central America as well as Canada.

And our network is growing all the time.



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