The Centenary Sculpture

On the occasion of the Centenary Festival, the Viessmann Centenary Sculpture by artist Daniel Wolff was unveiled in front of the main entrance to company headquarters in Allendorf.

Before work on the sculpture began, employees were asked to collect and hand in everyday items made of orange plastic. The cut through the body of the pedestal transformed these everyday items buried in concrete into abstract lines and symbols, enabling the observer to see a new dimension to the objects. The aluminum casting on the pedestal represents the formative power that arises from the interplay of heat and cold. Hot metal was allowed to solidify in a cold medium – an explosive technique which, however, was mitigated by binding the water in granulated gel pellets. The pellets were doused with nearly two metric tons of liquid aluminum heated to 900 degrees Celsius, which produced an amorphous form that was finally given a coat of Vitorange after elaborate milling operations. You will find a close-up of the aluminum casting on the inside back cover.

Daniel Wolff, in Hanover in 1980, studied art in Kassel and Braunschweig. His exhibition, “Verlorene Form” (“Lost Form”) was last shown at Kunstverein Hamburg.
EDITORIAL
02 Together into a new century

GUEST ARTICLE
04 Rüdiger von Fritsch: Strengthening SMEs

ENERGY SYSTEMS OF THE FUTURE
05

GUEST ARTICLE
06 Integrated energy solutions
08 Viessmann presents Energy Community, power flat rate, and electricity storage system at Intersolar Europe
11 First forum covering the topic of innovations

COMPANY
12 Production plant for industrial boilers inaugurated in Russia
14 Large investments in Berlin plant
15 New branch office in Hamburg with CO2-neutral heat and power supply
16 100 years of Viessmann: 15,000 people celebrated together at three locations
18 Think tank and high-tech laboratory – research and development center in operation for half a year
20 Stand at Expo 2017 world exhibition in Kazakhstan

PRODUCTS
25 Photovoltaics and electricity storage systems

PRACTICAL APPLICATIONS
28 Perfect refrigeration solution for Almhof Schneider

SPORT
31 Olympic Games are the high point of an eagerly awaited season

VIESSMANN SELECTION
32 Actively enjoy the coming days of autumn
Together into a new century

Events during the anniversary year are marked by a get-up-and-go spirit

For us, 2017 is entirely dominated by our company’s centenary anniversary. However, we see it less as an occasion to look back on past success, but more as a time to turn our eyes to the future. Accordingly, the events in this anniversary year are imbued with a distinct get-up-and-go spirit. This not only applies to employees, but also to our trade partners.

ISH – successful start into the anniversary year
This was particularly evident at ISH Energy in Frankfurt last March. The Viessmann stand not only attracted a record number of visitors, but also enjoyed great popularity with every single one of the guests. Again and again, it was confirmed that the Viessmann presentation was showing the way to the future and that the trade partners are ready to go along.

The mood was outstanding and continued during our ISH roadshow: the Viessmann truck with the "mobile trade fair stand” stopped at many of our sales offices. Anyone unable to get inspiration by visiting the leading international trade fair in person was able to find more than just dry reporting at the roadshow.

New Viessmann Innovation Center: Chancellor Merkel visited Allendorf
This spirit was also noticeable at the inauguration of the Innovation Center. Fifty million Euros were invested in our new nucleus for innovation. In the presence of Chancellor Dr. Angela Merkel and many long-term trade partners, it was officially put into service on April 12.

The Chancellor actively contributed to the family-like atmosphere of the event. She intentionally sought to interact with those present and shook many hands during her tour. She especially mentioned the good mood at the company in her speech: “Stay this cheerful and committed to your cause. I wish you all the best for your start into the next hundred years.”

Inauguration of the plant in Lipetsk, Russia
In June followed the inauguration of our new production plant for industrial boilers in Lipetsk, Russia. Building this plant is a milestone for our commitment in the Russian heating market. The German Ambassador to Russia, Rüdiger von Fritsch, held a very motivating speech and I am glad he is contributing the guest article to this issue of “aktuell”.

Viessmann at Expo 2017
Another 2,600 kilometers further east, the world exhibition Expo 2017 opened in Astana, the capital of Kazakhstan, on June 10. In the EBPA Pavilion (Energy Best Practices Area), exemplary exhibits related to the topic of renewable and alternative energies were on display. From the more than 130 applications from 25 countries, an international jury chose the best, including several especially innovative Viessmann developments.

In July, we were able to welcome the German Federal President at our Expo stand. Frank-Walter Steinmeier traveled at the head of a business delegation to Astana in order to obtain information about the world exhibition on Germany’s National Day, and about German exhibitors. We showed him our technologies of the future, such as fuel cell, power-to-gas, or ice storage system – and were also able to explain the potentials of these technologies for the energy transition to a very interested German President.

Centenary festival at three of the company’s locations
The emotional high point of the anniversary was our employee festival in August. More than 15,000 people took part enthusiastically at the company’s locations in Allendorf, Berlin, and Hof. It was by far the biggest family gathering we at Viessmann have ever had. This day made one thing perfectly clear: Viessmann employees are a big family.

Thank-you to the employees
Following the motto “Discover something new, shape it, and set it in motion”, the festival also stood for the start into a new century. It was a thank-you to the employees and their families. Sports, acrobatics, music, a quiz, and much more – one attraction followed another on the nine stages and at the large number of stands.

The idea was to broaden horizons and to develop a sense of unity coupled with a positive mood, and then to take all this back with us into our everyday lives. And not least, particular importance was placed everywhere on providing opportunities to join in.

This also applied to the anniversary sculpture unveiled on the day of the festival, which many employees had
participated in creating. You can find out how on the inside front cover of this issue of “aktuell”.

**“HereViGo” campaign: 120,000 euros in donations**

Thanks to the great commitment of many employees, there was another heartwarming announcement at the centenary festival: since the beginning of the year, a large number of employees had been planning and successfully implementing a large number of personal projects, either individually or in teams, as part of the “HereViGo” campaign. For each goal that was reached, the company made 1,000 euros available for a good cause. In this way, the impressive sum of 120,000 euros was collected, which are now being donated to UNICEF, terre des hommes, and the Hans Viessmann School in Frankenberg (Eder).

At the end of the “century moment”, the word was once again “join in!” Employees at all three locations, as well as our “Sounds of Viessmann” choir, took part in singing a song composed and professionally rehearsed especially for the anniversary. An unforgettable goose-flesh experience.

**Mutual responsibility**

This year, we are looking back at our company’s hundred-year success story. At the same time, we are looking forward with great confidence to our next hundred years. This is the result of the commitment shown by all members of the big Viessmann corporate family and its trade partners – spanning generations and continents.

However, being a family also entails great mutual responsibility – and that is needed more than ever nowadays. A responsibility that we also and especially feel toward you, our esteemed trade partners.

Take up the challenges together with us and let us develop the abilities that the future demands. Our declared goal is to continue the tradition of our tried and true trade partners and to unite our strengths in order to be successful together. Step with us on the path into the new century and take advantage of the opportunities. We will still be your reliable partner in the digital world.

Prof. Dr. Martin Viessmann
Strengthening small and medium-sized enterprises

by Rüdiger von Fritsch

Small and medium-sized enterprises (SMEs) are the backbone of the German economy. We need an economic framework in which SMEs can prosper. Then we will generate the growth that produces jobs. This is what Dieter Hundt once said, longstanding President of the Confederation of German Employers’ Associations (Bundesvereinigung der Deutschen Arbeitgeberverbände – BDA). What was true back then, is still true today. SMEs are the success factor in the German economy: more than 99 percent of all companies in Germany are SMEs. They generate more than half of the added value, account for nearly 60 percent of all jobs, and provide around 82 percent of in-company traineeships.

SMEs are the mainspring of a dynamic economic development. They are indispensable for growth, employment, and innovation. Reliable, long-term relationships with customers, suppliers, and other partners play a decisive part in the success of companies. Germany wins recognition around the world for this strength, especially in Russia.

SMEs are also the backbone of Russo-German economic ties – 90 percent of the German companies doing business in the Russian Federation are SMEs or family-run businesses.

I am therefore very glad to see another German company – Viessmann – deciding to open up a production site in the Russian Federation and make even more comprehensive use of this great market. I wish the company and its employees every success and all the best!

The official plant opening last June is an example of the many positive reports related to the development of our mutual economic relations. Everything is now pointing to renewed growth following some difficult years for business – trade between Germany and Russia is likely to grow in the double digits during the current year. Considering the Russian economy’s need for modernization, not least in the promising field of energy efficiency, German companies have the best chances of turning this development to their own benefit and further strengthen it.
Viessmann sponsoring the Premier League club Huddersfield Town in the 2017–18 season

Viessmann is expanding its existing partnership with Huddersfield Town, a soccer (football) club in the English Premier League. The company is supporting this up-and-coming team, which just made it into the country’s top-level league. The club began the 2017–18 season with great success and led the league for a time on the first day of play.

Viessmann is not only a team sponsor, but also the exclusive partner of the so-called "Club Town," a new area with 64 heated seats right behind the players’ benches. The Viessmann logo appears on the seats and on the scoreboards at the sides, as well as in the stadium newspaper, the players’ lists, and social networks.

“We are proud to support a club that has managed to move up into the top level of English football after an absence of 45 years,” says Graham Russell, Managing Director of Viessmann UK. “What started as a minor partnership quickly began to attract attention. We are therefore delighted to further expand our presence in the John Smith’s Stadium and with the fans,” Russell continued. This is particularly fitting, he said, because Huddersfield Town has the largest number of German staff of any Premier League team, including many players, as well as the head coach and head assistant coach. The club’s commercial director, Sean Jarvis, added that “everyone in the club is glad to have found in Viessmann a global partner for the 2017–18 season. I think this partnership will be of great benefit to both sides.”

Within the scope of this cooperation, there was also an exhibition game between German and English heating system installers in April that ended with a 6:1 victory for Germany. More information on the collaboration between Viessmann and Huddersfield can be found on their websites

- www.viessmann.co.uk
- www.viessmann.de

as well as social networks.

Online version of “aktuell” available starting immediately

“aktuell” goes digital: This is the first issue of our Viessmann magazine to be available in an online version, as well.

**Picture galleries, videos, surveys**

It offers additional advantages over the print version: many articles are supplemented by picture galleries and videos, and users can take part in surveys – such as how they like the new online offerings.

**Convenient search function**

When the website was conceived, the focus was on creating a clear, well-arranged structure and enabling interesting content to be found quickly. When they read it, users can either follow the structure of the respective issue or search for specific topics independently of the issues. In addition to the articles displayed, readers are presented with a number of suggestions for similar contributions.

The digital „aktuell“ is available in German only at www.viessmann.de/aktuell. An English version is in the planning stage.
Energy solutions are getting smart and integrated

Reliable, efficient systems for generating your own supply of electric power and heat

In order to become independent of supply companies and to increase the consumption of self-generated electric power, the aim is to achieve the highest degree of energy efficiency at the lowest cost: topics that are not only filling media headlines, but also enlivening current discussions in those industries that generate revenues with their business models in the energy sector.

Here it is primarily digitalization, that driver of innovation, that is energizing not only the requirements of end customers, but also the solutions on offer from industry and the processing trades. Nothing seems to be impossible, ever more intelligent technology is simplifying communication between people and revolutionizing visualization and control – whether in a smart home or in digital production, in which even machines share their data. Thus Deutsche Telekom is expecting the new 5G wireless standard to be established in a few years and link around fifty billion things all over the world.

For us humans, access to digital systems is changing. While yesterday swipe technology was revolutionizing how we use our smartphones, making it easy to use, now we are on our way to gesture control and especially voice control as the interface to our car, house, or grocer.

This development is linked to dramatic structural change in nearly all industries. Google searches are a good way to measure this: if we enter “smart home,” we get 129 million results in less than a second. And “Industry 4.0” gives us more than nineteen million hits on the screen.

Digitalization offers huge opportunities in the form of new business models, technologies, and products. The next step now is to develop solutions so that these opportunities can
be seized. Significant demands are coming from sectors close to end consumers – the key word here is integrated energy: energy generation and consumption need to be controlled as intelligently as possible in order to achieve the goals of the highest level of efficiency at the lowest cost for the areas of heating, electric power, and mobility. To this end, the apartment, house, or even entire districts can be linked using smart energy management.

Focusing on electricity
With its new PV+E Systems business unit, Viessmann is expanding its commitment in the area of photovoltaics and electric systems. The company is hereby not only picking up on the trend toward electricity as an energy source, but also taking up regulatory changes brought about by political targets and legal frameworks.

For instance, the European Energy Performance of Buildings Directive (EPBD) prescribes a nearly zero energy standard for new buildings built in 2020 or later. In Germany, the Brussels directive is being implemented by tightening the German Energy Saving Regulation (Energieeinsparverordnung – EnEV).

Energy management for heat pumps, PV, and electricity storage
For instance, Viessmann is offering system solutions comprising efficient air/water heat pumps, a photovoltaic system, and an electricity storage system. The series of split-design or mono-block air/water heat pumps launched this year is setting standards thanks to an especially low level of operating noise and its sophisticated design. For example, they achieve a noise pressure level of 35 dB(A) at a distance of a mere three meters.

In this system solution, the heat pump runs on power from the photovoltaic system. It multiplies a single kilowatt-hour of electricity from the solar panels into four times as much energy for home heating and DHW generation. The surplus electricity from the photovoltaic system is kept in the electricity storage system. So you can run your heat pump, lighting, and other electric appliances in the evening and at night using the electric power generated by your own system during the day. Power from the grid is then only needed to cover demand peaks. This substantially reduces expenditures for electric power from the public grid, as well as for home heating and DHW generation.

Finally, thanks to the energy management system behind this, a transparent, easy-to-understand presentation of energy flows, consumption, and costs...
is achieved, which also conserves resources.

**Digitalization for more service**

Connecting various systems is the basic requirement for new services that are available both to the end customer as well as to specialist installers. Today, all devices in Viessmann’s 200 and 300 series can be connected to the Internet by means of simply plug and play installation. The homeowner is thus put in a position to set the temperatures or individual heating times with ease on a smartphone.

What is more, after receiving authorization from the homeowner, the specialist installer can see the operating parameters of the heating system online to identify early on when servicing is needed and be able to make plans. It is also possible to change the operating parameters directly.

**Efficiency system with fuel cell heating, PV, and electricity storage**

For many homeowners, there is another reason to put their trust in a networked system. More than 90 percent autonomy from the public power grid can be achieved if a combination of an innovative fuel cell heating device and photovoltaic system with a Viessmann electricity storage system is installed. The fuel cell heating device generates electricity that can be used in the home. At the same time, the heat this generates is used for heating or DHW generation. If more heat is needed, the gas condensing boiler integrated into the units switches on automatically. Photovoltaic panels produce outputs of up to 300 Wp per panel. This means that about twenty square meters of photovoltaic panels is enough to cover the yearly power requirement of an average household. The electricity storage system stockpiles any surplus electric power from the fuel cell heating device or the photovoltaic system to cover later peaks in consumption. This maximizes the consumption of self-generated electricity and minimizes the need to purchase power from the grid. When the electricity storage system is fully charged, any additional self-generated power can either be used for charging an electric car or fed into the public grid as surplus power in return for remuneration.
Reliable, efficient energy systems for generating your own electric power and heat, storage, and intelligent consumption from a single source was presented by Viessmann at Intersolar Europe in Munich.

The 200 m² stand featured several system solutions regulated by a central energy management control. These perfectly coordinated components, such as the new Viessmann electricity storage system, are supplemented by energy services. The Viessmann Energy Community celebrated its premiere in Munich with its electric power flat rate for customers.

Key advantages for customers
The Energy Community offers your customers three key advantages:

- 100 percent of self-generated electric power can be used with a private power account,
- 100 percent independence by procuring electric power from the Community and
- 100 percent green electricity and green heating – enabling them to enjoy power that comes solely from renewable sources.

And this is how the Community works: it networks regenerative energy generators of different sizes and takes over the intelligent control of power generation and consumption. Hence the Viessmann Energy Community is no virtual construct, but rather a way to use smart technologies to create an energy management system that guarantees advantages and independence to all its members.

Electricity storage with a long lifespan and a high number of cycles
The most important new product at Intersolar was the Viessmann electricity storage system with Li-ion cells, which offers a long lifespan of up to twenty years and a high number of cycles at a nominal capacity of up to 12.6 kWh. This modular electricity storage system is the ideal supplement to photovoltaic systems for stockpiling electricity in order to use it later to run heat pumps, for example. However, it can also be combined with power-generating fuel cell heating systems.

ThermProtect: automatic overheat protection for collectors
In addition, a “switching collector” was displayed. This Viessmann innovation is the first of its kind in the world. Thanks to its “Therm Protect” coating, it reliably protects flat-plate and tube collectors from overheating. What is more, the vacuum tube collectors on display can be installed in any position – even lying flat.
Energy Systems of the Future

Doing things differently: innovations for the challenge of the century

Forum offered examples of best practice and workshops for trade partners

The fundamental change on the energy markets and the ongoing trend toward integrated, electricity-based heating and ventilation systems count as some of the most important issues the heating technology industry will have to deal with in the future. In order to be able to successfully manage the energy transition and digitalization, innovative technical solutions and services will be required. The roughly 200 participants at the first Viessmann Innovation Forum learned how these might look.

In his welcoming address, CEO Joachim Janssen called the challenges of the energy transition and digitalization the “challenge of the century”. He emphasized that the political goal of making existing buildings carbon-neutral by 2050 can only be reached by consolidating the components, that is, the sectors of heat, electricity, and mobility. In practice, he said, this will mean connecting the components, such as the photovoltaic system, heat pump, or ventilation. Janssen said that this could not be accomplished without digitalization. “We want to give you, our trade partners, support in coping with this change and take advantage of new opportunities with you.”

Opportunities and perspectives of digital change

Maximilian Viessmann pointed out specific opportunities pertaining to the digital transformation. He illustrated how successful start-ups consistently make use of these opportunities and what many start-ups of this kind have in common: they do without property assets, are financed by venture capital, and develop new, platform-oriented business models by making use of scalable technologies that are already available. Maximilian Viessmann enumerated five drivers of this development: higher bandwidths and thus easy access to the Internet, mobile devices with greater computing power, cloud-based services, problem-free evaluation of large amounts of data, and the use of artificial intelligence. At the end of the day, he said, this will lead to a new form of innovation: instead of the present incremental development, start-ups will be based primarily on disruptive innovation – shifting the focus from “doing things better” to “doing things differently.”

Political issues

After the keynote by Maximilian Viessmann, the forum turned to political issues. Andrea Filz, an official at the German Federal Ministry of the Environment, provided an overview of the current state of affairs regarding the new Building Energy Law and also discussed its practical implications. Markus Kaufmann from the state-owned bank KfW Group (German development bank), then described the possibilities for getting subsidies for innovative heating technology.

Developments in heating technology

Further focal points at the event were the development of heating technology, examples of best practice, and workshops on topics as “Electricity and Heat”, “Innovations in Air/Water Heat Pumps”, “ViCare Smart Climate”, or “Digital Aids for Customer Acquisition and Job Processing”.

“Doing things differently”: in his keynote, Maximilian Viessmann illustrated the challenges and opportunities of digitalization.
Viessmann has inaugurated a new production plant for industrial boilers in Lipetsk, around 460 kilometers south of Moscow in Russia. A number of high-ranking representatives of politics and business attended the event. Prof. Viessmann told more than 150 guests: “Construction of this plant is a milestone in Viessmann’s commitment to the Russian heating market. It symbolizes, so to speak, the great importance we attach to the country not only as a business market, but also as a production location.” He pointed out that Viessmann has been doing business on the Russian market for nearly 20 years and selling its products at six sales offices placed throughout the country.

**Construction and completion undercut the ambitious time schedule**

The decision to serve the Russian market with industrial boilers produced in the country was made in the summer of 2015. By November, construction had already started, and once the operating license was obtained in January of the current year, the first boilers were produced and ready to sell by March. Hence the ambitious time schedule was not only met, but significantly undercut – this was aided by the unbureaucratic cooperation of the special economic zone of Lipetsk, headed by Director General Ivan Koshelev.

**Strong demand and broad customer mix**

The company invested a total of around 22 million Euros, thereby creating up to 140 jobs in Lipetsk. The jobs grows along with the increase in production. More than 50 employees are already at work in the plant. The primary buyers of industrial boilers are municipal authorities and state...
Viessmann invested around 22 million Euros in the new plant, thereby creating up to 140 new jobs in Lipetsk. The plant produces Vitomax hot water boilers with outputs of up to seven megawatt.

institutions, as well as operators of local and district heating networks. These also include industrial customers from the oil and gas industry, for instance, as well as producers of chemicals and pharmaceuticals, or even food producers. The first products the plant intends to manufacture are existing designs of Vitomax hot water boilers with an output of up to seven MW already certified and approved for the Russian market.

Logical step: local production
By producing locally, Viessmann is taking account of the great demand for reliable heat generators of high technical quality, especially in the municipal economy and the residential trade. These are supplemented by energy-efficient modernization of industrial operations with modern hot water and steam boilers. Now that Germany has been supplying products to the Russian market for around two decades – even during the economic crisis of 2008 and the currency crisis of 2014 – setting up a new production plant in Russia was the logical and necessary step. In the future, this will enable products to be made that are tailored to the specific requirements of the market.

Efficient manufacturing and environmentally friendly
Having a production plant of its own in Russia will allow Viessmann to acquire new customers and thus boost its sales on this market. The company is going to produce high-quality, efficient, environmentally friendly products in and for Russia. Producing in the special economic zone (SEZ) of Lipetsk ensures proximity to customers. This creates more flexibility, speedier delivery, and better after sales service. Building the new plant has made Viessmann a domestic producer.

Lipetsk is an ideal location
The Russian market was first carefully analyzed with regard to a local production facility, and several potential locations were examined. Finally, the decision was made in favor of Lipetsk. It has a good geographic location close to customers and steel suppliers, as well as qualified personnel. What is more, the necessary infrastructure is also already in place in the special economic zone.

Tour of inspection at the inauguration of the new plant: by producing in Russia, Viessmann will be able to meet the great demand for heat generators of high technical quality.
The Viessmann plant in Berlin has been fully modernized. A completely new burner development was built. Now new gas and oil burners for mid-size boilers can be tested on five new beds laid out for outputs of up to 2,000 kilowatt.

Boiler completion is also new, where the base body, thermal insulation, burner, and control are all combined into a completely pre-assembled boiler. Formerly, the boiler was only completed at the construction site. Viessmann has thus once again significantly improved service for its customers in the mid-size boiler range.

Furthermore, a large office building featuring the most modern equipment was built for building control.

Senator for Economics and Borough Mayor as guests
Berlin’s Senator for Economics Ramona Pop visited the plant together with Borough Mayor for Neukölln Franziska Giffey, who had Lutz Lehmann show them around the new areas. During the tour, the managing director pointed out that the investment demonstrated a clear commitment to Berlin as a site of the company’s operations. “This is where highly qualified specialists are working on the technologies of the future,” said Lehmann.

Senator: „Viessmann is setting striking exclamation points”
“Viessmann is an excellent example of how a traditional industrial company takes advantage of the opportunities presented by ecological modernization,” the senator summed up. And Borough Mayor Franziska Giffey added: “Viessmann’s new developments of industrial energy systems are pointing the way with striking exclamation points, and safeguarding nearly 400 jobs in Berlin-Neukölln.”

A focal point of investment in the Berlin site: view of one of the five new burner test beds.
The Viessmann Group has inaugurated its new sales office in northwest Hamburg. A total of 3.5 million Euros were invested in the site, at which twenty employees provide consulting and other support for the region’s trade partners. In addition, training courses and information events are regularly held in the rooms of the branch office. More than 100 trade partners came to the inauguration ceremony, as well as representatives of professional associations and business.

 Heating and cooling with heat pumps
The conveniently located 5,000m² grounds now boast a sales office building that is CO2 neutral, with its power and heat coming entirely from renewable energy. The environmentally friendly heating and cooling of the 750m² building is accomplished with the aid of a brine/water heat pump from the company’s comprehensive range of products. It is specifically laid out for large outputs and gets its energy from a 125m³ ice storage system.

 Solar energy generates heat and power
Solar energy is also put to use. Three 6m² vacuum tube collectors mounted on the front of the building supply hot water. On the roof, 256 photovoltaic modules with a total output of 64 kWp generate electric power for the building.

The energy concept also involves covering peak demands with environmentally friendly electricity generated by biomass, hydropower, or wind. Viessmann developed its own sustainability concept for providing its sales office with an energy-saving and environmentally friendly supply of heat and power. This concept is comparable to the gold standard of the German Sustainable Building Council (Deutsche Gesellschaft für Nachhaltiges Bauen – DGNB). Thus the building already meets the requirements of the Energy Performance of Buildings Directive (EPBD) for 2020.

 Key to success of the energy transition is in the heating market
Hence the new sales office can be seen as an example of best practice. The building shows which efficiency potentials can be enhanced by using technology available on the market. Here lies the key to the success of the energy transition, Prof. Viessmann emphasized in his speech. He expressed his thanks to everyone who helped with the new building, as well as to the company’s customers.

New sales office in Hamburg with a CO2– neutral heat and power supply
Entire demand covered with renewable energy

Contact
Hamburg Sales Office
Essener Str. 93
22419 Hamburg-Langenhorn, Germany
Telephone: +49 (0)40 756033–0
Fax: +49 (0)40 756033–41
Branch Manager:
Friedbert Nietsche

The new sales office in Hamburg meets the highest efficiency requirements, such as the Energy Performance of Buildings Directive (EPBD) to take effect 2020. The building’s exhibition and seminar rooms are also available to the region’s heating system contractors for consulting programs and training courses.
15,000 people, 100 years, three sites: Viessmann celebrates its biggest family festival

Centenary festival in Hof, Berlin and at company headquarters in Allendorf

The chief message of the day was condensed by Prof. Martin Viessmann into two words: “Thank you!” Technology made it possible for thousands of people to hear these thanks for their loyalty and decades of commitment to the company at the same time. And at places that are hundreds of kilometers apart: at headquarters in Allendorf, in Hof, where the company was founded in 1917, and in Berlin.

A total of 15,000 employees and their families celebrated the biggest family festival in the history of the company and enjoyed an unforgettable day with many highlights on August 26. Probably the biggest highlight was the “Centenary Moment”, when the locations joined in a live link-up and together formed a huge chorus to sing a song composed expressly for the anniversary.

Discover new things
The Motto in the centenary year, “100+ Into a new century,” was also the leitmotif of the festival. In keeping with the motto “discover something new, shape it, and set it in motion,” one highlight followed another on the total of nine stages.

Throughout the show, particular emphasis was placed on providing opportunities to join in. The participants were lightheartedly led through the mysteries of physics and improvisational theater, there were dancing and fitness workshops, and they could even learn archery, to name but a few. The company sponsored winter sports stars in particular were always surrounded by dense crowds.

The centenary moment
Highlight was the centenary moment, when a drum roll announced that all three locations were connected by satellite. Employees at all three festival locations joined in singing a song that had been written and professionally rehearsed expressly for the anniversary. And at the same time, thousands of balloons with the wishes of the employees rose into the skies above Allendorf, Hof, and Berlin. This followed a panel discussion in which Prof. Martin Viessmann, his son Maximilian and CEO Joachim Janssen had talked about how to take on the challenges of the future and start off into the next hundred years. All three emphasized the exceptional get-up-and-go spirit that could be felt everywhere in the company.

Employee campaign yields donations of 120,000 euros
Max Viessmann underscored this spirit when he highlighted the “HereViGo” employee project: since the beginning of the year, a large number of employees had been planning and successfully implementing a large number of personal projects as part of the “HereViGo” campaign. For each goal that was reached, the company made 1,000 euros available for a good cause. In this way, the impressive sum of 120,000 euros was collected, which are now being donated to UNICEF, terre des hommes, and the Hans Viessmann School in Frankenberg (Eder).

Thus the day was not only marked by a show of gratitude, but also showed that the commitment of the employees is producing excellent results at many different levels, completely in keeping with the exhortation Prof. Viessmann had made to the employees and their families in his very personal address, when he said: “Let us together make a contribution to preserving this company, this unique family togetherness, and the planet Earth for generations to come.”
“Incredibly impressive”

Statements of visitors

“We like it here so well because we have already been able to discover so many new things and still have a long way to go.” Employee Verena Wilke (currently on parental leave) with her son Ferris and brother Tobias Eigenbrod.

“Everything just tastes so good here!” Employee Bernd Koller.

“At the various interactive stations, you could see the world from different perspectives.” Employees Natascha Huft, Lena Lessing and Vanessa Sohn, with Katharina Truß.

“That was fun! The festival was a good opportunity to shoot a bow and arrow again.” Employee Klaus Krähling.

“Incredibly impressive, what they put together here.” Wolfram Mattner, Presales Consulting

The centenary festival was celebrated at headquarters in Allendorf, as well as in Berlin and Hof all at the same time. Under the motto “Discover something new, shape it, and set it in motion,” a total of 15,000 employees and their families took advantage of the great variety on offer.
It was a great moment in Viessmann’s company history when the Viessmann Innovation Center was inaugurated at headquarters in Allendorf (Eder) in the presence of German Chancellor Angela Merkel last April 12. Half a year later, we were able to take stock for the first time, and the results are thoroughly positive.

Intensive communication among a wide variety of experts
If something new is to be created, knowledge has to be connected. That is why one goal of the new research and development center was to bring together various experts from research and development, prototype construction, the various laboratories, and software development, as well as product and quality management. “This was a huge success,” says Michael Imhof, head of System Testing. “Cooperation among the various departments has become part of daily work here.” Instead of having to go on long treks to meet as in the past, staff can now get together on the well-lighted spaces between their workstations. Distances are all short in the Innovation Center, production is right next door, and employees can seek new ideas and tweak them until they are optimized. “What is now happening here is exactly what we intended: intensive communication,” says Imhof in delight.

Functional models overnight
Prototype construction is integrated in the Innovation Center so that the ideas coming up here in the course of cross-departmental collaboration can be turned into custom-fit models for new condensing boilers, hybrid systems, fuel cells, heat pumps, and controls.

The Viessmann Innovation Center, which opened in April 2017, is the new nucleus for innovation at company headquarters in Allendorf (Eder).

Think tank and high-tech laboratory
Research and development center in operation for half a year
Speed and flexibility are crucial here, because ever shorter innovation cycles require design ideas to be implemented in the shortest possible time. So not only are we making use of traditional procedures, such as milling, turning, and welding, but also of innovative 3D printing.

A 3D printer fashions a component, such as the hydraulic connection block of a gas condensing boiler, layer by layer out of plastic or metal. This is not only considerably less costly than milling or casting, but the functional model is also available much sooner. So components are often ready overnight and can be examined for functionality the very next morning on one of the 110 test beds.

**Quality put to the test**
Apart from these test beds, which are primarily used for new developments, another 250 test beds are available for endurance tests and long-term testing to determine how robust the devices will prove to be under realistic conditions. What is more, twelve air conditioning cells enable trials at temperatures from –45° to +50° C, as well as at differing levels of relative humidity.

**Device data as a driver of innovation**
Last but not least, up-to-the-minute measured values from several hundred field tests are a topic close to the hearts of the developers in the Innovation Center. Exhaustive analyses and evaluations of these device data – such as heating times, external and boiler temperatures – flow directly into the product development process and further advance energy efficiency. “This is another assurance that Viessmann customers can continue to count on top quality in the future, as well,” Michael Imhof emphasizes, with a radiant smile.
Future Energy: Action for Global Sustainability – This was the motto of the world exhibition held in Astana, Kazakhstan, from June 10 to September 10, 2017. Viessmann presented three technologies of the future in the Central Asian metropolis: ice storage system, fuel cell, and power-to-gas.

The grounds of Expo 2017 covered a total of 113 hectares. According to the projections of the organizing committee, the world exhibition drew about five million visitors. The spectators proved to be especially interested in the EBPA Pavilion, where examples of best practice related to the topics of renewable and alternative energy sources were on display. On the whole, there were more than 130 applications from 25 countries. From these, an international jury chose 24 participants – including Viessmann, which had the largest single presentation in the pavilion.

Great interest shown by representatives of politics and media

From the very first day on, the ice storage system, fuel cell, and power-to-gas exhibits attracted great interest. German Federal President Frank-Walter Steinmeier traveled at the head of a business delegation – including Prof. Martin Viessmann – to the Kazakh capital to get acquainted with Expo 2017 and the German exhibitors on the world exhibition’s German National Day.

Other high-ranking representatives from the world of politics were also hosted at the trade fair stand, including Kazakhstan’s Agricultural Minister Askar Myrzakhmetov, who visited the Viessmann stand with a delegation 25 strong. A Chilean delegation headed by Jimena Jara Quilodrán, the under-secretary of energy in the ministry of energy, also came to gather information on technologies of the future and issues of energy supply.
Strongest national economy in Central Asia

Showing growth averaging more than nine percent in the past ten years, Kazakhstan is the strongest national economy in Central Asia. The country is rich in mineral resources—especially oil and natural gas—and also has thriving chemical and heavy industries. The economic focal point of the country is Astana, which replaced Almaty as capital city in 1997.

Active in Kazakhstan since 2005

Viessmann has been successfully established in Kazakhstan with its own sales office since 2005. To serve this important Central Asian market, the staff at this office has now grown to six employees. Among the most important reference projects are the international airport in the capital city of Astana, in which three 3.5 MW Vitomax 300-LT are used to supply heat. Barys Arena, a venue of the Barys Hockey Club in Astana, proves that even an ice stadium requires a heat supply. Here a total of five 2.8 MW Vitomax boilers are installed. In one of the Republic of Kazakhstan’s medical centers, three 6.6 MW Vitomax boilers make for a reliable heat supply. This facility provides medical care for government employees, also including preventive health care and rehabilitation.

Viessmann heating technology in Kazakhstan

Astana airport

In the new capital of Astana, an international airport was put up that uses three Vitomax 300-LT, each with an output of 3.5 MW, to supply its heat.

Barys Arena

Barys Arena is one of the venues for the Kontinental Hockey League. It is heated by a total of five Vitomax boilers, each with an output of 2.8 MW.

Medical center

In a medical center in the Republic of Kazakhstan, three Vitomax boilers, each with an output of 6.6 MW, ensure a reliable supply of heat.
Heat pump, electricity storage system, and DHW cylinder (from right): the heat pump runs on electricity from the photovoltaic system, the electricity storage system stockpiles surplus electricity.
Photovoltaics and electricity storage systems

Reliable, efficient energy systems for a power and heat supply of one’s own

The wish of many homeowners to be more independent of the public power supply can now increasingly come true: with energy systems consisting of precisely coordinated components.

Vitovolt 300: photovoltaic systems for high electricity yields
Whether on single-family homes, large residential complexes, or on the roofs of commercial and industrial buildings, the Vitovolt 300 photovoltaic modules offer the right solution for every application. Outstanding quality and especially effective antireflective glass make for high yields. All modules come with a guaranteed nominal output and a positive output tolerance. This means up to five watts more per module. A ten-year product warranty and a guarantee of at least eighty percent of the nominal output for 25 years provide investment security.

Electricity storage system for even greater independence
An electricity storage system is the ideal supplement for storing the electricity from a photovoltaic system to use at a later time to run a heat pump, for instance. This enhances independence from the public supply and increases the use of self-generated electricity. And the storage system can also be combined with a Vitovalor 300-P fuel cell heating system.

Precisely coordinated electricity storage system sizes
Various system configurations and requirements call for precisely coordinated electricity storage system sizes. That is why electricity storage systems with capacities from 3.2 to 18.6 kilowatt-hours are available. The lifespan of the Li-ion cells is laid out for a minimum of twenty years and 6,000 charging cycles. All electricity storage systems are also prepared for grid backup and stand-alone operation. This means that the most important electrical consumers in the house, such as lighting, heating, and alarm systems, will still be supplied with electricity after a power outage.

Up to 100 percent fundable
The KfW program “Renewable energies – storage” supports investment in this technology with low-interest loans and an attractive repayment bonus. The loan can fund up to 100 percent of the eligible net investment costs. In addition, there is a repayment bonus of sixteen percent. More detailed information can be found at www.viessmann.de/foerdermittel.

Advantages for trade partners
- Easy installation thanks to coordinated components
- Security thanks to product warranty and output guarantees

Advantages for users
- Reduction of purchased electricity from the public grid thanks to use of self-generated electricity
- High yields thanks to guaranteed nominal output and positive output tolerance
- All components from a single source
- Investment security thanks to comprehensive guarantees
- Adaptation to individual needs thanks to modular construction
- Parallel processing mode, grid backup, and stand-alone operation possible
- High level of operational reliability thanks to fail-safe Li-ion cells
- Long lifespan of up to twenty years and up to 6,000 cycles
- High energy yield thanks to high overall efficiency of up to 90%
- Maintenance-free components for minimum operating costs

Technical data on Vitovolt 300
- Modules: 270 to 300 Wp
- Inverters: 1.5 to 42 kW

Technical data on the electricity storage system
- Nominal capacity: from 3.2 kWh
- Lifespan: at least 20 years
- Number of cycles: at least 6,000
**Vitocrossal 300**
Gas condensing boiler offers highest level of ease of operation and servicing

The new Vitocrossal 300 is setting standards when it comes to being user-friendly and easy to service. The Vitotronic control with a color touch display shows energy consumptions in the form of colored histograms. The integrated commissioning assistant provides help with all major steps.

**Perfect access to all parts**
For easy servicing, all relevant parts can be exposed with a few simple hand movements: take off the boiler front, lift the top cover like the hood of a car, and push the side panel back – already all parts are perfectly accessible.

**Advantages for users**
- Easy to cascade thanks to a cascade function for up to eight boilers
- LAN interface for online monitoring
- Suitable for all types of gas E (high calorific), L (low calorific) and LL (very low calorific), as well as liquid gas (from 186 kW)

**Advantages for trade partners**
- Easy commissioning thanks to electronic assistant feature
- Easy to service thanks to sliding side panel and hinged boiler cover

**Technical data**
- Output: 87 to 311 kW
- Standard utilization rate: 98% (Hs)
- Permissible operating pressure: 6 bar
- Modulation range: 1:5
- Energy efficiency class: A

---

**Vitocrossal 100**
Compact gas condensing boiler for a wide variety of uses

The new Vitocrossal 100 is a universal gas condensing boiler for export with outputs from 80 to 318 kilowatt and as a twin boiler unit up to 636 kilowatt. Especially when old systems are replaced, there are often tight spaces to cope with. The smallest model of the new boiler measures only 450 millimeter without paneling and is thus ideal for replacing old boilers in tight spaces.

**Automatic adjustment to the type of gas**
The boiler has an Inox-Crossal stainless steel heat exchanger and a MatriX cylinder burner. The Lambda Pro Control combustion control automatically adjusts the burner to the type of gas (natural gas E (high calorific) and LL (very low calorific)).

**Advantages for users**
- Low cycle frequency thanks to large volume of water and wide modulation range from 1:5
- Low power consumption, no minimum flow rate, and thus no boiler circuit pump needed
- Easy-to-operate control with large color touch display
- Integrated LAN interface for link to Internet
- Quiet operation thanks to MatriX radiant burner and optional balanced flue operation

**Advantages for trade partners**
- Easy to get through and into tight spaces
- Fast installation thanks to pressembled, prewired components
- Optional open flue or balanced flue operation
- Easy to service and maintain
- Easy-to-install twin-boiler solution

**Technical data**
- Output: from 80 to 318 kW (twin boiler up to 636 kW)
- Standard utilization rate: up to 98% (Hs)
- Energy efficiency class: A
This year, an entirely new series of innovative split-design and monoblock air/water heat pumps is being launched on the market, starting in the spring with the Vitocal 200-S und 200-A with wall-mounted internal units. They were joined in September by the Vitocal 222-S compact unit with an integrated DHW cylinder.

Only 35 dB(A) at a distance of three meters

The external units are setting new standards with the innovative “Advanced Acoustic Design.” This enables the heat pumps to be operated in densely populated residential areas, such as townhouse complexes. At a distance of only three meters, these units already fulfill the requirements of the German Technical Instructions on Noise Abatement (Technische Anleitung zum Schutz gegen Lärm – TA Lärm), which specify a noise pressure level of 35 dB(A) for neighbors at night.

The compact internal units include a hydraulic module and the control; split-design units have an additional liquefier. They are almost noiseless and can be installed near living quarters.

Efficient heating and cooling with self-generated solar power

The new heat pumps are optionally available in models for heating only or for both heating and cooling. They can be used together with a Vitovolt photovoltaic system and a Viessmann electricity storage system for even greater independence from the public grid. The heat pump multiplies the solar yield by generating up to five times the amount of thermal heat from each kilowatt-hour of electricity. The models with a cooling function can also use solar power to cool buildings in the summertime. Surplus electricity from the photovoltaic system is stored in the electricity storage system for use later, in the evening and at night, for instance.

Advantages for trade partners
- Can also be used in townhouse complexes
- Meet the requirements of the German Technical Instructions on Noise Abatement (TA Lärm)
- No proof of competence for refrigerants (“Kälteschein”) required for installation
- Long-lasting and robust operation thanks to high quality
- Easy servicing thanks to good accessibility of all major components
- Prepared to use solar power

Advantages for users
- Especially quiet thanks to Advanced Acoustic Design
- Heating and cooling with one unit (optional)
- Low electricity demand thanks to high level of efficiency
- Easy-to-use control
- Remote control with free ViCare App for the 200 and 300 series
- Central control of Vitovent 300-W and 300-F ventilation units possible
- Prepared to use solar power

Technical data
- Heat output: 3.8 to 11.6 kW (at A-7/W35° C)
- Cooling output: 4.5 to 10.0 kW (at A35/W18° C)
- COP in accordance with EN 14511: up to 4.1 (at A2/W35° C, up to 5.0 at A7/W35° C)
- Energy efficiency class: A++
Perfect refrigeration solution for Almhof Schneider

Exclusive hotel in Lech am Arlberg puts its trust in the expertise of Viessmann Kühlsysteme GmbH

Lech am Arlberg – this name stirs the hearts of discerning winter sports enthusiasts all over Europe and beyond. From this location, skiers can access more than 300 kilometers of ski runs, as well as another 200 kilometers of deep-snow slopes. What is more, the region has snow all the way into April. Even in summer, Lech – which was chosen as the “most beautiful village in Europe” in 2004 – is a dream destination for anyone seeking rest and recreation. Its unique setting in the midst of the alpine wonderland of the Vorarlberg makes it an attraction not only for athletic endeavors, but also for less strenuous pastimes.

Family-run hotel steeped in tradition
Almhof Schneider is one of the most exclusive addresses in Lech – and one of the dwindling number of family-run hotels in the luxury segment. The Schneider family has been living in the village since 1451. In 1929, the original farm became a hotel – a rather modest one to begin with. Today, Almhof is run by Gerold Schneider and his wife Katia, the fourth generation of the family to manage the establishment. This personal management is what the guests appreciate so much that more than 90 percent of them keep coming back; some for generations.

Privileged location
Almhof Schneider enjoys a privileged location – away from the main road at the foot of the Schlegelkopf, Lech’s local mountain. All 33 suites and 17 rooms, stylishly furnished with local materials, exude an alpine atmosphere and offer guests a living room far from home that is an oasis of peace.

Top priority for the Schneider family has always been and still is to pamper their guests in every possible way. Hence the spa area is accordingly spacious and luxurious, and great attention is paid to presenting a cuisine that is unrivaled even far beyond the borders.
of Vorarlberg. Only select producers are entrusted to supply the ingredients for the refined alpine cuisine, whose roots go far back into Austrian tradition, ensuring that only the best the region has to offer is brought together.

**Highest demands placed on food refrigeration**

Of course, such a sophisticated cuisine places the highest demands on refrigerating the food. In the course of extensive modernization work at Almhof, the former refrigeration cells were paneled with stainless steel and supplemented with Tecto Standard Plus cells made of stainless steel from Viessmann. This created a visually appealing “refrigeration line”, whose planning and installation was done by Walch GmbH in Landeck, Tirol.

**As efficient and easy to oversee as possible**

Gerold Schneider explains the advantage of the new concept, saying, “Our renovation in 2015 gave us an opportunity to accommodate delivery, cleaning, and storage of the goods on the same floor as the kitchen itself. So now our cooks don’t need to go into the cellar any more. This makes everything as efficient and easy to oversee as possible.”

**Coupled with heat recovery**

There were several reasons why the Almhof owner decided on innovative technology made by Viessmann: “Products from Viessmann last a long time thanks to their solid workmanship, and can be kept up to the latest state of the art very flexibly with other components, such as sliding doors, in order to meet our high standards. Like all the refrigeration units in the building, we coupled these refrigeration cells with a heat recovery system that feeds the heat that is generated back into the system. This is our way of trying to help conserve resources as much as possible in our operations.”
Last season, there was no way around Nordic combined athlete Johannes Rydzek (in the foreground). He dominated the World Cup in Lahti, Finland, by winning four titles. He only had to yield in the overall World Cup to his Viessmann team colleague Eric Frenzel.
Winter sports fans from all over the world are eagerly looking forward to the 2017–2018 season. And no wonder, since apart from the Ski Jumping World Cup in Oberstdorf and other exciting world cups, there will also be the Olympic Games in Pyeongchang, South Korea, the biggest highlight on the competition calendar since the Games in Sochi in 2014.

More games held than ever before
From February 9 to 25, this region of 44,000 inhabitants in the Taebaek Mountains, the country’s largest mountain range, will see 102 games decided – more than ever before in the history of the Winter Olympics. There will be new competition formats in the sports of alpine skiing, snowboarding, ice speed skating, and curling.

15 World Cup medals last winter
Many of the company-sponsored athletes on the Viessmann Team, after winning no fewer than 15 medals at last year’s World Championships, are now also making their way to South Korea with the best chances of winning medals. Seen as especially promising are the exceptional biathlete Laura Dahlmeier, the Nordic combined athletes Eric Frenzel and Johannes Rydzek, lugers Tatjana Hüfner and Felix Loch, and double luge duo Tobias Wendl/Tobias Arlt, who won a total of three gold medals and one silver in Sochi. In the ski jumper’s camp, hopes are set on a quick recovery for Olympic champion Carina Vogt, who suffered a pulled muscle last summer and had to discontinue her training for six weeks. The signal starting the Olympic winter for all disciplines will already be given in November.

Biathlon
Following the World Cup in Hochfilzen, from which she brought back five gold medals and one silver, Laura Dahlmeier is going to the games in Pyeongchang as one of the top favorites. “Her biggest advantage is her mental strength,” is how German national coach Gerald Hönig characterizes his athlete. The now recovered Franziska Preuss and “warhorse” Franziska Hildebrand are two more Hönig protégées aiming to win themselves some medals.

Gabriela Koukalová, who won the sprint World Championship in Hochfilzen, also has good reason to hope for a medal. Under her maiden name of Soukalová, she already bagged Olympic silver twice in Sochi in 2015–2016, making her the overall Winter World Cup champion. The Slovak Anastasiya Kuzmina, winner in the Olympic sprint races in 2010 and 2014, is also counted among the favorites for South Korea.

The hopes of the German Ski Association (Deutscher Skiverband – DSV) for medals in the men’s disciplines rest on Benedikt Doll, the surprise world sprint champion to come out of Hochfilzen, where Arnd Peiffer and his Viessmann colleagues Laura Dahlmeier and Vanessa Hinz won gold in the mixed relay, which will make its Olympic premiere in 2018.

Nordic combination
Last season, there was no way around Johannes Rydzek in the Nordic combination. This native of Oberstdorf won all four titles in the title bouts in Lahti, Finland, and only had to yield to his fellow-countryman Eric Frenzel in the overall World Cup. This native of Saxony won gold in the singles match in Sochi and, like Rydzek, is one of the biggest hopes on the Viessmann team for the upcoming Winter Games.

Luge
The German lugers are traditionally a sure bet for medals at the Olympics. Apart from the gold medal winners from Sochi, Felix Loch and Tobias Wendl/Tobias Arlt, the other Viessmann athlete making the trip to South Korea is Tatjana Hüfner, the current world champion. This 2010 Olympic winner won all six World Cup titles in Innsbruck-Igls, making her the sole world record champion.

Pyeongchang and Pyongyang – “Please don’t confuse the two!”
By the way, the similarity between the names of Pyeongchang and North Korean capital Pyongyang keeps causing confusion. Hence the governor of the South Korean region of Gangwon never tires of pointing out this danger at official events with foreign guests, and likes to tell the story of an African who traveled to Pyongyang instead of Pyeongchang. The poor man was only allowed to leave the communist country after suffering a long interrogation and paying a penalty of 500 US dollars. “So never confuse Pyeongchang with Pyongyang,” the governor is quoted.
Actively enjoy the remaining days of autumn

In many central European countries, the summer of 2017 was hardly what most people would have wanted. One more reason to wring even more active enjoyment from the remaining days of autumn.

Delsey “Grenelle” suitcase
This platinum colored, cabin size trolley is the ideal companion for weekend and business trips. It combines the strength of hard shell luggage with the convenience of a separate notebook compartment in the front, which opens like a soft shell suitcase – never again will you have to hectically unpack and repack your carry-on luggage for inspection! It has enough room for everything you need on short trips, measuring 55 x 35 x 25 cm for an interior volume of 44 L, and weighs little more than three kilograms.

Adidas Response Shirt for men
If you want to have real fun running or walking outdoors, you have to feel comfortable in your own skin. This perfectly fitting crew neck Tshirt in two attractive shades of red keeps you dry for a longer time thanks to its Climalite® material made of recycled polyester, which conducts perspiration away from the skin. What is more, recycled polyester helps protect the environment and conserve resources.

MULTI light POWER Speaker
The MULTI light POWER Speaker is a truly universal genius, since it is a flashlight, loudspeaker, speaker phone, powerbank, radio, and MP3 player all in one. The LED flashlight shines reliably for a long time and has a SOS blinking function for emergencies. The integrated battery with a capacity of 2,400 mAh can charge a cellphone or tablet if there is no socket available when you’re on the move. Connected to a smartphone by Bluetooth, this multi-tool can be used as a sound box, as well as for hands-free phone calls when it is attached to a car visor or the handlebars of a bicycle; it comes with the appropriate holder.

Self-chilling ceramic cup (set of two)
This self-chilling cup provides for high spirits on the beach, at a picnic in the park, or at a barbecue. No matter how hot it is outside, the beverage in this cup will always stay nice and cool. No ice is needed, since the material itself exerts a cooling effect as soon as the cup is immersed in cold water or held under a running tap for one minute. The open pores of the ceramic material absorb the water, which can later evaporate. The chill from this evaporation ensures a steady cooling effect.