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Russian Plastic Pipe Market is growing: PP-R, PEX, PE-RT and Multilayer Pipes

During the last years there has been a growing interest of builders and home owners to plastic pipes inside buildings / This is in stark contrast to metal pipes / PP-R systems still dominate the Russian market



KWD-globalpipe, 25.06.2020. In this article we would like to show that the plastic pipe market in Russia is developing positively and we would like to name the reasons for this. We also discuss the various pipe materials and their distribution in Russia. The idea and basis for this article is a presentation by Mikhail Zalysin, Export Manager of RTP (Rosturplast)/Russia, which he kindly made available for this article. We would like to take this opportunity to express our sincere thanks.

We would like to explicitly point out again that the Corona Pandemic will of course also affect or slow down the construction sector in Russia. However, we will not know about these effects for several months. It must therefore be taken into account that all statistics refer to the state of knowledge at the end of 2019.

Housing Construction in Russia has a positive dynamic

According to the deputy mayor of Moscow Marat Khusnullin, nearly five million square meters (sqm) of housing space was completed in Moscow in 2019, which is up by 40% year-on-year and represents the best result in 55 years. According to analysts and official data, Moscow's real estate sector is coming back to life, housing completions were tripling in the first half of last year. The rise in mortgage loans also points to increasing construction activity. This development was further reinforced by the drop of rates in 2019.

Redevelopment program in the Russian capital

Another source of optimism is the state sponsored redevelopment program in the Russian capital.

Main features:

- 1) 5144 buildings build between 1957 and 1968 will be demolished
- 2) New houses will be built instead. Ca. 1 500 000 people will get new accommodation
- 3) Plastic pipes inside the buildings are preferred
- 4) Enacted in 2017, start: 2019
- 5) Main supplier of plastic pipes: one of the dealers of RTP (Rosturplast /Russia)

KWD-globalpipe – Statutory Information:

HIX Publishing, Dipl.-Ing. Jutta Hix, 58332 Schwelm /Germany, Tel. +49 (0)2336 / 40 66 42, Fax +49 (0)2336 / 40 66 41.

Subscription rates: 40 issues per year EUR 250,00 (Germany: + VAT). Subscription will be renewed automatically for a further year unless cancelled in writing 8 weeks before expiry date. **Copyright KWD-globalpipe.** All rights reserved.

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Developments of the market of raw materials

In Russia, the raw materials for plastic pipes can be purchased either from foreign suppliers (e.g. Borealis, LyondellBasell, LG Chem, etc.) or from domestic suppliers. The differences have been mainly in availability, price and quality.

In the meantime, however, Russian raw material suppliers such as Sibur have invested in their production facilities and have been able to improve the quality of the raw materials. Also Sibur has expanded its production capacity and in 2019 a polymer logistics hub opened in Vorsino Industrial Park (located app. 90 km southwest of Moscow) to cater for needs of SIBUR's clients from various industries.



Sibur logistics hub opened in Vorsino Industrial Park

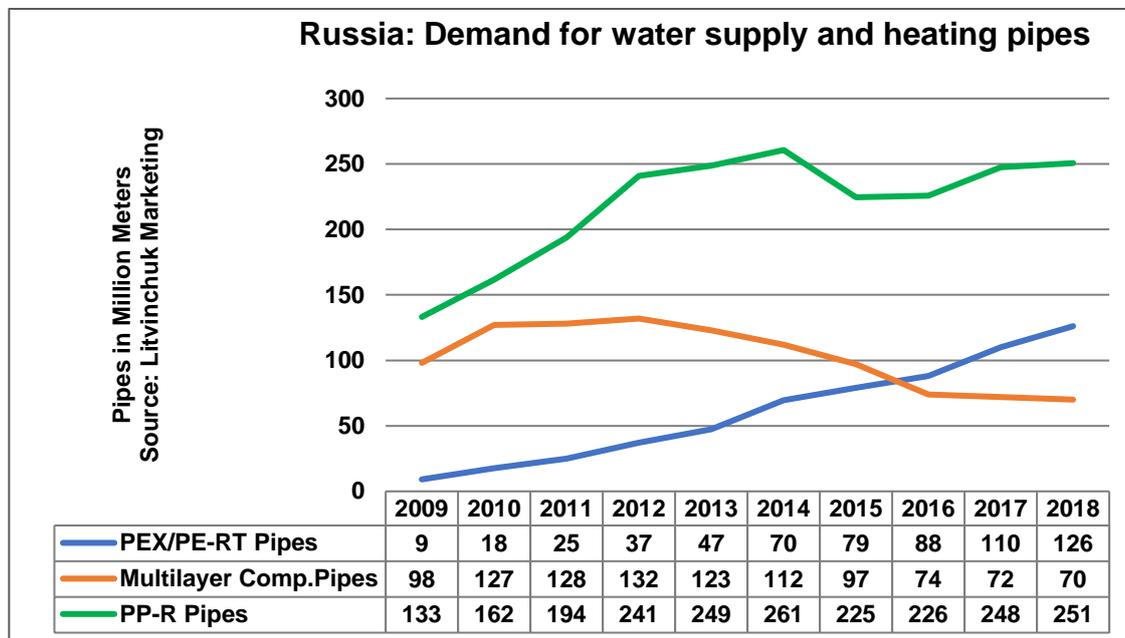
Growing Interest in Plastic Pipes

During the last years there is a growing interest of builders and home owners to plastic pipes inside buildings. This is in stark contrast to metal pipes. This can be seen for example when evaluating the Russian search engine Yandex.ru.

In recent years, the range of raw materials has also expanded. This means that a much larger range of plastic pipes can be obtained. Conversely, it also means that the demand has increased and therefore more types of pipe are offered.

Use of PP-R, PEX, PE-RT and Multilayer Composite Pipes

PP-R systems still dominate the Russian market for water supply and heating pipes. But nevertheless, the technical progress is going on and there is a demand for modern materials for water supply and heating pipes like PEX pipes, PE-RT pipes and Multilayer Composite pipes.



Findings of the pipe statistics:

- **PP-R pipes** still account for more than half of the pipes used in building services
- **The triumphal march of multilayer composite pipes**, on the other hand, seems to have come to a halt in Russia. This could be due to cheap imports from China, the quality of which was often very poor and gave the pipe a negative image. It is also interesting to note the situation of manufacturers in Russia. While we found at least 6 manufacturers of multilayer tubes in 2013

for the listing in our KWD Multilayer Study, there was not a single confirmed manufacturer of multilayer tubes for 2019.

- **PEX and PE-RT pipes** are gaining ground in Russia (this trend can be observed worldwide). Unlike rigid PP-R pipes, PEX and PE-RT pipes are flexible. The reason for the success could be the excellent material properties of the pipes and a much easier installation. Even if multilayer composite pipes are better in some properties, PEX and PE-RT solid plastic pipes are very often sufficient and these pipe types are easier and cheaper to produce than their relatives with the aluminum foil enclosed.

About RTP (Rosturplast) /Russia

LLC "RTP" was founded in Y2005 as a manufacturer of plastic pipes and fittings according to the demands of the Russian and foreign markets. The biggest plant is located in the Moscow region. Three other production facilities are situated in Siberia, on the East coast of the Black sea and in Ankara (Turkey). The most up-to-date European equipment for production of the plastic pipes and fittings are installed in all production sites.

RTP is an ISO certified company (since 2017).

All technical staff of RTP completed preparation courses and tutorials in European plants of equipment suppliers and obtained relevant professional certificates. RTP use the best raw materials, meet the highest standards of production and perform permanent product quality control.



RTP is a member of PSMA (Pipeline Systems Manufacturers Association). It was founded in 2006 and has currently 37 members (including companies affiliated with PipeLife and GF). The majority of members are producers of plastic pipes.



The Priority nowadays are: Fighting illegally produced and counterfeit plastic pipes (including initiation of legal proceedings) and • Standard development for plastic pipes systems.

Contact: RTP (Rosturplast), Plastic Pipes and Fittings, Russia, www.rosturplast.com.
PSMA, Pipeline Systems manufacturers Association, Russia, www.rapts.ru.

Plastics Pipe Institute (PPI) announces projects and members of the year

The Plastics Pipe Institute (PPI) has announced the winners of its projects and members of the year program during its annual meeting held online on May 5, 2020.



KWD-globalpipe, 25.06.2020. A Project of the Year and a Member of the Year were selected for each of the five PPI divisions: Building and Construction, Drainage, Energy Piping Systems, Municipal and Industrial, and Power and Communications. The meeting was conducted online due to the COVID-19 pandemic. PPI is the major North American trade association representing all segments of the plastic pipe industry.

"This year was a little different for us because it was the first time we could not physically congratulate each winner," said PPI President David Fink. "But just as in years past, the nominated projects in each of our five divisions were remarkable and the winners exceptional. It was a healthy competition, and that must be very satisfying to the winners."

The association's annual awards program recognizes projects and members for exceptional contributions to the industry. Submissions in the association's divisions are reviewed, evaluated and voted upon by the PPI members.

The following are the PPI winning projects of the year:

- **Versaprofiles (Canada):** „Vancouver International Airport Geoexchange System" in PPI Building Construction Division
- **Advanced Drainage Systems Inc. (USA):** "Hugh K. Leatherman Sr. Terminal, North Charleston, South Carolina" in PPI Drainage Division

- **Teel Plastics (USA):** “Henderson Municipal Gas (HMG) PA 12 Gas Pipe Installation” in PPI Energy Piping Systems Division
- **WL Plastics (USA):** “Colman Tunnel Sewer Sliplining, Centennial, Colorado” in PPI Municipal & Industrial Division
- **Teel Plastics (USA):** “Alliant Energy Private Fiber Optic Network, Madison, Wisconsin” PPI in Power & Communications Division

Contact: Plastics Pipe Institute Inc. (PPI), USA, www.plasticpipe.org

Versaprofiles: PPI award for geothermal ground loops for CUB Geexchange system

The PPI member company got the award in PPI Building Construction Division Project of the Year for its HDPE geothermal ground loops, which will be used in the construction of the new Airport Central Utilities Building (CUB) in Vancouver / Contract signing was in 2019



VERSAPROFILES
TUBES, PROFILES, COMPLEX SOLUTIONS MADE SIMPLE

KWD-globalpipe, 25.06.2020. The Vancouver International Airport's new Central Utilities Building (CUB) will improve efficiency by centralizing all of the equipment needed to meet the airport's heating, cooling and electrical demand. To achieve this goal, the project will rely on one of the largest Geoexchange systems in Canada. Geoexchange technology uses the earth's renewable energy, just below the surface, to heat or cool buildings. This system will provide sustainable heating and cooling for the terminal. The Geoexchange system is expected to substantially reduce CO2 emissions from heating and cooling demands by 30 to 35 %.

Versaprofiles awarded largest Canadian geothermal energy project contract in spring 2019

A newly signed agreement has made Versaprofiles the leading Canadian supplier of geothermal loops. Vancouver International Airport recently launched its massive facility expansion plan, including the construction of the biggest geothermal energy project in Canadian history.

The geothermal ground loops produced by Versaprofiles, which is located in Quebec's Bellechasse region, will be used in the construction of the new Airport Central Utilities Building, an important component in the multi-year Vancouver International Airport expansion project. Versaprofiles Operations Manager, Jean-François Lavoie, explains: "The central utilities building will manage and distribute geothermal energy for the entire facility, including the main terminal. The initiative will also help the airport to meet its objectives of reducing the emission of greenhouse gases".



Project "Vancouver International Airport Geoexchange System" in Vancouver, Canada (Photo: www.phcpro.com)

Geothermal energy harnesses the renewable energy located below ground to heat and cool buildings. In this era of environmental sustainability, it is an indispensable technology, which is why Versaprofiles is anticipating the launch of several new major geothermal energy projects across Canada and in the U.S. Northeast. "The activities generated by the Vancouver International Airport contract, along with several additional new projects in which we expect to be involved outside of Quebec, align perfectly with our development and expansion plans," explains Versaprofiles President and Owner, Serge Mercier.

The new agreement, signed with Ground Source Energy, the company responsible for developing and building the geothermal ground loop system for the energy facility, includes the production of 841 Verticalloop geothermal loops measuring 500 feet each, for a total of 841,000 feet of high-density polyethylene geothermal piping. The project will require the equivalent of 35 days of production ca-

capacity for the Versaprofiles Saint-Lazare-de Bellechasse facility. As production is already underway, the first geothermal loops were installed in April, 2019. The Airport Central Utilities Building is expected to launch in 2022.

Contact: Versaprofiles, Canada, www.versaprofiles.com

Source: Versaprofiles and Plastics Pipe Institute Inc. (PPI), USA, www.plasticpipe.org

Advanced Drainage Systems: PPI award for HP storm PP pipe in new terminal

The PPI member company got the award in PPI Drainage Division Project of the Year for Advanced Drainage Systems' HP Storm Polypropylene Pipe for Hugh K. Leatherman Sr. Terminal in North Charleston, South Carolina.



KWD-globalpipe, 25.06.2020. The original storm drainage design for the new terminal incorporated reinforced concrete pipe and concrete box culverts. During the design phase of the project, the engineer became concerned about joint separation and the potential for infiltration due to predicted sub-surface soil settlement along the Cooper River.

In order to mitigate joint separation and possible infiltration, Advanced Drainage Systems' HP Storm Polypropylene Pipe was selected as the storm drain conveyance pipe for the entire project due to its ease of handling, extended joint, double gaskets, and flexible design. As a result of the redesign, some 27,000 feet of ADS HP STORM was used to convey all storm water on the site.

Contact: Advanced Drainage Systems, Inc. (ADS), USA, www.ads-pipe.com

Source: Plastics Pipe Institute Inc. (PPI), USA, www.plasticpipe.org

Teel Plastics got two PPI awards: For PA 12 gas pipe and telecom network conduit

The PPI member company got the awards in PPI Energy Piping Systems Division for PA 12 gas installation pipes for a multi-stage project in Henderson (KY) and in PPI Power & Communications Division for telecom network conduit, being intalled across Alliant's service area in Iowa and Wisconsin.



KWD-globalpipe, 25.06.2020. Teel plastics serves a worldwide customer base from three manufacturing facilities located in Baraboo, WI. Their business focuses on technology driven products and exciting new markets with unique product families such as custom products for the healthcare sector and industrial products including water treatment, converting cores, pipe, and packaging.

PPI award in Energy Piping Systems Division

The city of Henderson (KY) installed in a multi-stage project 2,720 feet of PA 12 gas pipe extruded by Teel Plastics. This marked the first PA 12 installation under the PHMSA Mega Rule effective January 2019, which allows PA 12 to be installed without a special permit.

HMG installed the pipe through an industrialized area of the city. To minimize disruption to businesses, Henderson installed it underneath driveways and existing utilities. HMG buried sections using horizontal directional drilling (HDD), pulling the pipe through bored holes and fusing the sections together. More ductile + much lighter



Project: "Henderson Municipal Gas (HMG) PA 12 Gas Pipe Installation" in Henderson, Kentucky (Photo: www.phcpro.com)

than steel, PA 12 made the HDD installation much easier than it would have been with steel pipe.

PPI award in Power & Communications Division

Teel conduit is being installed across Alliant's service area in Iowa and Wisconsin to improve its telecom network's security, speed, and reliability. For a utility with a large service area including more than 970,000 electric and 420,000 natural gas customers, reliability and capacity are crucial during critical events. The conduit will protect existing infrastructure and allow for later expansion of network capabilities while providing cost savings to Alliant Energy.

The cost savings associated with installation of the conduit and fiber benefits Alliant Energy in multiple ways. Replacing its telecommunication carriers with their own network will protect them from future price increases. Alliant Energy will also decrease its reliance on over-the-air communication, such as microwave radios. In addition, the fiber optic network serves as a gateway for Alliant Energy to work on advances in energy efficiency and technology, which would not be possible without a private fiber network.

Contact: Teel Plastics, Inc., USA, www.teel.com

Source: Plastics Pipe Institute Inc. (PPI), USA, www.plasticpipe.org



Project: "Alliant Energy Private Fiber Optic Network" in Madison, Wisconsin (Photo: www.phcppros.com)

WL Plastics: PPI award for HDPE pipe which was sliplined into an old sewer pipe

The PPI member company got the award in PPI Municipal & Industrial Division Project of the Year for a HDPE pipe to rehabilitate a deteriorating brick sewer in Centennial, Colorado.



PLASTICS
The Ideal Piping Solution

KWD-globalpipe, 25.06.2020. To rehabilitate a deteriorating brick sewer, 48-diameter HDPE pipe was sliplined into the old sewer. Flow was not allowed to stop during the pull, so a custom completely sealed pull head had to be designed and built so that sewage would not fill the drill string during the pull in. Another restriction was that the staging area only allowed for no more than 200 feet of pipe to be out of the tunnel at once. So, the pipe string was pulled as each stick of pipe was fused and added to the string of pipe.

Total pull length was more than 8,000 feet. A custom winch system was brought in for the heavy pull that included two spools of wire cable to get the length required.

WL Plastics is one of the largest manufacturers of HDPE pipe in North America. In early 2000, Mark Wason and Steve Burns, two longtime industry managers, founded WL Plastics to serve the water, sewer, mining and industrial pipe demand in the Rocky Mountain region. They quickly grew WL into a strong regional provider of PE pipe in the Rockies.

Contact: WL Plastics, USA, www.wlplastics.com

Source: Plastics Pipe Institute Inc. (PPI), USA, www.plasticpipe.org



Project: "Coltsman Tunnel Sewer Sliplining" in Centennial, Colorado (Photo: www.phcppros.com)

FRÄNKISCHE: AquaLimit tube throttle shaft for controlled discharge of stormwater

One of FRÄNKISCHE current highlights 2020 is the AquaLimit tube throttle shaft for the controlled discharge of stormwater from storage/infiltration systems and reservoirs.

FRÄNKISCHE INDUSTRIAL PIPES

KWD-globalpipe, 25.06.2020. AquaLimit tube supplements their range of throttle products with a model for very small outlets. The new flow control convinces in particular with its constant discharge – even in case of retention over the top edge of terrain. AquaLimit tube throttle combines superb discharge performance with the highest operational reliability.

AquaLimit tube is a modular PP throttle shaft DO 600 that is suitable for many applications and features an integrated tube throttle produced by UFT Umwelt- und Fluid-Technik Dr. Brombach GmbH. AquaLimit tube combines a strong discharge performance with highest operational reliability.

The modular shaft is characterised by steep Q(h) characteristics, a short delivery time, and easy installation. The removable tube throttle can be maintained and the vortex outlet can be adjusted subsequently. Stormwater retention systems discharge quickly but at the same time in a controlled manner that does not harm the discharge point. Therefore, the entire storage volume is quickly available for the next rainfall.

For detailed information please click [here](#).

Contact: FRÄNKISCHE Rohrwerke Gebr. Kirchner GmbH & Co. KG, Germany, www.fraenkische.com



ISH 2021: Supporting assoc.&advisory board behind world's leading SHK trade fair

The supporting associations and the trade fair advisory board met for ISH 2021, and one thing became clear: both stand behind ISH – representing the entire SHK sector / The prospects are extremely positive: demand is still high, all key players are on board and are looking forward to the event

ISH

KWD-globalpipe, 25.06.2020. On Tuesday, 16 June 2020, both the supporting associations and the ISH advisory board met in the Cape of Europe of Messe Frankfurt at an appropriate distance and under the given hygiene guidelines to discuss, among other things, the market and sector situation, but also the current status of the ISH in March.

The trade fair advisory board is made up of the ISH supporting associations - consisting of BDH (Association of the German Heating Industry), FGK (Building Climate Control Association), VDS (Association of the German Sanitation Industry), VdZ - Forum for Energy Efficiency in Building Services Engineering and ZVSHK (German Sanitation, Heating and Air Conditioning Association) - as well as other exhibitor and visitor representatives and Messe Frankfurt as the organiser. Together, all players are looking to the future with confidence and are united in their efforts to make ISH 2021 a success. Even though there is certainly some uncertainty and insecurity in the sector - due to the current developments surrounding Covid-19 and the associated unpredictability of the situation next year - everyone is backing the date of the event in March 2021.

Particularly against the background of the effects of the Covid-19 pandemic, the participants paid special attention to the consideration of hygienic and organisational measures for the event. Messe Frankfurt has developed a concept for this in consultation with the authorities.

The desire for personal contact - albeit regulated by hygiene and distance measures - is high in the industry. Wolfgang Marzin, Chairman of the Board of Management of Messe Frankfurt: "Particu-

larly in these times, trade fairs are crucial business platforms for promoting the economy. We are therefore very pleased about the green light from politicians. After months of trade fair cancellations, there is a great need in the HVAC sector to place orders and, in particular, to make new contacts in personal discussions. With this concept we are sending out a positive economic signal: ISH is doing everything it can to give the SHK sector the platform it needs. The top priority is the safety and health of all exhibitors, visitors, service partners and employees".

The ISH brings with its DNA "Water. Energy. Life." the vital things to the point. It is the leading international trade fair for modern, highly efficient heating technology, energy management systems and energy storage and shows the solutions for achieving climate protection targets.

The next ISH will take place from 22 to 26 March 2021 (Monday to Friday).

Contact: <https://ish.messefrankfurt.com>

MCE Mostra Convegno Expocomfort in Milano rescheduled from 8-11 March 2022

Considering the ongoing national ordinances and world sanitary emergence, Reed Exhibitions has decided to reschedule the September edition of both exhibitions, which will take place instead from the 8 to 11 March 2022 at Fiera Milano.



KWD-globalpipe, 25.06.2020. In February, Reed Exhibitions took the difficult decision to postpone MCE – MOSTRA CONVEGNO EXPOCOMFORT 2020, the world's leading biennial exhibition dedicated to residential and industrial plants, HVAC&R and renewable energy, and BIE – BIOMASS INNOVATION EXPO, dedicated to the world of biomass heating, from March to September.



A difficult but necessary decision, immediately supported by the market. At that time, September seemed the perfect time in which to hold the Exhibition. The market would have taken off again, eager to make up for the lost time, and become stronger after the lockdown. However, the extent, duration and scale of the Covid-19 pandemic went far beyond our imagination in February, both in Italy and abroad, causing an unprecedented time of social and economic uncertainty that has deeply affected all of us, both personally and professionally.

During this period, Reed Exhibitions have kept constantly in contact with its exhibitors, trade associations and visitors through several digital initiatives targeted #MCEMoveOnTogether launched in March. It has also continuously monitored the evolution of the government ordinances and regional decrees to draw up a safety plan for all MCE attendees in September: exhibitors, visitors, and all the staff involved.

“Our primary objective – says Massimiliano Pierini, Reed Exhibitions Italy Managing Director – is to stage events that could meet our stakeholders' business needs and reflect the unparalleled MCE and BIE brands international reputation. The hard job done so far, leads us to believe that September is no longer the ideal period for MCE and BIE, they could not be able to be as great as they are used to be. Due to the ongoing national and regional ordinances, still not ensuring resumption of exhibition activities in a short time, and multiple travel restrictions around the world, unfortunately, force us to reschedule MCE and BIE to 2022, from March 8 to 11.

Reed Exhibitions has already informed all its exhibitors and engaged the new procedures to cover all the economic aspects of the 2020 exhibitions edition.

In the meantime MCE and BIE activities will keep moving, through webinars and communication activities with exhibitors, and partnership with trade associations, under the #MCEMoveOnTogether campaign. Moreover, to keep the industry connected and moving forward after Covid-19, a range of new initiatives for 2021 will soon be introduced.

More news and updates about MCE and BIE 2022 on their websites, Facebook, Twitter and LinkedIn.

Contact: MCE – Mostra Convegno Expocomfort, Italy, www.mcexpocomfort.it