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01 About our company

PitON Electric is a Russian electrotechnical manufacturing company founded in 2011.



9 years on the market

Striving for perfection every single day.

The leaders of PitON have many years of combined work experience with manufacturers of electrical equipment around the world.

The superior quality and performance of the PitON products are the result of unique and extensive research.

In addition to power distribution solutions, the product range today includes UPS and cable-supporting structures.





Every year, PitON invests up to 5% of its turnover in R&D, which keeps the company's solutions innovative and unique.



Our Goals

We strive to create innovative and highly efficient electrotechnical solutions that improve energy efficiency, reliability and quality of power supply at any site.



Our solutions

Our solutions are used at over 100 locations in Russia and CIS.



Innovations

Every year, PitON invests up to 5% of its turnover in R&D, which keeps the company's solutions innovative and unique.



02 History of the company

PitON is one of the leading manufacturers of electrotechnical equipment on the Russian

2010

Launch of the first line of series F1 busduct systems.



2012

PitON received the award for its contribution to improving the energy efficiency of the region.

2011

The completion of 10 key projects.



2013

Launch of partnership program.



2014

Production capacity has been increased due to the opening of a manufacturing plant with a total area of 9000 m².



2015

Developed unique CR1 series busducts: fireproof, with the IP68 protection class.
Launch of UPS production.



2016

At the Open Innovations forum, PitON entered Russia's TOP-60 innovative projects.
Opening of Moscow and St. Petersburg offices.
Developed E3 series busduct.



2017

Participation in INNOPROM 2017 international exhibition.

2018

Production area increased to over 12000 m².
Launch of 3 new product lines.
Over 100 finished projects.
Opening of three new representative offices.
Developed A5, L1 and ET series busducts.



2019

Launch of Nizhnekamsk Technopark production facility.
Launch of CRM series busduct.



03

Production facilities



10000 meters

PitON produces 10 000 meters of busducts per month.



Our specialists are highly professional and have extensive experience in implementing projects of any complexity. We provide a full range of services, from design to supply of equipment, installation, and service for our clients.

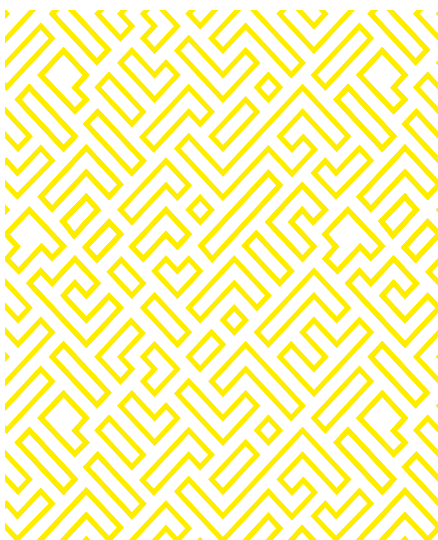


Our plant is equipped with the latest European equipment.

Our production technology allows us to manufacture products of the highest quality with exceptional electrodynamic and thermal resistance for cable runways of any configuration.



- R&D center
- Design and engineering department
- Profile extrusion production facility
- Sheet metal processing facility
- Assembly line and testing of finished products
- Service center
- Marketing and sales department



04 Services

PitON offers the following types of services:



Design

Design of busways or distributings busducts ranging from 25A to 7500A.



Consulting

Consulting on the design of power supply distribution systems and UPS.



Visit of a technical expert

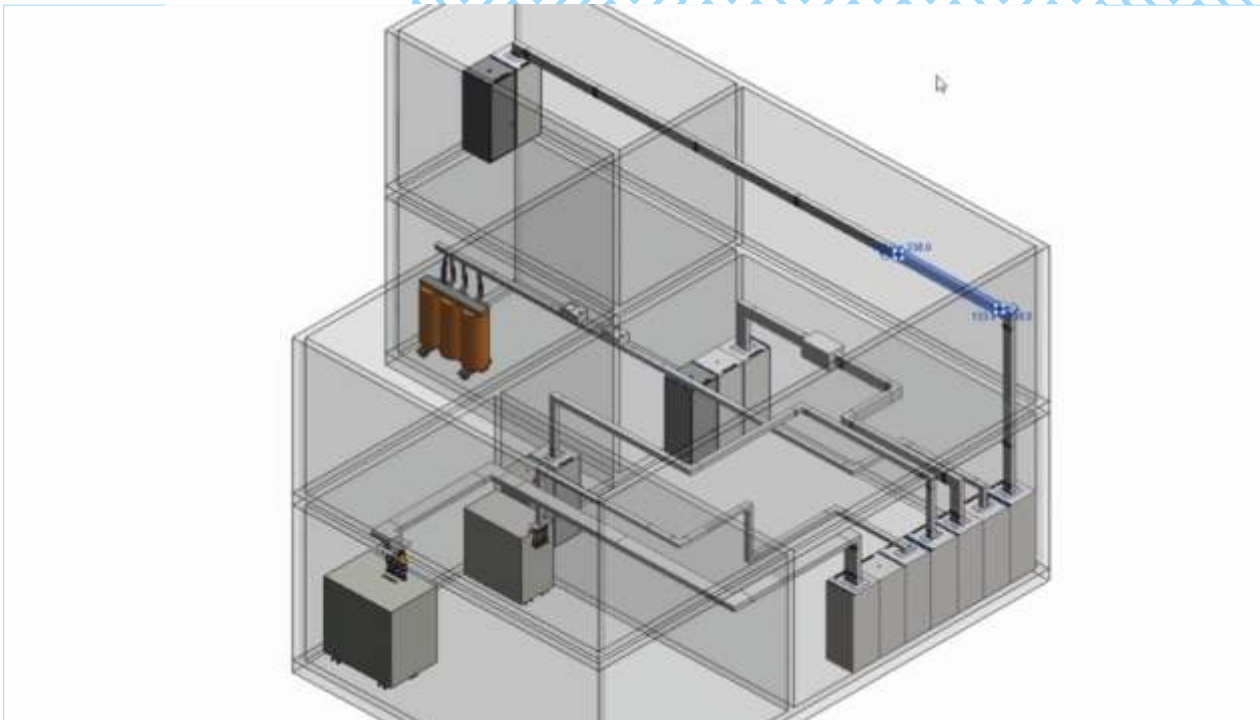
On-site visits and checks from our highly trained technical experts.



Training of design engineers

We conduct technical training for design engineers of our partners.





Documentation

We provide a 3D projection of the entire route, a detailed specification for all elements, and an assembly drawing.

Supervision

We provide installation supervision and we will recommend an experienced installation company.



05 Products

Busduct systems



E3 series



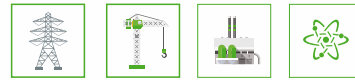
The E3 production range features compact and innovative busducts with enclosure construction produced from a specially designed aluminum alloy.

Features:

- High current range 400-600A
- Low voltage drop
- High short circuit currents
- Compound isolation
- Fireproof solution



CR1 series



The CR1 series is specifically designed for difficult production and climatic conditions. The E3 and CR1 series are complex and reliable power distribution systems, and an excellent example of a highly efficient power supply solution for all ranges from 630A to 6400A.

Features:

- Non-toxic self-extinguishing compound
- IP68 protection rating
- Chemical and corrosion resistance
- Fireproof construction with IEC 60331 circuit integrity standard (180 minutes)

Legend. Scope of application



Electrical networks



Construction



Industry



Nuclear industry





CRM series



The CRM conductor is a compact and highly secure solution, compared to conductors with air insulation, as it saves up to 30% of area. CRM construction is designed for voltage classes up to 35 kV and more.

Wide range of transmitted currents: from 1250A and up to 5000A. We will develop any nonstandard solutions based on your tasks and needs.



A5 series



The A5 series is a distribution busduct for connecting medium power consumers up to 400A.

Features:

- High protection class
- 2 options of enclosure material
- High mechanical resistance
- Up to 10 power take-off sockets





L1 series



The L1 series is a busduct for connecting power supply of low-voltage consumers for currents from 25A to 63A. The L1 series is mainly designed for power supply for lighting equipment located on long sections and lines.

Features:

- Ease of assembly
- Ease of modification
- Tap-off modules for regulating the load on the line.



LT series



The ET series is a conductor bar system used mainly in mobile power equipment such as cranes, assembly lines, conveyor lines, automated warehouses, ports, vertical transport etc.

Features:

- Temperature range from -30 to +55C
- 600V rated insulation voltage
- PVC enclosure with shock resistance



PitON UPS systems

The PitON UPS ensures uninterrupted operation of any equipment, regardless of the type and nature of the load. Our UPS systems feature modern implementations of semiconductor power electronics, voltage transformation technologies, and management systems. Scalability, efficiency, reliability, and manageability are the main criteria in the development of PitON UPS.



Line-interactive UPS systems are designed for use with PCs, monitors, video equipment, domestic appliances, communication systems, emergency lighting, and various payment terminals.

Features:

- AVR
- Wide range of input voltage
- USB port and other interfaces
- IEC 320, C13-C14 connectors
- LCD display
- Built-in batteries



On-line topology and double-conversion ensures a filtered sine voltage of the connected load with complete protection from current breaks.

Features:

- High efficiency factor and power factor 0.9
- Compact size
- Optimized internal space
- IBuilt-in RS-232 interfaces
- MOD-Bus, USB port
- IBuilt-in EPO





PT series 1-3 kVA

On-line topology and double-conversion ensures a stabilized sine voltage of the connected load and a complete absence of current breaks. The PT series UPS can be mounted in a rack or installed as a tower model.

Features:

- Built-in static bypass
- Built-in SmartSlot
- Built-in EPO
- ESD ports
- High efficiency factor
- Fan speed control



XM series 10-90 kVA

On-line topology and double-conversion ensures a stabilized three-phase sine voltage of the connected load and complete protection from current breaks.

Features:

- Color touchscreen
- Up to 7 units in parallel
- "Soft start function"
- Generator compatibility
- Dual power inputs
- Maintenance bypass



XT series 10-40 kVA

The XM series UPS provides three-phase sine voltage of connected loads. Two-in-one rackmount/tower UPS design.

Features:

- Battery management system
- Up to 7 units in parallel
- Generator compatibility
- "Soft start" function
- "Smooth start" function
- Dual power inputs
- UPS redundancy up to 30 units
- Maintenance bypass





The monoblock XM series UPS provides three-phase sinusoidal voltage of connected loads and a complete protection from current breaks.

Features:

- Dual power inputs
- Maintenance bypass
- Touch screen
- Up to 7 units in parallel
- Intelligent battery control and management system
- Matching transformer / Isolation transformer
- Matching/ insulating isolation transformers
- Can charge devices up to 50A



The XM series UPS are developed as a modular solution and can be used in parallel configuration.

Features:

- Up to 30 modules in parallel
- Up to 46 batteries
- External maintenance bypass
- Built-in and external isolation transformers
- Built-in RS-232 interfaces
- MODBUS
- Redundant auxiliary power supply
- Managing controls redundancyormers
- Charging devises up to 50A etc.



PitON engineers have developed unique UPS cabinets with support for a wide range of systems, scaling from 10 kVA up to 4 MW.

Among the advantages: high power efficiency, an increase in useful areas, a turnkey solution, wide DC range, support for all communication protocols, built-in batteries.



Cable trays



Cable supporting systems

The LP straight tray is used on straight sections of the cable duct.



Stairs tray HP

We use the clenching process to preserve the zinc layer during assembly.



Linear stairs tray SPL

A ladder tray is used for supporting high volume or heavy cabling, especially if there are long spans between supports.



06 Examples of implemented projects

Busduct systems



Kalashnikov Group
400A-2500A busducts and busways

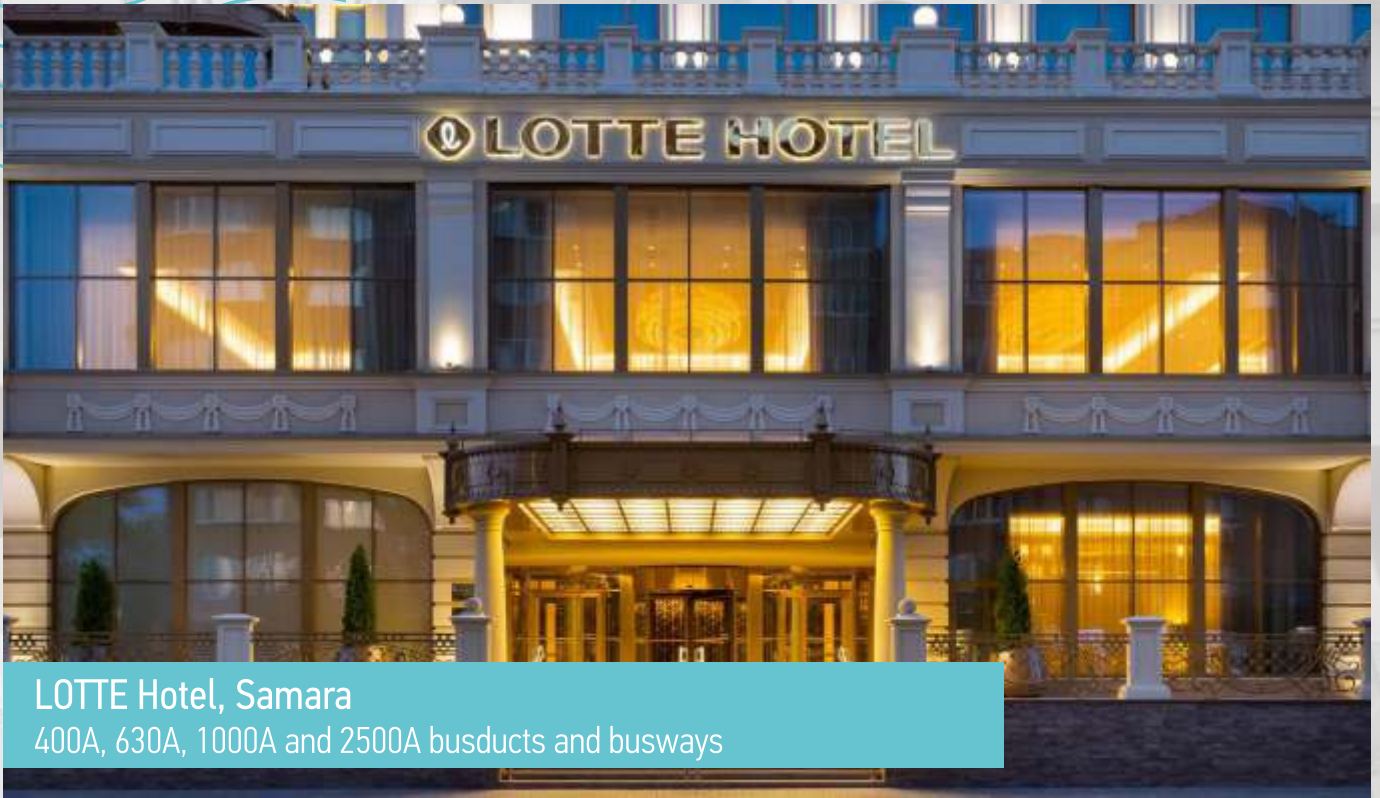




IEC Yekaterinburg-EXPO
6300A and 2000A busways









COSMOS shopping mall, Chelyabinsk
2500A busway





LENTA, Yekaterinburg
2000A and 1600A busways





Makarovsky Residential Complex, Yekaterinburg
3200A, 2000A, 1600A and 1000A busducts





Kandinsky Residential Complex, Yekaterinburg
2000A busway





Pekin Mall, Yekaterinburg
3200A, 2000A and 1000A busways and busducts





Krylov State Research Center
4000A busway



Krylov Residential Complex, Yekaterinburg
400A and 2500A busducts





Iskra Mall, Perm
630A and 2500A busducts

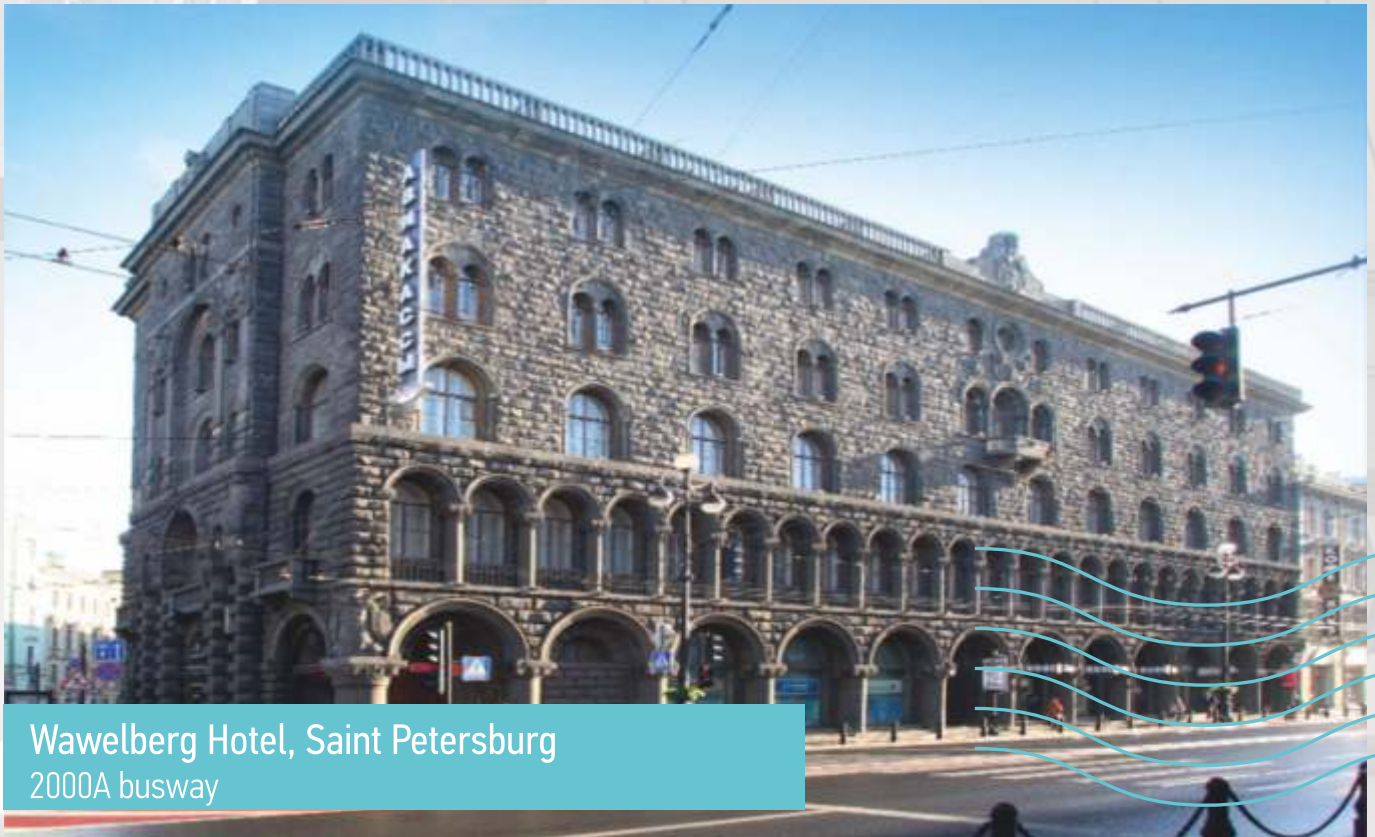


LIVE Botanic Garden Residential Complex, Moscow
630A, 800A, 1000A and 1250A busways





Aquamarine Business Centre, Moscow
5000A busduct



Wavelberg Hotel, Saint Petersburg
2000A busway





KSC Industrial Park, Tver
E3 busduct (630A), E3 busway (4000A)



Grinvich Mall, Yekaterinburg
E3 busduct (630A)





Skolkovo Institute of Science and Technology, Moscow
E3 busway (630A, 1600A)



BIOCAD Pharmaceutical Plant, Zelenograd
Cr1 busway (4000A), E3 busduct (3200A, 1600A)





RaMus Mall, Nizhnekamsk
1000A, 1250A and 1600A busducts



Corall, Agricultural and industrial complex, Bezhetsk
4000A busway



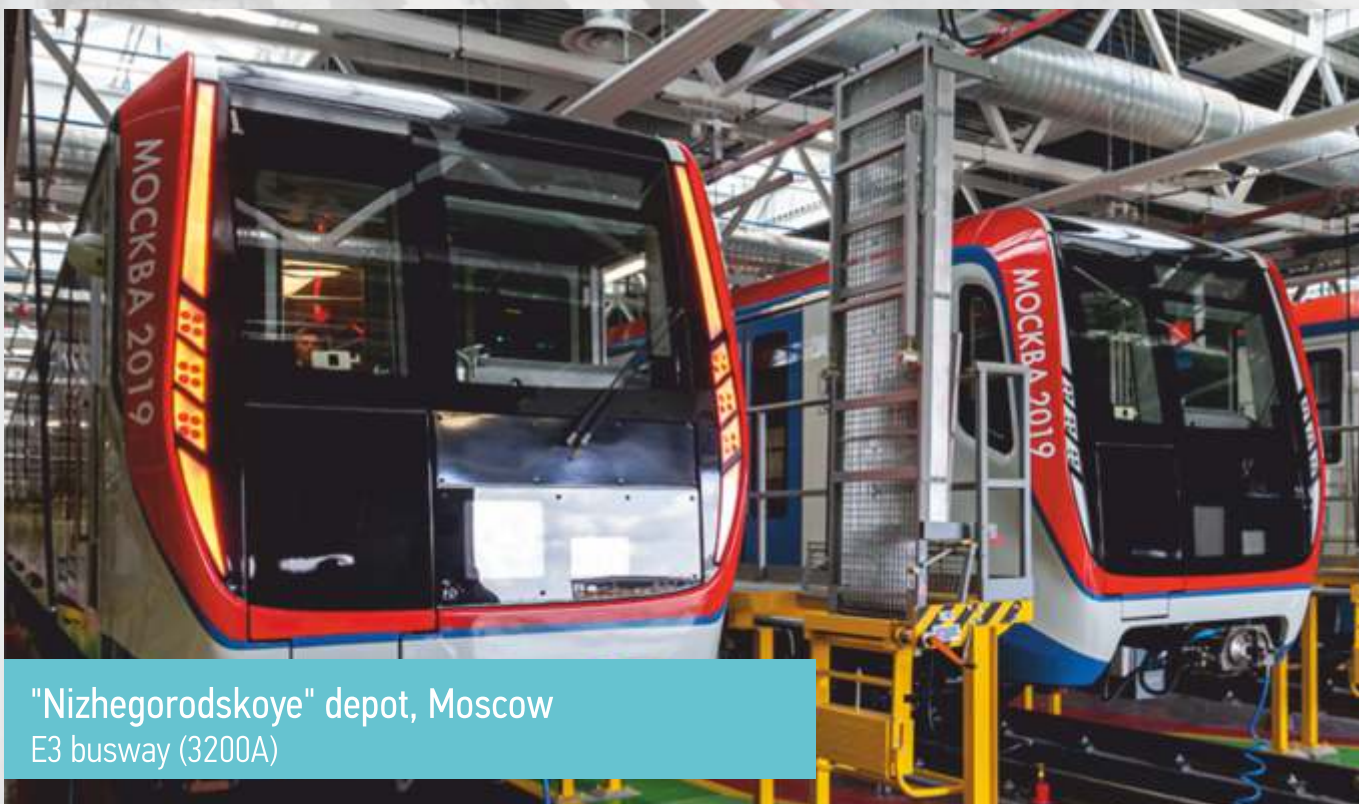


Gazprom Neft, Tazovsky field
Tazovsky field

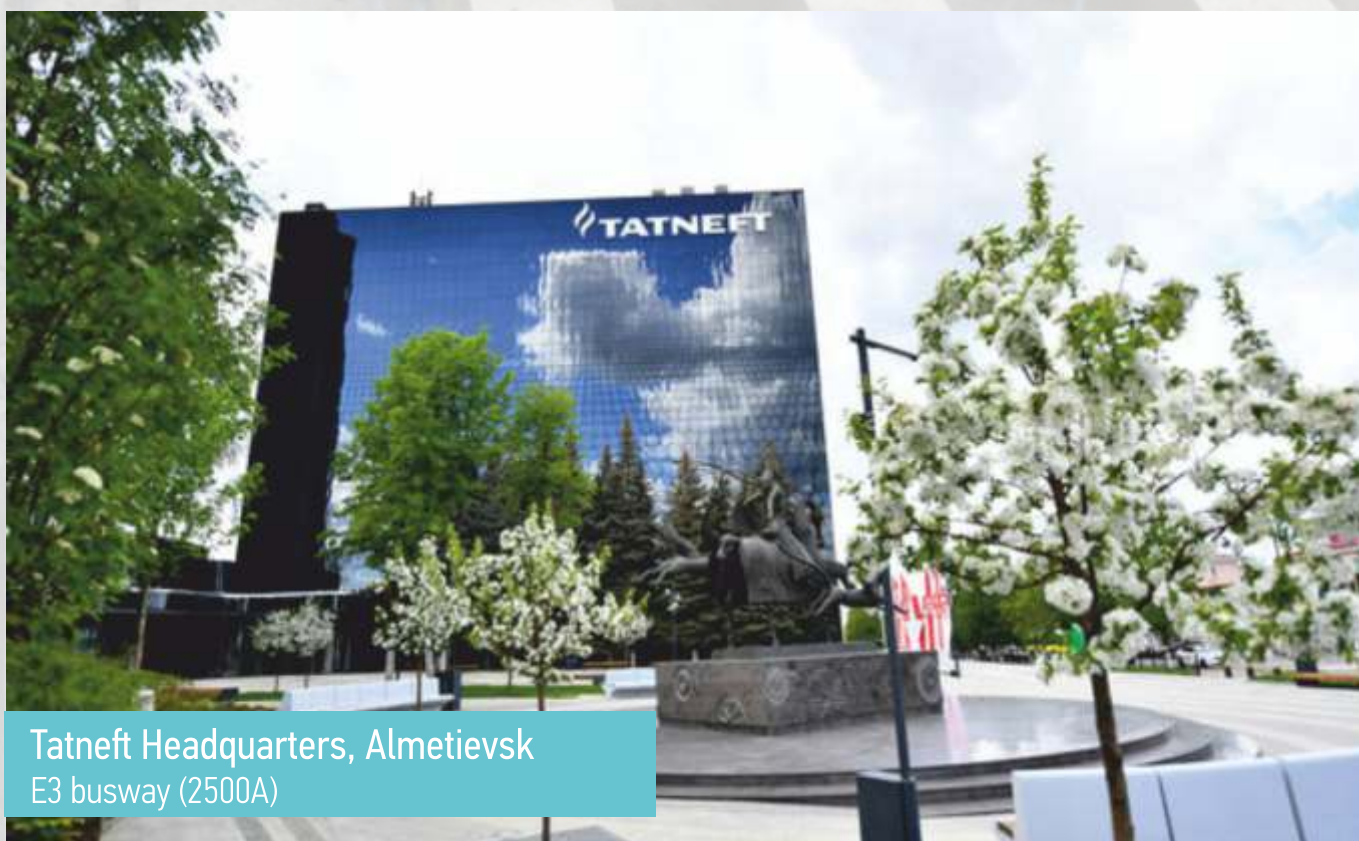


Tver Carriage Works, Tver
E3 busduct (630A)





"Nizhegorodskoye" depot, Moscow
E3 busway (3200A)



Tatneft Headquarters, Almetievsk
E3 busway (2500A)





Kazanorgsintez, Kazan
Busbar bridge (800A)



NLMK, Lipetsk
1600A busway



Implemented UPS projects

PitON UPS systems and UPS cabinets are used at the Yekaterinburg Arena facilities.



PitON UPS systems are used at Congress Hall of IEC Yekaterinburg-EXPO and protect various sectors, including presidential area, FSO, FSB, emergency lighting, stage systems, and more.



PitON UPS systems are used at the Gazprom Neft facilities in Orenburg.



The PitON UPS project has been implemented at the IPF SibNA facilities in Tyumen.



PitON UPS systems protect the emergency lighting of The State Hermitage Museum in Saint Petersburg.



PitON UPS systems are used by the top companies of the oil and gas industry.



07 Memberships and achievements

At the Open Innovations forum in Skolkovo, PitON entered Russia's TOP-60 innovative projects.



PitON is a member of the Energy Committee of the Sverdlovsk Region and a constant participant in meetings held by the Sverdlovsk Regional Union of Industrialists and Entrepreneurs.



Свердловский областной
Союз промышленников
и предпринимателей

PitON is a member of the chambers of commerce and industry of the Sverdlovsk region and the Russian Federation and resident of the Union of Construction Industry of the Sverdlovsk Region.



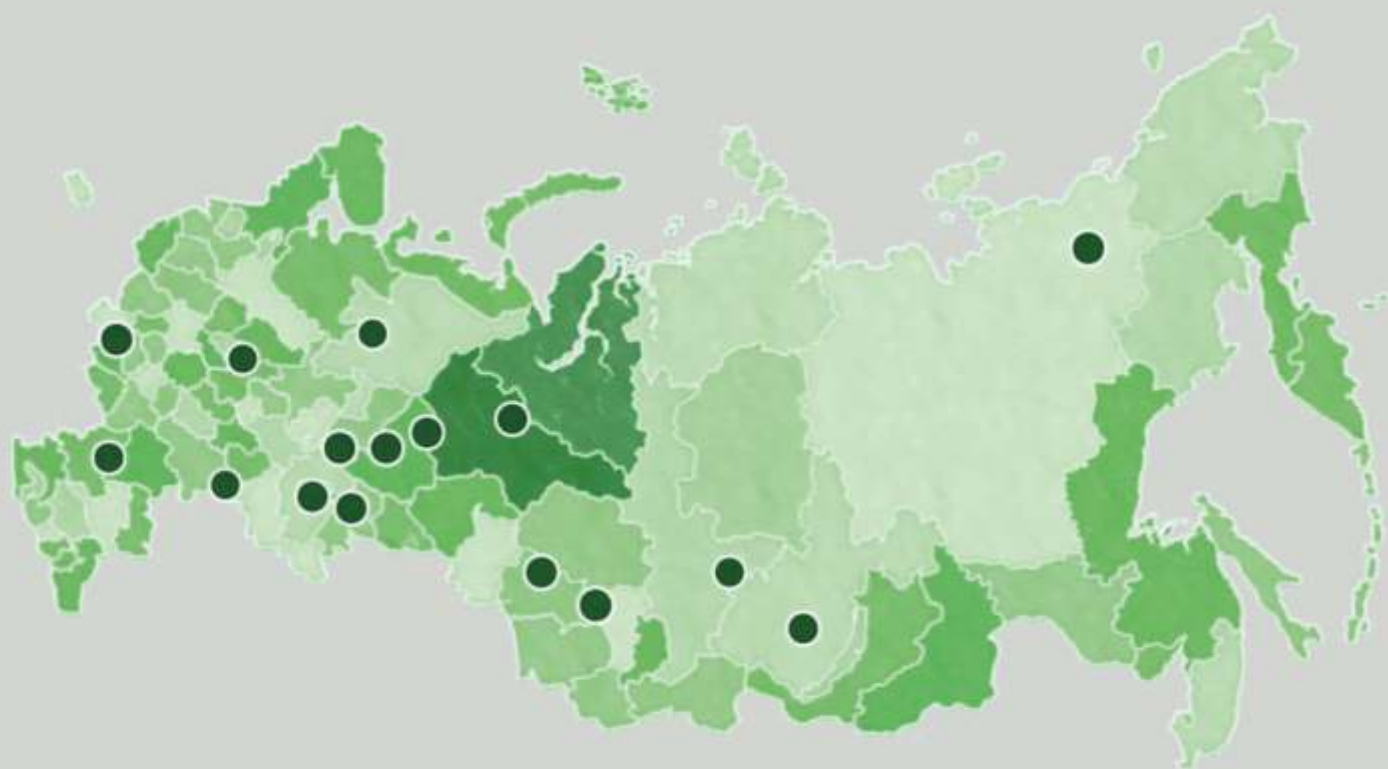
Торгово-
промышленная
палата
Российской
Федерации



PitON has received the award "For contribution to the improvement of energy efficiency in the Western Urals".



08 Sales Geography





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