





PJSC "Rivneazot" is the leading producer of mineral nitrogen fertilizers in Western Ukraine.

"Rivneazot" products are well-known in Ukraine and exported to more than 40 countries around the globe (the European Union, Africa, Asia, and CIS).

Nitrogen fertilizers ammonium nitrate and calcium ammonium nitrate produced by PJSC "Rivneazot" became the winners on national contents many times. The products were awarded "The best domestic product", "100 best goods of Ukraine" in nomination "Industrial and technical products", "Product beyond comparison" at the National Sorochinskaya Fair.

Furthermore, PJSC "Rivneazot" is recognized globally and receives international awards regularly.

The most famous are "Products' Technology and Quality" (Germany) and "For Trade mark" (Italy).

The enterprise was rated in "Top-100. The best companies of Ukraine" according to the activity results over the last few years. On regular basis PJSC "Rivneazot" hosts international industrial conferences and seminars.

In accordance with Cabinet of Ministers of Ukraine resolution PJSC "Rivneazot" was listed among the enterprises of strategic importance.

Since 2011 the plant has become a part of OSTCHEM group.



In March 1969 the first enterprise of chemical industry in Polesie stared operating. It was Rovenskyy plant of the mineral fertilizers production. Today it is Ukrainian chemical giant with its history, labour achievements and prospects.

PJSC "Rivneazot" primary focus is production of fertility granules to raise the crop yield of Ukrainian fields as well as implementation of measures aimed at efficiency growth at the operating production sites, equipment modernization, improvement of goods quality and its assortment widening.

The enterprise manufactured millions tonnes of mineral fertilizers, adipic acid and other industrial and technical products. Over the years PJSC "Rivneazot" passed the hard way of formation and development. Today the employees are proud of the progress and achievements that were recognized by the national and global contests' awards.

It became possible owning to conscientious work of all the enterprise's departments and productive collaboration of the owners, headquarters and the plant's top management.

Mikhail Zabluda

PJSC "Rivneazot" Chairman of the Board







Ammonia warehouse and non concentrated nitric acid shop (2008)

The idea of the mineral fertilizers enterprise foundation in the western region of Ukraine appeared in the mid-1960s. On 31 March, 1969 the State Commission signed the operational acceptance report of ammonia and ammonia water production. It is considered to be Rivne mineral fertilizers plant's foundation date. However, before this date the plant had already experienced a range of significant events. In 1967 after motorway and railway that connected the future plant and the city had been built ammonia water site was put into operation (currently ammonia shop-1). Moreover, the construction of new buildings at ammonia shop-2 started. Manufacturing capacity of liquid ammonia production was 103 000 tonnes per year. Along with ammonia water shop launching there was founded the technical control department. In 1968 it was the small laboratory. Over the years the raw materials and products control service has enlarged considerably.



Construction of water chemical preparation sites (1984)

Plant management (1973)





Since 1969 the new auxiliary shops of water supply and sewerage, railway, electricity and central plant laboratory started operating. The plant was developing and becoming more powerful. The production program was realized and at the same time new production shops were built. The construction of non concentrated nitric acid and ammonium nitrate shops began; they were launched in December, 1972. There was one more labour achievement: according to the activity results of 1972 the plant became profitable. Since then the plant symbol, chemical flask is the integral part of Rivne emblem.

In the end of 1983 the organic production of adipic acid was put into operation.



Oraanic Production Units (1985)



Organic Production Sites (2002)





The following years were accompanied with successful development as well as challenges and crises. Since the 1990s and up to the privatization process finalization the enterprise suffered hard times.

September. 2003 became a new milestone in "Rivneazot" history. After the privatization process finalization the new owner appropriated significant funds to the enterprise development. The investments allowed realizing capital repairs in all the shops, modernizing equipment and helped lead the plant out of economic crisis. The allocated funds contributed to new kinds of fertilizers production, first of all calcium ammonium nitrate. Today PJSC "Rivneazot" is the leader in this sort of fertilizers manufacturing.

In 2011 the plant became a part of OSTCHEM Group DF.



Contemporary plant

The central control panel of adipic production management (2003)



Owning to high production standard, well-qualified employees, steady equipment modernization as well as automatization and computerization of manufacturing processes PJSC "Rivneazot" holds a remarkable place in the industry of Ukraine and is competitive with many foreign chemical enterprises.

PJSC "Rivneazot" produces mineral fertilizers (ammonium nitrate, calcium ammonium nitrate, ammonia, fertilizer mixture "Rovno-NPK"), organic products (adipic acid, cyclohexanol, cyclohexanone, low dicarboxylic acids, cyclohexanol distillation residue) as well as other products (non concentrated nitric acid, carbonic acid, oxygen gaseous technical, solid carbon dioxide (dry ice), liquid nitrogen).

The enterprise territory covers about 890 hectare.

PJSC "Rivneazot" consolidates 6 main engineering and 14 auxiliary producing shops.



Main capacities

Liquid ammonia

420 000 tonnes per year

Ammonium nitrate granulated



540 000 tonnes per year

Calcium ammonium nitrate (CAN)



450 000 tonnes per year

Adipic acid



25 000 tonnes per year

Main production shops

Ammonia production

production

Ammonium nitrate production

Calcium ammonium nitrate

Organic production Steam and boiler shop

Electricity supply shop

Energy equipment repair shop

Auxiliary shops

Monitor and measure equipment and automation shop

Water supply and sewerage shop

Water chemical preparation shop

Railway shop

Transport shop

Rivne industrial and household effluents neutralization and purification shop

Repair and construction shop

Repair production

Economic activities shop

Communication shop

Warehousing shop

Ammonia shop No.1

The shop produces aqueous ammonia, solid carbon dioxide (dry ice), carbonic acid, oxygen gaseous technical, liquid nitrogen). The first aqueous ammonia was manufactures in November, 1968.

Ammonia shop No.2

The shop was put into operation in 1973 and produces synthetic ammonia.

Non concentrated nitric acid shop

Non concentrated nitric acid

The shop produces non concentrated nitric acid. Two nitric acid sites with production capacity of 120 000 tonnes per year were put into operation in 1972 and six more sites started operating in the period 1974–1984.

Ammonium nitrate shop

The shop produces ammonium nitrate containing 34% of nitrogen. Complex mineral fertilizers

production

The complex phosphate fertilizer production was renovated. The reconstruction allowed manufacturing calcium ammonium nitrate which is a new product in Ukraine. This is the first large-tonnage production in Ukraine.

AK-1 – AK-5 shops

It consists of two main shops producing cyclohexanol, cyclohexanone and adipic acid and the shops manufacturing subsidiary materials such as sodium hydroxide as well as goods made of residual products that is purified low dicarboxylic acids.

Main products

Nitrogen fertilizers

| Product | Standard | | |
|---|-----------------------------|--|--|
| Ammonium nitrate | DSTU 7370:2013 | | |
| Aqueous ammonia technical | GOST 9-92 | | |
| Calcium ammonium nitrate (CAN) | TU U 24.1-05607824-041-2004 | | |
| Fertilizer mixture "Rovno-NPK" | TU U 24.1-05607824-044-2007 | | |
| Liquid ammonia technical (anhydrous ammonia) | GOST 6221-90 | | |
| Urea | GOST 2081-92 | | |

Organic products

| Product | Standard |
|---|------------------------------|
| Cyclohexanol distillation residue (CDR) | TU UA 24.1-05607824-052:2010 |
| Cyclohexanone light fraction (CLF) | TU UA 24.1-05607824-051:2010 |
| Cyclohexanone technical | GOST 24615-81 |



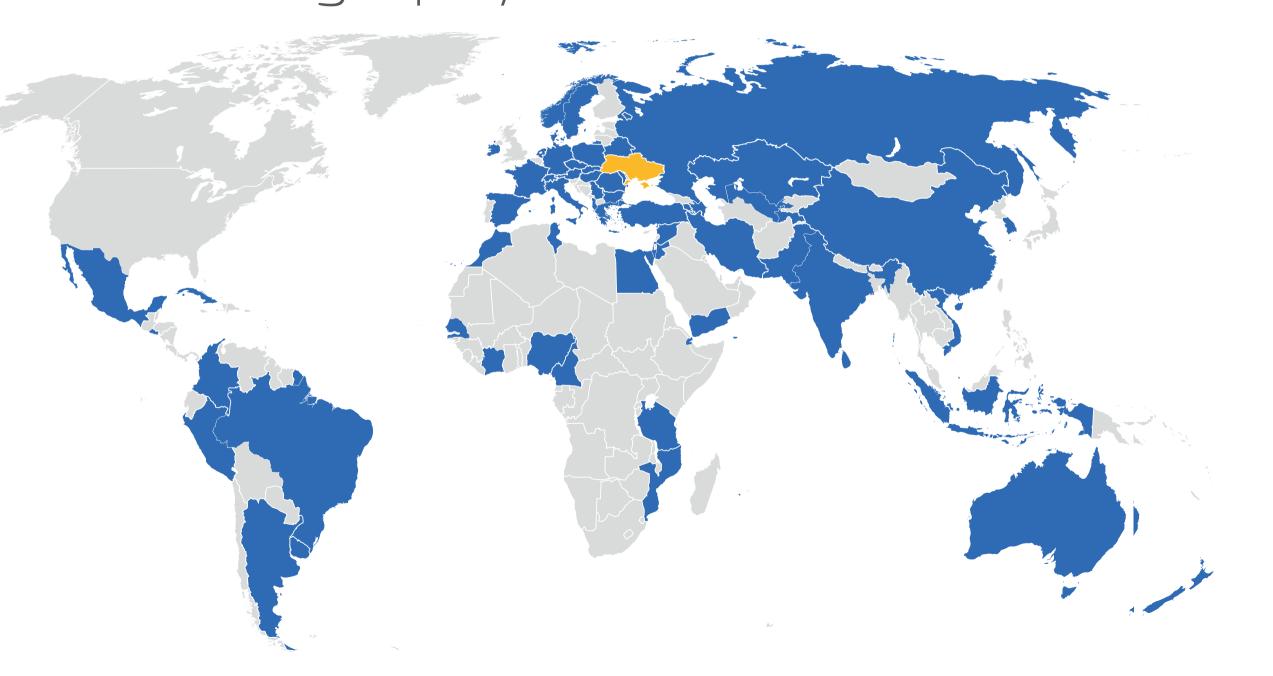


Gases

| Product | Standard |
|--------------------------------|---------------------|
| Liquefied carbon dioxide | DSTU 4817:2007 |
| Nitrogen liquid | DSTU GOST 9293:2009 |
| Oxygen gaseous technical | DSTU GOST 5583:2009 |
| Solid carbon dioxide (dry ice) | GOST 12162-77 |

Acids

| Product | Standard |
|---------------------------------|-----------------------------|
| Adipic acid | GOST 10558-80 |
| Low dicarboxylic acid (mixture) | TU U 24.1-05607824-045:2007 |



More than 40 countries worldwide (the EU, Africa, Asia, CIS) as well as twenty three regions of Ukraine and Autonomous Republic of Crimea use Rivne mineral fertilizers.

Tanzania

Turkey

Ukraine

| Australia | Georgia | Malaysia |
|--------------------|-----------|-----------------|
| Austria | Germany | Mexico |
| Argentina | | |
| | Hungary | the Netherlands |
| Belarus | | New Zealand |
| Belgium | India | Nigeria |
| Brazil | Indonesia | |
| | Iran | Pakistan |
| China | Ireland | Poland |
| the Czech Republic | Israel | |
| | Italy | Romania |
| Denmark | • | Russia |
| | Kenya | |
| gypt | | Slovakia |
| | Latvia | Slovenia |
| rance | Lithuania | Spain |
| | Livan | Switzerland |
| | | |
| | | |



The quality management system covers all stages of the product life cycle — from its production to service and customer support.

Centralized department of technical control is responsible for products quality. This department represents its own developed enterprise quality control system.

Quality management, standardization, certification and supervision bureau in REACH sphere develops and implements the enterprise new standards, technical terms and other documents on standardization and certification and revises the current ones. It also contributes to improvement of quality and competitiveness of products and service through standardization methods.

Moreover the bureau monitors and analyses the EU new chemical legislation REACH as well as organizational and methodic instructions on the legislation requirements implementation.

The bureau controls the enterprise's performance regularly to provide its compliance with the science and technology level, market needs and export demand.

Vladymyr Kovalenko, the deputy chairman of the board and the chief engineer leads all the production departments. The rest of the work is divided into segments headed by the managers according to the directions.



The main direction in the enterprise activity is implementation of measures aimed at efficiency increase at the operating production sites, equipment modernization, improvement of products quality and its assortment widening.

main products realization sum in 2012

taxes paid by the enterprise in 2012



Main products manufacturing

| 2010 | 2011 | 2012 | Total over the period 2010–2012 |
|---------|---|---|---|
| 69 369 | 75 625 | 61 974 | 206 968 |
| 519 346 | 527 716 | 549 424 | 1 596 486 |
| 353 917 | 419 249 | 323 162 | 1 096 328 |
| 411 653 | 428 303 | 396 279 | 1 236 235 |
| 650 056 | 706 174 | 649 959 | 2 006 189 |
| 19 832 | 29 116 | 12 742 | 61 690 |
| 19 366 | 27 878 | 12 168 | 59 412 |
| 313,940 | 275,380 | 222,606 | 812 |
| 1,53 | 6,73 | 5,46 | 14 |
| 285,023 | 374,604 | 448,806 | 1 108 |
| 70,04 | 67,86 | 52,58 | 190 |
| 981 | 1 377 | 605 | 2 964 |
| | 69 369 519 346 353 917 411 653 650 056 19 832 19 366 313,940 1,53 285,023 70,04 | 69 369 75 625 519 346 527 716 353 917 419 249 411 653 428 303 650 056 706 174 19 832 29 116 19 366 27 878 313,940 275,380 1,53 6,73 285,023 374,604 70,04 67,86 | 69 369 75 625 61 974 519 346 527 716 549 424 353 917 419 249 323 162 411 653 428 303 396 279 650 056 706 174 649 959 19 832 29 116 12 742 19 366 27 878 12 168 313,940 275,380 222,606 1,53 6,73 5,46 285,023 374,604 448,806 70,04 67,86 52,58 |

Main products realization

| Product | 2010, UAH | 2011, UAH | 2012, UAH | Total over the period 2010-2012, UAH |
|--------------------------------|---------------|---------------|---------------|--------------------------------------|
| Aqueous ammonia technical | 59 225 057 | 81 542 736 | 86 882 112 | 227 649 906 |
| Ammonium nitrate | 877 109 668 | 1 201 557 904 | 1 366 914 562 | 3 445 582 134 |
| Calcium ammonium nitrate | 512 857 861 | 791 125 338 | 648 089 937 | 1 952 073 137 |
| Liquid ammonia technical | 86 155 975 | 88 897 823 | 83 819 006 | 258 872 804 |
| Nitric acid | 58 713 | 72 024 | 80 018 | 210 754 |
| Adipic acid | 134 106 764 | 221 297 184 | 124 880 272 | 480 284 220 |
| Cyclohexanone | 22 399 892 | 43 210 340 | 38 925 305 | 104 535 537 |
| Liquefied carbon dioxide | 335 473 | 372 403 | 341 354 | 1 049 230 |
| Solid carbon dioxide (dry ice) | 4 030 | 30 790 | 24 980 | 59 799 |
| Nitrogen liquid | 181 194 | 272 864 | 336 605 | 790 662 |
| Oxygen in gas cylinders | 157 976 | 166 026 | 99 275 | 423 277 |
| Low dicarboxylic acid | 4 334 365 | 10 338 335 | 5 849 911 | 20 522 612 |
| Total | 1 696 926 967 | 2 438 883 768 | 2 356 243 337 | 6 492 054 072 |





175 **UAH** million

179 **UAH** million

The following investment projects were realized in 2013:

restoring two sites of non concentrated nitric acid;

converting ammonia production to the innovative Distributed Control System;

constructing a new up-to-date non concentrated nitric acid

warehouse.





PJSC "Rivneazot" is proactive in both chemical industry development and social sphere improvement.

The enterprise supports preschool and school institutions, medical and health-improving centers, religious organizations and state establishments.

The enterprise social initiatives cover the acquisition of equipment and ambulance cars for medical facilities, periodicals subscription for educational institutions as well as categorical assistance to boarding schools and cloisters.

PJSC "Rivneazot" spent on charity programs in 2012

in line with a program "Save your city" was invested in the roads repair in 2012–2013

was allocated to employees' social support in 2012



PJSC "Rivneazot" corporate policy meets social needs of the employees. In 2012 along the personnel's social support made up 2.3 UAH million.

The assistance was directed to military forces conscripts, mothers giving birth and large families, the enterprise's employees who need medical treatment as well as to those who resign or retire.

By the International Women's Day the bonus was given to the employed women and women who are veterans of the plant and unemployed pensioners now. The financial aid was also provided to the former employees of the enterprise who are the Great Patriotic War participants.





Environment protection is a key focus in current manufacturing activity and further production facilities development.

Environment protection department realizes environmental monitoring and controls the observance of legislation at PJSC "Rivneazot". Every year the department employees develop and implement the integrate complex of the initiatives directed to the environment preservation. This plan is approved by the plant's chief engineer and agreed with the representative of the local self-governing. The concerted document provides for the measures on protection and efficient water, air and land resources consumption. Seventeen environmental projects were realized at PJSC "Rivneazot" in 2013.

Besides this joint program every shop develops and coordinates with environment protection department the local initiative plan aimed at environmental preservation.

PJSC "Rivneazot" realizes all the projects on environment protection in accordance with "Responsible care of the chemical industry of Ukraine". It is a part of common environmental policy of all OSTCHEM group's enterprises that joined the Responsible Care Global Charter.

was spent by PJSC "Rivneazot" on environmental projects in 2013



Today the enterprise employs more than 4 000 people. There are 2 800 workers among them. 27% have university degree. The average personnel age is 44.8.

employees were awarded "Veteran of Labour" medal.

The enterprise management pays considerable attention to personnel recruitment, placing and training. PJSC "Rivneazot" has its own educational center to organize employees' special training, young specialists' apprenticeship and work practice of vocational schools and university students.

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