
INDUSTRIAL PARK
"KOSTANDOV"
ARMENIA
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ARMENIA

An international industrial park "KOSTANDOV" is being created in the Republic of Armenia

The KOSTANDOV Industrial Park is an important step in the development of Eurasian economic integration in the era of global challenges and the creation of a barrier-free, single market in the EAEU

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Park area – 75 hectares
Location – Republic of Armenia, Vanadzor

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The enterprises of the park will produce and supply chemical and pharmaceutical products

The enterprises of the park will be able to use raw materials, intermediate products and equipment, including high-tech, from leading manufacturers from all over the world for production without any restrictions on the subsequent sale of manufactured products





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The implementation of the Armenian Government's "Crossroad of Peace" establish a route from the Persian Gulf to the Black Sea through the territory of Armenia. This will significantly enhance the region's transport and logistics capabilities and strengthen trade and economic ties between the interested states.

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INDUSTRIAL PARK SPECIALIZATION:

Placement of production facilities of the chemical and related industries, consumers of large-tonnage products of a cluster-forming enterprise

LIST OF COMMUNICATIONS:

- Highways
- Railway infrastructure
- Electricity
- Gas supply
- Thermal energy
- Water supply
- Drainage

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Industrial park enterprises

- Ammonia production: capacity up to one million tons per year
- Urea production
- Production of ammonium nitrate
- Nitric acid production
- Production of granular forms of fertilizers

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Perspective productions

- Methanol production
- Formaldehyde production
- Formic acid production
- Production of phenol-formaldehyde resins
- Melamine production
- Other

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Fertilizer production

- Ammonium nitrate
- Urea
- UAN (urea-ammonium mixture)
- NPK complexes
- Others

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CONDITIONS OF ACCOMMODATION ON THE TERRITORY:

Brownfield
Production and laboratory premises

Greenfield
Construction sites provided with all necessary engineering and transport infrastructure

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Key Stages of a Gas-Chemical Plant Project

1. Project Team Formation and Initiation (3-6 months)

Goal: Establish a team, define project objectives, and develop an implementation strategy.

- Forming the core team (project manager, engineers, economists, legal experts).
- Identifying key partners (EPC contractors, equipment suppliers, government agencies).
- Creating a project roadmap and preliminary timeline.
  Conducting an initial investment feasibility assessment.

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Key Stages of a Gas-Chemical Plant Project

2. Feasibility Study (FS) and Concept Development (8-18 months)

Goal: Determine project viability, select technology, and assess financials.

- Analyzing raw material availability (natural gas, auxiliary materials).
- Evaluating market demand (urea, ammonium nitrate, soda ash). Selecting technology and licensors (KBR, ThyssenKrupp, Casale, Haldor Topsoe, CNCEC).
- Initial calculation of CAPEX and OPEX, payback period assessment.
- Developing a financial model (NPV, IRR, Payback).
- Conducting environmental and technical assessments.
- Securing preliminary financing from investors and banks.

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Key Stages of a Gas-Chemical Plant Project

3. Engineering Design and Permitting (12-24 months)

Goal: Obtain all permits and finalize plant design.

- Engineering design of technological processes (flowsheets, material & energy balances).
- Developing a general site plan and utility infrastructure layout.
- Securing government approvals (environmental impact assessment, zoning, utilities).
- Signing agreements with technology licensors and EPC contractors.
- Finalizing investment decisions and securing full project funding.

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Key Stages of a Gas-Chemical Plant Project

4. Equipment Procurement and Site Preparation (12-24 months)

Goal: Ensure equipment supply and prepare the site for construction.

- Procuring key equipment (reactors, compressors, heat exchangers).
- Preparing construction site (earthworks, utility connections).
- Organizing logistics for large industrial components.
- Contracting a general contractor for construction activities.

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Key Stages of a Gas-Chemical Plant Project

5. Construction and Equipment Installation (24-36 months)

Goal: Build the plant and install process equipment.

- Constructing buildings and infrastructure.
- Installing machinery and process units.
- Connecting to energy sources (gas, water, electricity, steam).
- Conducting equipment tests and calibration.
  Training operational staff and engineers.

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Key Stages of a Gas-Chemical Plant Project

6. Commissioning and Start-up (6-12 months)

Goal: Launch production and fine-tune all processes.

- Conducting cold and hot commissioning for all plant units.
- Producing first test batches of products (ammonium, urea, ammonium nitrate, etc).
- Optimizing technological processes and resolving start-up issues.
- Signing final acceptance certificates with contractors.

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Key Stages of a Gas-Chemical Plant Project

7. Full-Scale Operations and Expansion (Ongoing Process)

Goal: Achieve full capacity and optimize economic performance.

- Scaling up to design production capacity.
- Optimizing energy consumption and logistics.
- Developing new sales markets and export strategies.
- Possible expansion of production (new units, additional products).

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Key Stages of a Gas-Chemical Plant Project

Total Project Timeline

Minimum (Optimistic Scenario): 6-7 years.
With Financing/Regulatory Delays: 7+ years.

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www.kostandov.am

info@adkars.am

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