No alternative to PPP schemes in the water and sanitation sector in Russia

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Implementation of PPP projects in Russia by industry

At the moment, there are about 300 PPP projects underway in Russia

The percentage of PPP projects in Russia by industry, %

According to the World Bank

According to the Ministry of Economic Development
Background for the implementation of PPP projects in wastewater sector in Russia

«About 60% of fixed assets (in the housing and utility sector) have served their term of service. This means a high accident rate, transmission and distribution losses, enormous operational costs. Available funds are being spent to keep the system operational, and little capital is available for the modernization of the system. This may well be one of the major challenges that we have to face»,

Chairman of the Government of the Russian Federation Dmitry Medvedev.

Federal Target Program «Chistaya voda» 2011 – 2017

Program Objectives:

- Creation of favorable conditions for attracting long-term private investments in water supply, disposal and sewerage projects by improving the legislation of the Russian Federation in the PPP sphere and in the tariff regulation for long-term tariff formation in housing and utility sector.
- Modernization of water supply, disposal and sewerage systems by supporting Russian Federation subjects in their programs aimed at the development of the above-mentioned water and wastewater systems.

Funding for the program

- Non-budgetary sources, $8.5 bn.
- Funds of the consolidated budget of the Russian Federation subjects, $250 m.
- The federal budget, $250 m.

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Public-private partnership is the tool for the development of wastewater infrastructure

CHALLENGES TO LOCAL AND CENTRAL GOVERNMENTS

- Insufficiency of budget funds and widening of budget deficit
- Disparity between the level and rate of development of public infrastructure on one hand, and consumer demand and overall economic growth on the other
- Insufficient qualifications of some employees of state-funded organizations
- Lack of effective incentives for employees to improve quality of their work
- Lack of up-to-date technologies, equipment, machinery, etc

INTEREST OF THE PRIVATE INVESTOR

- Commitment to the standards and criteria of high operational performance
- Guarantees provided by the executive branch of the government of the minimal profitability, partial or full refund in case of the failure of the project
- Utilization of personal experience and professional expertise in achieving objectives set by municipalities
- Realization of long-term projects with the benefit of a stable market
- Administrative and political assistance in the implementation of PPP projects, risk-sharing with the executive authorities
### Wastewater disposal

A comparison of organizational and legal arrangements

<table>
<thead>
<tr>
<th>BOLT</th>
<th>Concession</th>
<th>Rent with investments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>New construction only</strong></td>
<td><strong>New construction is possible as well as reconstruction (modernization)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ownership</strong></td>
<td><strong>Operation</strong></td>
<td><strong>Features of the models</strong></td>
</tr>
<tr>
<td>Private</td>
<td>Authorized municipal company</td>
<td>Units to be constructed form a separate property complex. New private investor</td>
</tr>
<tr>
<td>State</td>
<td>Private investor</td>
<td>Implementation of the project is based on an existing property complex. Current private investor</td>
</tr>
</tbody>
</table>

#### The source of return on investment for the private investor

- **BOLT:** Lease-redemption payment
- **Concession:** Tariff revenue

The law does not prohibit a private investor from owning wastewater facilities. Structuring of tenders for the selection of private investors as well as closing deals is done based on the regional law «On participation of subjects in PPP», Civil code of Russia.

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Experience of successful implementation of PPP projects in Russia
Southwest waterworks (Moscow)

Southwest waterworks were built based on the BOOT legal scheme. The main objectives are the improvement of potable water quality, reduction of risks to public health and provision Moscow with sustainable water supply. Investments totaled 7.4 bn rb.
Experience of successful implementation of PPP projects in Russia

Development of water and sanitation sector in Rostov-on-Don

**Municipal Unitary Enterprise «Vodokanal»** was converted to a joint-stock company without infrastructure and incorporated into a joint venture of the municipality and the private investor, selected on a competitive basis.

**OJSC «PO Vodokanal»** is a specially created operating company which operates water and sanitation infrastructural objects in Rostov-on-Don. The company provides its services to consumers under 25-year lease.

**Property rights:**
- Municipal infrastructure is under long-term lease to Vodokanal;
- The new infrastructure built at the investor’s expense remains investor’s property and is leased to Vodokanal. At the end of the contract of lease, it is transferred to the city at residual cost;
- The new infrastructure built at the expense of the city’s budget is a property of the city and also is a subject of a long-term lease.

**Value of the project:**

**Source of refund:** Tariff revenue.

**Project’s objective:**
- Construction of new water supply and sanitation facilities;
- Modernization of the existing facilities;
- Expansion of centralized water supply in rural areas and improving quality of water and sanitation in these areas.

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**Organizational chart**

**Investment agreement concluded as part of the investment project «Integrated program of construction and reconstruction of water supply and sanitation facilities in Rostov-on-Don»**

**City of Rostov-on-Don**

**Lease agreement of water supply and sanitation facilities**

**OJSC «Voda Rostova»**

**Contract of management**

**OJSC «PO Vodokanal»**

**Contract for water supply and sanitation services**

**Consumers**

**Private investor**
Negative experience of unsuccessful PPP projects in Russia

«Neva Water» project in St. Petersburg
The Government of St. Petersburg (represented by GU «Agency for Strategic Investments») announced a tender for the construction, renovation and operation of real and personal property forming part of the Northern Waterworks. The project was to utilize a two-stage water purification technology and to be based on PPP schemes. The tender was held in compliance with the law of the participation of St. Petersburg in public-private partnership. In June 2011, all four bids submitted for the tender successfully passed pre-selection procedures. However, on 27.12.2012 the organizers of the tender chose not to enter into a PPP agreement with the only participant in the tender.

Water supply development program in the Krasnodar region
In March 2010, a concession agreement was signed between the Government of the Krasnodar region and LLC «Yugvodokanal». The agreement concerned water supply and sanitation facilities in the area of five cities (including Novorossiysk, Yeysk, Gelendzhik) and 140 settlements with the total population of about 1 million. Under the terms of the development program in 2010-2039, LLC «Yugvodokanal» was supposed to attract investments amounting to 7,38 bn rbl. Because LLC «Yugvodokanal» has been steadily evading the fulfillment of the conditions of the agreement (due to the lack of funding), the agreement is now in the process of termination.

Maintenance and repair of the heating systems in Tver
In May 2011, LLC «Tverteplo» was established on the basis of concession (based on Federal law «On Concession Agreements») and according to the decision of the Tver City Duma. LLC «Tverteplo» was a joint venture by OJSC «Territorial Generating Company №2» and the administration of the city of Tver. LLC «Tverteplo» supplies heat and hot water to homes, maintains and repairs the heating network. Under the lease agreement, it has control over nearly all the heating network in Tver which is more than 435 km long. LLC «Tverteplo» is currently undergoing bankruptcy proceedings.
Reasons for the revision of terms and termination of PPP projects

- Lack of experience in producing quality projects
- Inefficient interactions between the authorities and private investors
- Failure of many PPP projects to meet the requirements of the financial institutions
- Incorrect assessment of the effective demand (setting of non-optimal tariffs)
- Ineffective information policy concerning future realization of the PPP project
- Poor preparation of tender documentation, arbitrary choice of a private investor
- Lack of competition among potential private investors in some industries
- Violation of tender procedures
- Arbitrary criteria for the evaluation of private investors
In a sociological survey conducted by TRANSPROEKT Group as part of a state contract, members of various ministries and agencies in 50 subjects of the Russian Federation were interviewed on the development of public-private partnerships in their regions and the country as a whole. The most interesting responses to the questions from the questionnaire are presented below.

How would you assess the degree to which the regulatory system in your region is developed?

- The existing regulatory system is sufficient for the implementation of PPP projects.
- The existing regulatory system is insufficient, and it requires a major modification/adaptation.
- The existing regulatory system is insufficient for the implementation of PPP projects, but nevertheless such legislation can still be of use.

What are the challenges to the implementation of PPP projects?

- Lack of skilled private investors who is ready to invest in PPP projects.
- Unclear mechanism of return on investment.
- Deficiencies in the existing regulatory system.
- Inability of municipal and regional governing bodies to make PPP projects attractive to investors, unwillingness of governments to participate in PPP projects and bring in professional consultants.
Despite the growing number of regional PPP projects in the Russian Federation, it has been shown that in nearly half the cases in various sectors of the economy, due to the failure of private investors to fulfill their obligations, there had to be revisions of the feasibility studies and other documentation. Procedures for new tenders had to be activated in order to find new private investors, and the time required for the implementation of the projects was prolonged considerably. Because of this, success of a PPP project largely depends on the quality of the tender documentation, on the elaboration of the criteria for the competitive selection of private investors, and on the selection of a concession or investment agreement which will allow for a balanced relationship between the public and the private partner.

In order to implement PPP projects successfully and effectively and to attract private investors and financial institutions, it is imperative to develop high quality financial and economic, organizational and legal models of a PPP project; technical feasibility study of the viability of the project based on the evaluation of different technical approaches. Therefore, it is customary during the preparations at the pre-investment stage of the PPP project to enlist the help of professional consultants in order to resolve various issues in financial, economic, institutional, engineering spheres.
TRANSPROEKT is an engineering and consulting group specialized in the development of integrated transport systems and engineering infrastructure, social and cultural facilities, municipal services and public works construction.

TRANSPROEKT Group utilizes a unique integrated approach by being the sole consultant on financial, economic, organizational, legal and engineering issues thus guaranteeing a high quality “package” for the project, excellence in the preparation and conduct of tender proceedings, engagement of domestic and foreign investors, banks and financial institutions. The integrated approach of TRANSPROEKT Group ensures top expertise in each and every task and is vital for the effective preparation and implementation of all projects from basic to the most complex ones.

The fine blend of practical experience and research has been the cornerstone for all the company’s activities for years since the very beginning. It helped to shape the key areas of interest, such as engineering, technical consulting and public-private partnership which complemented each other in the successful implementation of dozens of major infrastructural PPP projects with total investments totaling more than 1,7 trillion rubles in the Russian Federation and the CIS countries.
The largest projects of TRANSPROEKT Group

- Construction, modernization and operation of toll bridges across the river Chusovaya in the Perm region
- Construction of a bridge over the river Volga near the town of Podnovye
- Construction of a dry cargo area in the sea port of «Taman»
- Construction of an extension of Dzerzhinski Metro-line from the station «Zolotaya Niva» to the station «Volochayevskaya» in the rapid transit system of Novosibirsk – Novosibirsk Metro
- Construction of Dmitrov interregional multimodal logistics center
- Construction of multimodal logistics center at the aerodrome «Yefremov»
- Construction of railway parks, and development of the railway station «Novorossiysk» North-Caucasian railway
- Construction of Sviyazhski interregional multimodal logistics center
- Construction of the regional communal highway in the Bashkortostan «Sterlitamak – Kaga – Magnitogorsk»
- Integrated development of the Murmansk Transport Hub
- Integrated development of the Novorossiysk Transport Hub
- Integrated development project of the toll highway M-4 «Don» (Moscow, Tula, Voronezh, Rostov, regions and Krasnodar Territory)
- Reconstruction of the highway M-8 «Kholmogori» from Moscow via Yaroslavl, Vologda, to Arkhangelsk at the MKAD-Pushkino section
- Runway reconstruction of the international airport «Tolmachevo»
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