







Reconstruction and extension of Iron removal plant (total capacity 30 000 m³/24h) and wellfield "Ziemeļu" in Daugavpils, 1999
In collaboration with YIT (Finland)
Project was financed by World Bank/IBRT


Within the project "Development of water services in river basins of Eastern Latvia, 18 municipalities" Arhis designed project of reconstruction and extension of water supply and sewage networks in Dagda, Salaspils, Kegums and Livani, during 2004 - 2005. Programme was financed by the national budget and EU Cohesion Fund. 

Design of reconstruction of sewage pressure pipeline and 3 pumping stations in Livani was created in 2003.

During the programme called "Development of technical design and tender documentation for water services development in 14 Kurzeme municipalities" Arhis designed project of reconstruction and extension of water supply and sewage networks in Talsi. Programme was financed by the national budget and EU Cohesion Fund. 

During period from 2005 - 2007 Arhis designed water supply and sewage projects for 15 municipalities (Adazi, Balozi, Ilukste, Karsava, Līgatne, Lubana, Ludza, Malpils, Malta, Plavinas, Saulkrasti, Ulbroka, Vilaka, Vilani and Zilupe) within the programme called "Development of water services in municipalities of river basins of Eastern Latvia, Phase III", that was financed by the national budget and EU Cohesion Fund. 

In 2005 Arhis designed projects also for Daugavpils City infrastructural development within a programme "Development of water services in Daugavpils City, Phase II". Arhis created projects of reconstruction of 18 water pressure pumping stations; reconstruction of wellfield Kalkuni, Iron removal plant and water tower; reconstruction of 21 waste water pumping station; reconstruction and extension of water supply and sewage networks. Programme was financed by the national budget and EU Cohesion Fund. 

In 2007 Arhis developed project of reconstruction and extension of water supply and sewage networks in Ogre, and in 2009 reconstruction of water supply and sewage networks design in Valka. 






Arhis over years has designed large amount of water supply and sewage projects:

	Total
Water supply networks	108 km
Sewage networks	111.4 km
Sewage pumping stations	80
Waste water treatment plants	11
Drillholes	3
Water reservoirs	13
Iron removal plants	9
Artesian wells	32



Reconstruction of waste water treatment plant (total capacity 60 000 m³/24h) in Daugavpils, 2000
In collaboration with SKANSKA (Sweden)
Project was financed by World Bank/IBRD



-  Development of technical design and tender documentation for water services development in 14 Kurzeme municipalities, 2005
-  Development of water services in river basins of Eastern Latvia, 18 municipalities, 2004 - 2005
-  Development of water services in municipalities of river basins of Eastern Latvia, Phase III
-  Development of water services in Daugavpils City, phase II, 2005
-  Other projects

As an example of a compact gasoline station arranged on a very limited land plot near Daugavpils main highway can be named a gasoline station for «Lukoil» chain constructed in 2001. This modern station provides opportunity to use also gas fuel.



First gas fuel filling station in Latvia was designed by Arhis in year 1998, Daugavpils



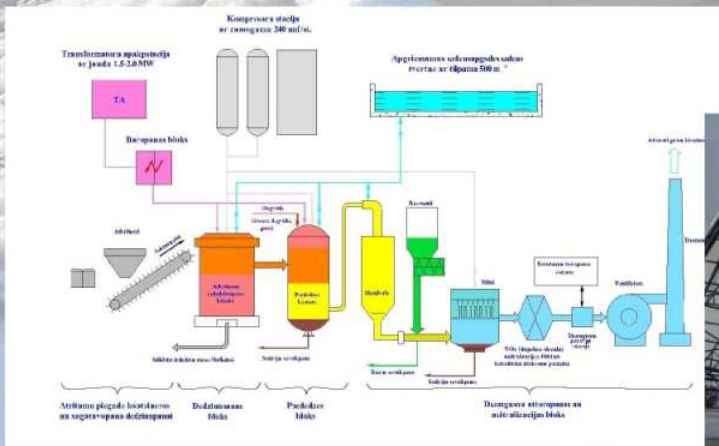
Gasoline station "Statoil" in 18.Novembra Street. Client: Statoil Latvija LLC



Gasoline station "Statoil" in Stacijas Street . Year 1997. Client : SIA Statoil Latvija. Engineering design was developed and technical supervision services performed.



Multi-parking garages design in collaboration with KLAUS (Germany)



Industrial and other solid waste incineration plant. Year 1999. Client: Daugavpils City Council, Public Utilities Department



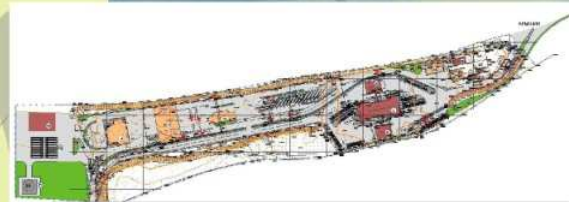
Lighting design of Speedway track "Lokomotiv" for international GRAND-PRIX World Series Races.





INFRASTRUCTURE

transportation



Conception of reconstructing BCP of the state border of the Republic of Armenia near the town of Meghri. The only border crossing point with Iran.

In 2011 Arhis started to develop preliminary design and tender documentation for a project in the Republic of Armenia called "Design and reconstruction of border crossing points "Bagratashen", "Bavra", "Gogavan" in the Republic of Armenia". The project is financed by United Nations Development Programme, European Investment Bank and European Union.



Preliminary design of a bridge via Debet river at the border between Armenia and Georgia. Year 2011



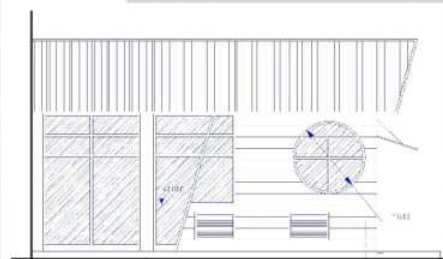
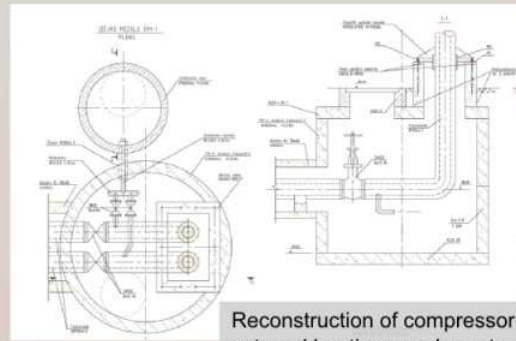
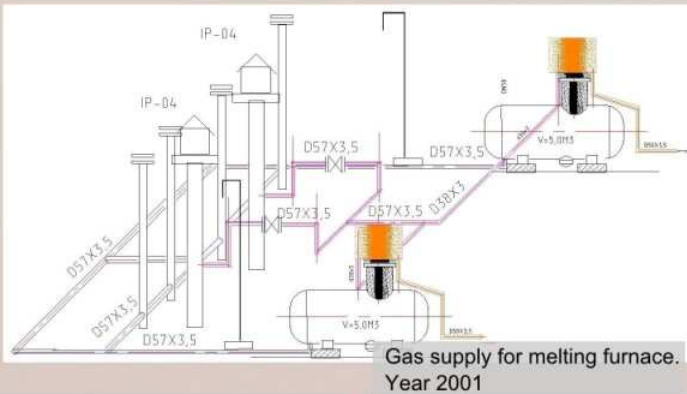
As leading partner Arhis participated in EU Latvia Lithuania cross border cooperation programme 2007-2013 project "Concept of roadside infrastructure and rest areas". The project was focused on road performance on the E-roads of international level with total length of 1421 km. The project area included the road land and land that is directly adjoined to the road. The main aim of the project was to create scenarios and design of rest areas for drivers to manage fatigue and increase safety on roads. Preliminary location for the small rest areas and full service centers are shown in the map above.



Technical design for Latvia - Lithuania border crossing point "DEMENE". Year 2003



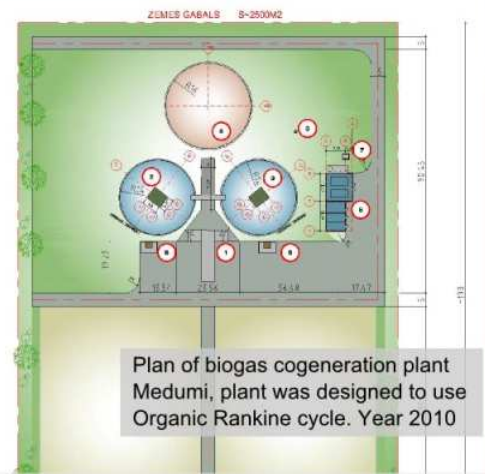
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Pellet cogeneration plant - Aglona biostation, using Organic Rankine cycle. Year 2010



Gas boiler-house for the Daugavpils City Central Market Pavilion "Gallery" Year 2002.



Between 1999 and 2013 our company developed about 10 design of different scale of heating and power supply and gas supply for industrial and community objects:

- Year 1999 compressor station LRDS Ilūkste and reconstruction of external heating main;
- year 2000 innovative heating system with GoGAS infrared burners for main production facility of Daugavpils driving chains plant;
- year 2000 gas supply system design for Daugavpils driving chains plant;
- year 2001 gas supply for metal remelting unit; gas supply for townhouses in Meness Street; boiler-house with storage premises in Pashuliene;
- year 2002 gas boiler-house for the Daugavpils City Central Market Pavilion "Gallery";
- year 2004 gas supply design for enterprise Daugavpils SpecATU ;
- year 2005 external gas supply design for Rinku and Naujene streets in Daugavpils; gas supply design for Tukuma, Jātnieku, Liepājas and Annas streets in Daugavpils;
- year 2008 power supply for Mark Rothko art centre - transformer substation; power supply for townhouses on Ventas Street;
- year 2010 biogas cogeneration plant - Medumi biostation; pellet cogeneration plant - Aglona biostation; power supply for Daugavpils Fortress cultural and information centre;



Heating system with GoGAS infrared burners for main production facility of Daugavpils driving chains plant. Year 2000