


# Gasification of the regions: an actual example of Primorsky Territory



**The chief for the regional  
production administration,  
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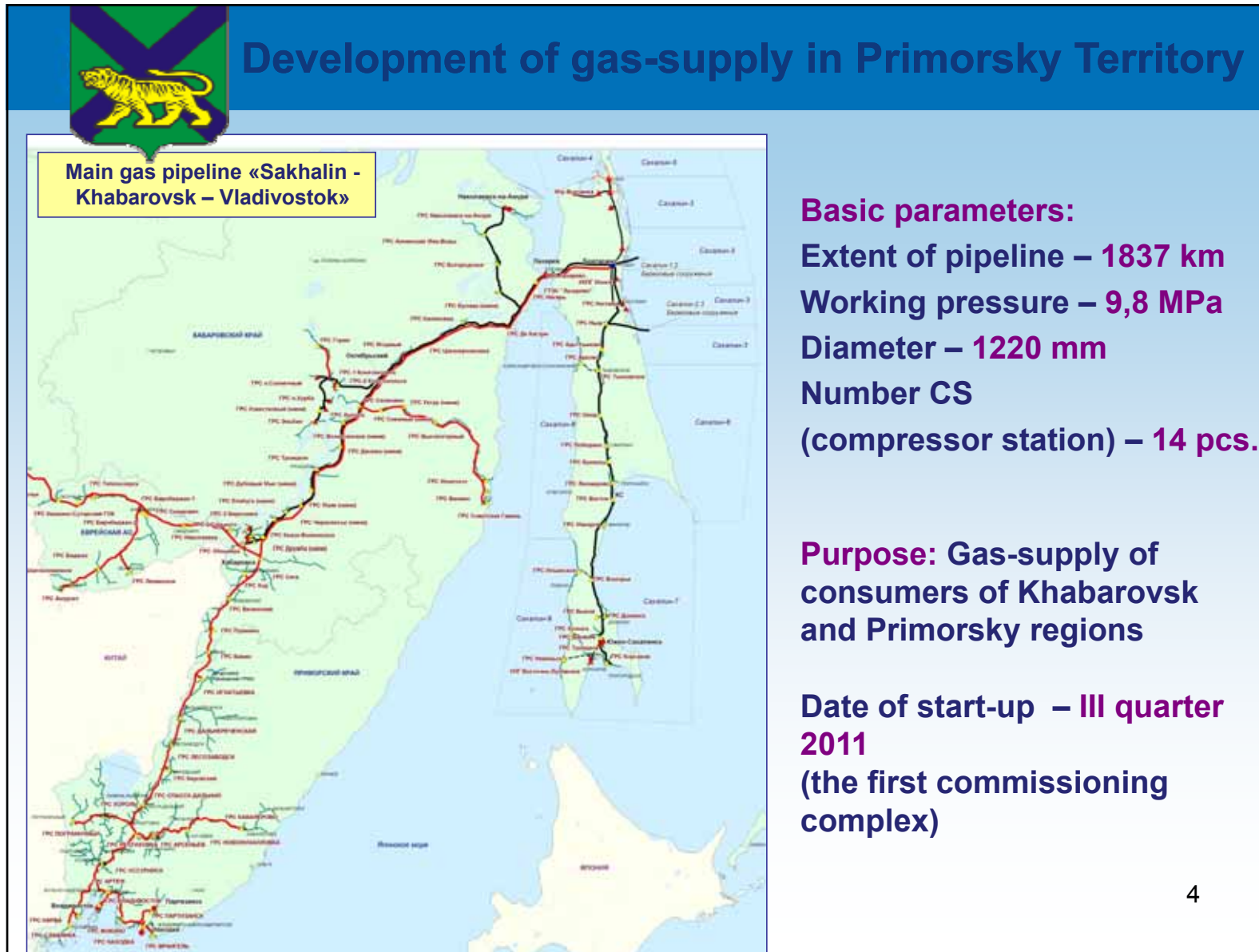
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## Condition of gas supply and gasification of Primorsky Territory

- The region is not gasified by natural gas
- Gasification level by liquefied hydrocarbonic gas (LHG) – 8,5 %
  - in countryside – 29,5%
- Number of the gasifiable apartments (home ownerships) LHG – 117,09 th.
  - in countryside – 60,9 th.
- Realisation liquefied hydrocarbonic gas – 11,15 th. tonnes
  - for population – 8,98 th. tonnes





## Development program of gasification In Primorsky Territory


**Purpose:** supply of natural gas for consumers of Primorsky Territory, improvement of structure FES, modernization of Housing Maintenance and Utilities (HMU), reliability improvement of power supply, improvement of working and living conditions, ecology

**Tasks:**

- Determination of the potential objects of natural gas consumption
- Determining priority/Priority regulation of priority and stages of gasification
- Demand determination and financing sources of program object
- Reliability providing of gas supply
- Fuel balance's optimization by way of boiler-rooms' transfer into the gas fuel
- Modernization and technical reequipment of boiler plant
- Determination economic efficiency in the work of gasification system

**Structure:**

- Reliability providing of gas supply
- Gasification of municipal district
- The transfer of boiler-rooms into the gas
- Development of gas-vehicle fuel marks
- Improvement of operation control system and servicing the distribution systems of gas

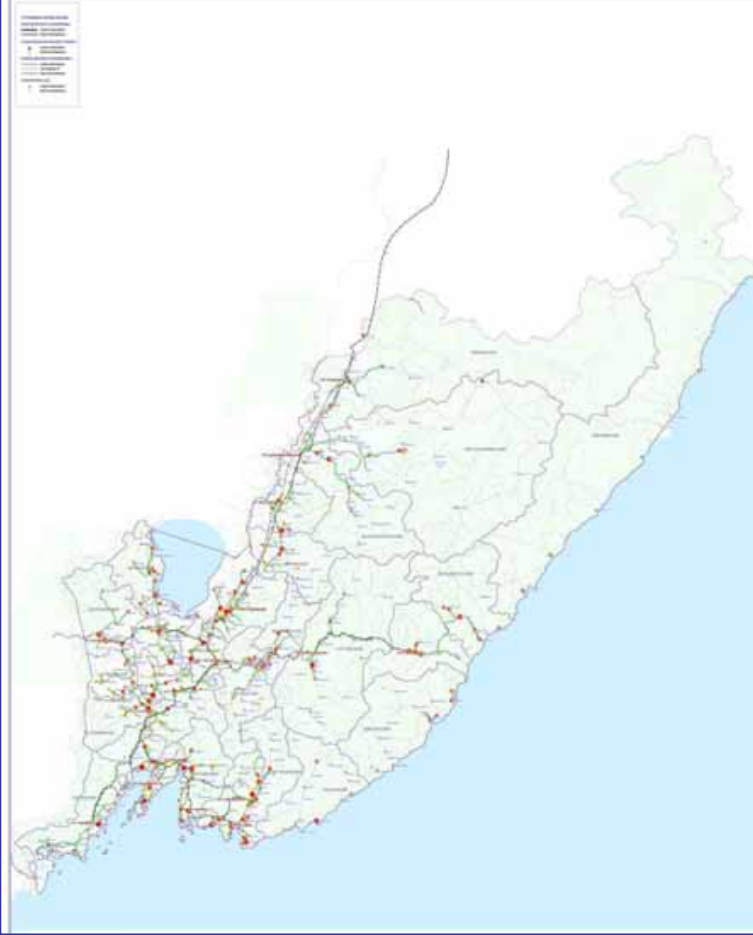


## Variant of consumers' gas supply

**Gasification of consumers by network natural gas in 31 Municipal District – 502 populated locality**

**Gasification with the use of liquefied natural gas (LNG) 29 inhabited locality в 4 municipal district: Dalnegorsky, Lazovsky, Olginsky, Terneisky**

**Gasification of transport with use CNG (compressed natural gas) – 8,8 th. Un., 17 ACSGF (Automatic compressor station gas filler)**



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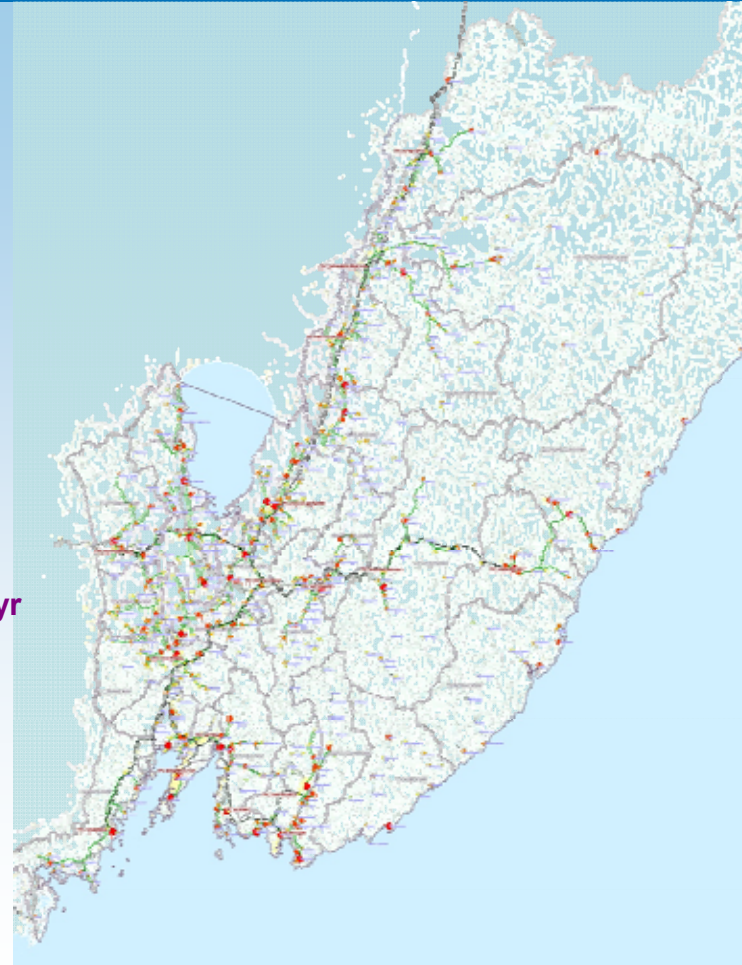
## Forecasting quantity indexes of general diagram

### Indexes of gasification:

- Number of the gasifiable inhabited locality - **502 in 31 Municipal District**
- Consumers of gas - **1932,36 th. pers.**
- Number of the gasifiable apartment (home ownerships) - **808,7 th.**
- Total volume of gas consumption - **17,4 billion cub. m/yr**
  - including oil-and-gas chemistry—**10,04 billion cub. m/yr**
  - including by population – **1,26 billion cub. m/yr**

### Development of gas supply and gas distribution system:

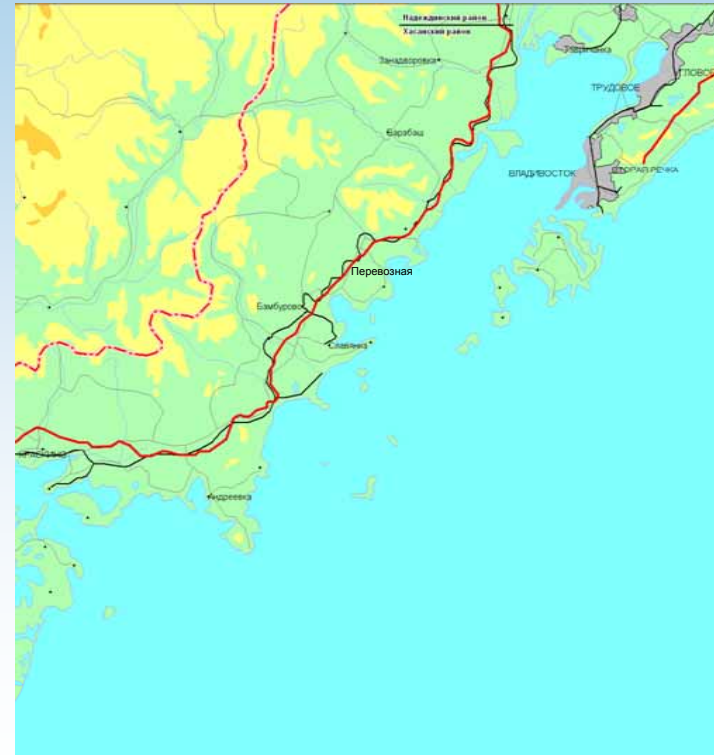
- Construction of main gas pipeline and n gas pipeline branches (throughout territory of region) – **1370,98 th. km**
- Construction of gas-distributing station (GDS) – **21**
- Construction of intersettlement gas pipeline – **3,43 th.km**





## Forecasting projects: LNG plant and gas chemical complex

*«In Primorsky Territory is planned construction of LNG production plant and gas chemical complex. For these factory raw material will enter from Sakhalin continental shelf and Eastern Siberia»*







## High-priority objects of gasification



Intersettlement gas pipeline from Vladivostok GDS to consumers of natural gas on Russky island with branch-off to Vladivostok TPS-2

Project is provided for:

- Extent of pipeline **35,735** km;
- Underwater passage  $\varnothing$  426 mm into two line in the case  $\varnothing$  720 mm

Contemplated for natural gas **2,8** billion/year



Completion date of construction **September , 2011**



## General diagram gas supply, Vladivostok



### Purpose of the diagram's elaboration:

Maintenance of continuous gas delivery of consumers Vladivostok and insular territory by natural gas, providing of the necessary parameters for gas-supply of thermosource, population, HMUs' and industrial factory.

According to gasification diagram of Vladivostok allowed for work's realization:

1. Power supply and fuel supply of Vladivostok to outlook until 2020.
2. Development of gas-supply and gasification in Vladivostok

Elaboration of proposal according to development stage of gas supply and gas distribution system and objects



