



GAZOHIM TECHNO LTD.

FOUNDED

in **2011**

[Grant received]

CORE OF THE INNOVATION

A technological innovation is combining in one technological complex a unit for synthesis gas production by the method of air catalytic partial oxidation and a microchannel Fischer-Tropsch reactor with the integrated catalyst.

Innovation of the business model provides an opportunity to monetize a huge resource base of the unconditioned hydrocarbons (associated gas, stabilization gases, breakthrough gases, biogas, coal mine methane and others) that currently are being lost and pollute the environment.

APPLICATIONS

There is an opportunity to become the first country in the world monetizing small volumes of gas raw materials into high-margin products.

PEOPLE

GENERAL DIRECTOR:

Sergey Dolinsky, Ph.D. in Chemistry

DEPUTY GENERAL DIRECTOR:

Denis Pchelintsev, Ph.D. in Engineering

Areas of application

1

Processing of associated crude oil gas into synthetic oil.

2

Monetizing gas resources of the small gas deposits.

3

Receiving synthetic hydrocarbons from extra resources of the unconditioned gas (coal mine methane, biogas).

Advantages of the technology

1

Full reduction (by 100%) of gas burning and therefore no penalties for environmental pollution, extra income from selling greenhouse gases ERU.

2

3-5% increase in production of liquid hydrocarbons at the deposit location.

3

No need in investments into unprofitable infrastructure.

4

Involving into the economy thousands of small and medium gas deposits located remotely from gas transportation system.

5

No need in flaring at oil and hydrocarbons deposits at shelf areas.



Peculiarities of the project

Realization of the project allows to bring back into the economy and commercial usage a huge resource base of the unconditioned gas (associated and natural gas, coal mine methane, biogas – totally over 50 bcm/year) that is now being lost or unused, and create in Russia a new industry of small-tonnage gas-and petrochemistry.

It allows monetizing unconditioned gas resources, deep processing of associated and natural gas into synthetic oil and further processed high-margin Fischer-Tropsch products (pure paraffins, components for paint and varnish industry, forestry engineering and pharmaceutical industry).