



# **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:**

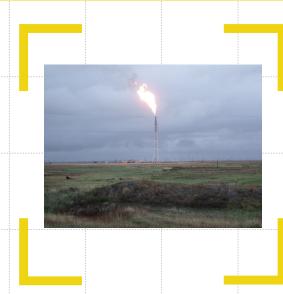
Denis Pchelintsev, Ph.D. in Engineering

### Areas of application

- Processing of associated crude oil gas into synthetic oil.
- Monetizing gas resources of the small gas deposits.
- Receiving synthetic hydrocarbons from extra resources of the unconditioned gas (coal mine methane, biogas).

## Advantages of the technology

- Full reduction (by 100%) of gas burning and therefore no penalties for environmental pollution, extra income from selling greenhouse gases ERU.
- 3-5% increase in production of liquid hydrocarbons at the deposit location.
- No need in investments into unprofitable infrastructure.
- Involving into the economy thousands of small and medium gas deposits located remotely from gas transportation system.
- 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).