

# Executive Highlights



## Introduction

Petrol issue is one of the complicated economic and social problems of Iran, which has been a subject of discussion in policy-making and decision making centers of the country at least in the past three decades and the experts constantly give warnings on the problems emerging from lack decision making on them.

Today, the issue of energy in general and petrol in particular is specific importance across the world. The development of human society and high paste of increase in demand, buying vehicles and its importance as one of the major factors of social welfare have put human society exposed human society to a serious challenge under the topic of vehicles fuels. This issue could be studied from several perspectives.

- Increasing loss of fossil fuels and specific oil resources
- Very high economic costs
- Environment pollution

These threats and risks have urged several companies, organizations and even governments across the world to think of a safe and fast solution to solve this problem so, due to very high consumption per capita, first, it should have economic justification and second, it would pollute environment less.

One of the solutions that perhaps is less studied than other alternatives is to replace petrol with other fuels or petrol compounds so the aforementioned categories are included in it considerably.

Achieving new compounds with petrol-base is so important that compositions with very low percent in 3 to 15 percent have also received the attention of many countries including U.S.A., Japan, France and many other countries and presently, the aforementioned countries are conducting researches on alcohol (Bio-ethanol) as the vehicle fuel and/or in combination with petrol by spending large amount of budgets.



## Project Description

The present project introduces a new type of combined petrol that in addition to being more economical has much lower pollutants percent than usual petrol.

This company called Mobtakeran Energy Sabz and is the head of several subcontractors. Mr. Hamid Brahmand is the founder and CEO of the company.

Several companies ZKTCO (Zarinkare Talae Co. Ltd.) and GPS (Gas Petro Safa) both located in South Pars and the "Caspian Chemistry" located in Anzali port ([www.caspianchemistry.com](http://www.caspianchemistry.com)) will act as subcontractors of Mobtakeran Energy Sabz.

Mobtakeran Energy Sabz Refinery has been established in order to produce Biofuel and alternative fuel based on unique technologies and new inventions that will change Petrochemical industry.

The company has decided to produce this new automobile fuel, considering the following principles:

- This new fuel must not require any noticeable changes in the form of the engines or other related parts and pieces,
- This new fuel must not require any noticeable change in the form of the pumps or other equipments used in gas stations,
- This new fuel must be more economical than the currently used fuel,
- This new fuel must have less harmful effects on the biological environment than the currently used fuel,



## Project Description

The new petrol is made up of 75% methanol, 24% petrol, and 1% other admixtures and called new fuel “Green Petrol” with regard to its structure, combination and its low polluting potentiality.

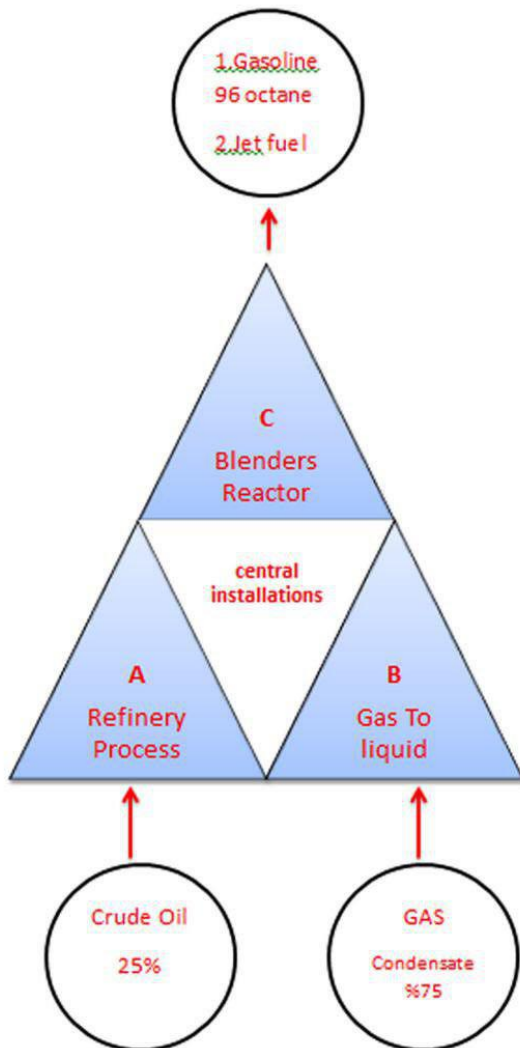
The company has established many final products and late stage projects for further planning for development/production in Europe and/or in any other reliable country based on the business opportunity.

We want to reach:

- a) Advanced GTL refinery
- b) Advanced petroleum cracking refinery
- c) Stable Blend Refinery using blend reactors until -50 degree without any two-phase method for Gasoline, Jet fuel, Diesel fuel



## Process Scheme GPS



Refinery process + Gas to liquid (GTL and CTL) =  
 Blenders reactor = 1. Gasoline octane 96 2. Jet fuel  
 Euros 6:

- A. Distillation column (12\*2.5) jet tray towers add catalytic (Molbidin oxide, vanadium, silicium) electric
- B. I) Desulfurization Device for floating sulfur P.P.M  
 II) Gas to liquids GPS process
- C. Single Blenders Reactor for production



## Utilization in Three Phases

### Phases of GTL AND MTG

**PHASE 1**

**CAPACITY:**  
400,000 Lt/day

**PHASE 2**

**CAPACITY:**  
1,000,000 Lt/day

**PHASE3**

**CAPACITY:**  
5,000,000 Lt/day

Summary of economic calculations of this plan is presented in Business plan.

# OFFER

The project has the aim of producing clean fuels and advanced technology based on unique and novel technologies and with regards to new inventions, which will improve enormously the products of refinery industries.

Mobtakeran Energy Sabz is seeking partners/investors to expand their existing production and refinery capacities from Asaluyeh and South Pars into one of the European countries.

## **Technology:**

- The refinery of Asaluyeh and South Pars
- Super octane production
- Advanced Gasoline and Jet fuel production.

## **Project Status:**

New

## **Market analysis and business case including financial information:**

- Buisness plan exists in English and Farsi
- All necessary documents of operation certificates, registrations, patents, and technology description.

## **Patent application:**

- Patent: 49338 – 37240 – 39087 – 37198 – 49338 – 37240 – 36198 – 36197 - 36926 -36925
- Patents have to expand worldwide.