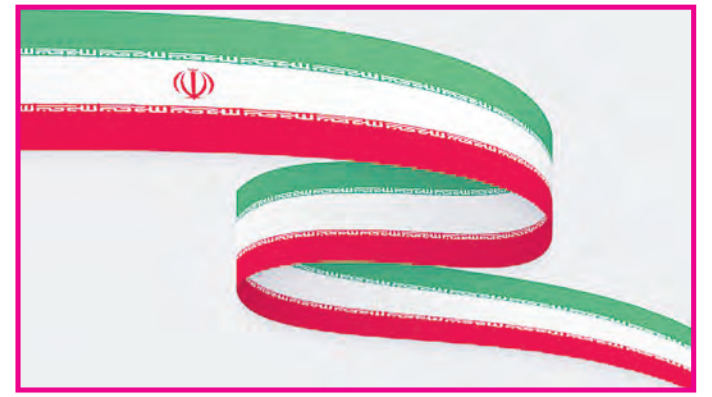


**Spokeswoman for Health Ministry  
Sima Sadat Lari Said on Sunday That  
Some 57 More Iranians Died Over the  
past 24 Hours Due to Covid-19 as the  
Death Toll Reached 58,469**

# IRAN NEWS



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2 **DOMESTIC**

**President Inaugurates  
Agricultural Projects Nationwide**  
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## Iran to Return to JCPOA Obligations Only If U.S. Sanctions Lifted



گاهی دشمن نزدیک می شود تا غافلگیر کند پس دور اندیش باش

IRAN NEWS NATIONAL DESK

TEHRAN – Supreme Leader of the Islamic Revolution Ayatollah Seyed Ali Khamenei says Iran will retrace its nuclear countermeasures once the United States lifts its sanctions in a manner that could be verifiable by Tehran. “Iran will return to its JCOPA obligations once the US fully lifts its sanctions in action and not in words or on paper, and once the sanction relief is verified by Iran,” Ayatollah Khamenei said, referring by abbreviation to the Joint Comprehensive Plan of Action, the official name of the landmark nuclear agreement that Iran signed with the P5+1 group of states -- the US, the UK, France, Russia, and China plus Germany -- in Vienna in 2015.

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**ViewPoint**  
By: Hamid Reza Naghashian

### Biden Does Dare Decision Making

The condition for Joe Biden, the newly-elected president coming into power in the U.S., is by far more difficult than 2016 when Donald Trump took power in the U.S. because some decisions like taking stance on the JCPOA had been taken even before Trump coming to power and it was evident but Biden with some promises nurturing in his mind that he might return to the JCPOA finds it inapplicable after electing his executive team regardless of the presence of the Zionists surrounding him.

Regardless of the issue of the JCPOA, Biden Administration is facing a large number of challenges. Bipolarization of the country after the presidential election has made the U.S. face different challenges like national security, uneven condition in managing the coronavirus pandemic and even earmarking budget for resolving financial crisis ahead of the country because simultaneously, the federal budgets due to the infrastructural and public health crisis are in critical condition.

Reacting to these challenges, a growing will is seen in the public for reconsideration in the U.S. global role. It is clearly visible that Biden does not seek display of power, and with the domestic plights he prefers first to focus on the domestic issue and then to the overseas issues.

In this regards, the American Rand Corporation think tank in an almost realistic report writes, “According to one of the options, the U.S. by adopting a realistic self-restraint has taken a constructive approach regarding the other powers because it has decreased its military and aggressive presence and it has preferred to end some of its security commitments in order that it could once again reach agreements in a better condition.”

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### Any Israeli Attack to Face Decisive Response

TEHRAN (PressTV) - Iran’s ambassador to the United Nations has warned about Israeli officials’ provocative and hawkish remarks, saying Tehran will give a decisive response to any Israeli threat.

Majid Takht Ravanchi made the remarks in a letter to UN Secretary General Antonio Guterres and the current president of the UN Security Council.

“Recently, the Israeli regime has not only intensified its provocative and hawkish remarks against the Islamic Republic of Iran, but is also actively planning to carry out its hostile threats against Iran,” the Iranian envoy said in the letter.

He referred to the top Israeli military official’s January 26 “false” claims about Iran’s peaceful nuclear program as the latest case of such anti-Iran threats, and said, “In addition to their current plans against Iran, the Israeli military forces are also preparing operational plans to develop them for the next year, as such plans must be ‘on the table.’”

He described such threats as a “blatant violation of the Article 2 of the UN Charter”, and stressed that the international community must give an appropriate response given the “dark record of the regime in attacking regional countries”.

See Page 7

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Receiving a Special Plaque and Statue of the National Summit on Social Responsibility and Professional Ethics

## President Inaugurates Agricultural Projects Nationwide

IRAN NEWS NATIONAL DESK

TEHRAN - Several mega projects on agriculture and animal husbandry were inaugurated on Sunday nationwide by the order of Iran's president.

On the eighth day of the 10-Day Dawn as the part of the 47th inauguration program of the surge in production and the 35th period of introducing and celebrating the national elite of the agricultural sector, 372 greenhouse projects and phases 1 and 2 of the livestock complex with an investment of 4,900 billion Tomans was put into operation in the presence of the President Hassan Rouhani.

By exploiting these projects with an area of 954 hectares, 11,500 people will be employed throughout Iran.

The President also ordered the operation of the first and second phases of the livestock complex in Markazi province with a capacity of 20,000 dairy cows with a value of 700 billion tomans and employment of 350 people. Rouhani called agriculture the biggest foundation of health, life, and security of the society and people and said: "Until 2013, the total number of greenhouses in the country was 8,000 hectares and today 954 hectares of greenhouses were opened throughout the country."

He continued by asking what would happen if the borders were closed and a country needed wheat and food for life, saying: "Early in the coronavirus outbreak in Europe, we saw that they had problems in their shops because of their transportation and food, and we saw what problems arose when the borders were closed."

In today's ceremony, the national channel of agricultural education was unveiled with 42 live broadcast channels as well as 32 studios producing agricultural programs and agricultural education.



## Judiciary Chief to Make Trip to Iraq

TEHRAN (MNA) – Judiciary Chief Ebrahim Raeisi is to make a trip to Baghdad, Iraq, today (Monday).

Leading a high-ranking delegation, Raeisi is to leave Tehran for Baghdad.

The trip is made according to the invitation of the head of Iraq's Supreme Judicial Council, Faeq Zeidan.

The Iranian delegation will visit the headquarters of the Supreme Judicial Council of Iraq on Tuesday to sign several memoranda of understanding between the two countries in the framework of judicial and legal cooperation.

On the sidelines of the trip, a memorandum of understanding will be signed with the Ministry of Justice and High Commissioner for Human Rights in Iraq.

In his visit to Tehran back in August 2020, Faeq Zeidan discussed some issues over the human rights situation in the countries of the Resistance Front and the oppressive and unilateral sanctions of the United States while addressing the online the sixth Festival of Islamic Human Rights and Human Dignity held by Iran Judiciary's High Council of Human Rights.

## 2021 IranPlast Kicks off in Tehran

TEHRAN (MNA) – The fourth edition of the IranPlast International Exhibition kicked off on Sunday in Tehran's permanent fairground.

The director of the 14th IranPlast International Exhibition said the show would be held with 200 Iranian companies as well as 250 foreign traders in Tehran. Ayub Banavi said in this edition of the fair, four commodity groups of raw materials will be put on display at Tehran's permanent fairground, Shana reported.

Regarding the distinguishing feature of the 14th IranPlast Exhibition, he said: "The distinguishing feature of this exhibition is the colorful presence of knowledge-based companies as well as holding virtual and online exhibitions, which will start on February 7 and last for two weeks.

Regarding the holding of the online exhibition, the director of the 14th IranPlast International Exhibition stated that the information of the virtual exhibition and invitations to visit have been sent to more than 22,000 foreign visitors, adding: "Although in the past, the virtual exhibition section on the IranPlast website was formed, this platform has been updated this year with facilities and capacities that fully comply with the standards of online exhibitions and has been made available to exhibitors and visitors."

Inauguration of 16 ABFA Construction Projects in The Fajr 2020 Decade

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Social responsibility, drivers of sustainable development

## Chadormelo's long Steps in the Field of Social Responsibility

**E**ngineer Naser Taghizadeh, CEO and member of the board of directors of Chadormelo, said: "Social responsibility of companies is a task that persuades them to do it in their business environment to meet the expectations of society." On the other hand, it should not be forgotten that companies also have great responsibilities towards employees, shareholders, customers, suppliers, and all stakeholders. In both cases, they must live up to their commitments.

He added: "In the recent crisis caused by the outbreak of coronary heart disease, Chadormelo Mining and Industrial Company started training measures to prevent the spread of these diseases in the HSE units of Chadormelo Mining and Industrial Complexes in late 2019." In the fastest time, with the supervision of the managers of each department, a crisis management headquarters was formed. Education, and safety and health measures to combat the disease continued extensively. Also, with strict measures, all personnel, including official staff and contract workers, are required to undergo blood tests and medical examinations when returning from leave and before starting work. If you are in perfect health, you will be allowed to enter the complexes. If symptoms of coronavirus are observed in them, they are treated without exception at the expense of the company. To this end, medical teams have been deployed in both complexes, and all contractors have been required to pay for the treatment of staff and their families. Engineer Taghizadeh announced other measures taken by Chadormelo to deal with the spread of coronary heart disease: equipping Shahrdarkan emergency convalescent home with 100 beds for quarantine of patients with coronavirus, organizing 15 mechanized teams equipped with disinfection equipment in coordination with local headquarters and dispatching these groups to The cities of Ardakan, Aqda, Meybod, Bahabad and neighboring villages to disinfect public places with dozens of tankers, ambulances and machines equipped with disinfection equipment, distributing thousands of masks and gloves and distributing it among citizens and cleaning public places. He said: in total, more than 222 billion and 700 million rials in cash and non-cash assistance to fight the corona have been donated to the monitoring and medical centers of Yazd province and Ardakan city in order to take preventive measures and treat patients. Chadormelo CEO said: "Every organization is required to work to solve problems, issues and improve the quality of life of employees, and meet some social, cultural and environmental needs of the community affected by its activities." Chadormelo Company has tried in addition to fulfilling its obligations within the framework of labor laws to employees, including workers, experts and managers, to provide part of their welfare, social and cultural needs. Since April of this year, all staff working in Chadormelo (over 7,000 people) have been paid living allowance in 3 installments. In the long run, with the establishment of the Housing Cooperative Company, suitable



housing will be built for all homeless workers working in mining and industrial complexes in Ardakan and Bahabad counties. This measure is taken in order to ensure job security and psychological peace of hardworking workers who have a major role in the production and economy of the country. He added: "At the same time, last year alone, 240 billion rials of Chadormelo financial support to Ardakan city, in line with social responsibility in the fields of science, education, health, culture, religion, sports, deprivation, services and social activities Grants have been donated to cultural centers, sports delegations, Qarz al-Hasna funds, mosques, schools, charitable associations, scientific and educational centers, the Imam Khomeini Relief Committee, and the Natural Resources Organization. Engineer Nasser Taghizadeh added: "Responsible and committed organizations, before problems arise and before they are requested, should be based on the principles explained in their development perspective, in the face of possible future crises." Endanger communities by making the necessary predictions and practical actions. Accordingly, Chadormelo Company, with a firm belief in the realization of this matter, including the promotion of environmental indicators, has not only complied with the requirements of the law to reduce pollutants from the activities of its production and industrial units, but also measures beyond the duties to prevent It has also adopted future crises. One of these vital measures has been to predict the future crisis of the country, especially desert areas in water supply. This company, together with two companies, Gol Gohar and Sarcheshmeh Copper, with a far-sighted plan, has implemented the Persian Gulf water desalination project for several years and transferred it to the central regions of Iran, including Yazd province and Ardakan city, and to implement this huge project. National and strategic, 172 thousand billion rials investment is projected. Another measure of Chadormelo, which has been implemented at a cost of more than 13 thousand billion rials, is the construction of a 500 MW combined

cycle power plant in Ardakan city with the aim of meeting the electricity needs of industrial units located in this region and other consumers in the country. It is currently in the circuit of the national electricity grid. And now a 10-megawatt solar power plant is being built near the Sika power plant and will be operational soon. Also, one of the big and infrastructural projects for the development of Chadormelo section is the project of constructing a wastewater treatment plant in Ardakan city and transferring a part of it to Chadormelo industrial complex. This project has a significant impact on improving the health of the city's residents and also preventing water loss, while Chadormelo has spent 1939 billion rials to implement this project in Ardakan. It should not be forgotten that these infrastructure projects, which are in the public interest, are actions beyond the duties of an industrial company. Regarding the environmental measures of this company, the CEO of Chadormelo also said: in Chadormelo industrial complex in Ardakan, Yazd, more than 300 hectares of orchards and 218 hectares of arboriculture have been created from non-fruitful species and resistant to desert conditions. Due to the use of dust collection equipment and bag filters in Ardakan pelletizing plant, the amount of pollutant particles has been drastically reduced and the highest pollution reduction measures have been adopted. He added: In the mineral complex, over 85 hectares of green space with different species of trees and plants resistant to desert has been created and to preserve the wildlife of the desert, measures such as creating a watering hole - building buildings for the rangers of the fig and wild reeds - Cooperation in supplying the region's environmental force - Utilization of Saghand pit salt water and its purification and replacement with fresh water of Bahabad - Implementation of household waste separation program including organic waste, glass and paper (from the beginning of production) - Use of wet system in factories Iron ore processing has been done to reduce the entry of dust particles into the external environment and periodic environmental monitoring. We are also planning to build a green belt along the road - Aqda to Ardakan with a length of about 30 km, which will have a significant impact on air conditioning and beautification of the route. While we have taken the lead in investigating and monitoring seasonal pollutants in Ardakan Chadormelo city, and by accepting the cost of implementing this project, we have asked the city officials to start the research work of this project with the aim of identifying the source of pollution. Another important step that is being taken is the construction of Bahabad D Clinic. Due to the proximity of Bahabad city to Chadormelo mining complex, this health center is very vital for the use of personnel and citizens of this region. At the National Conference on Social Responsibility and Professional Ethics, which was held at Al-Zahra University in December this year, Engineer Nasser Taghizadeh, CEO and member of the Board of Directors, was honored for his effective and valuable services in performing social responsibility. The special statue of this summit was also awarded to Chadormelo Mining and Industrial Company.

The role of the National Company for Refining and Distribution of Petroleum Products in the Iranian economy

# The Implementation of the Plans of the National Refining and Distribution Company Accelerated During Three Years



The National Company for Refining and Distribution of Iranian Petroleum Products was one of the industrial sectors in the face of severe sanctions. With the revival of international trade in the field of petroleum products exchanges, it was able to play a significant role in the economic war. By gaining a favorable position in the production mutation process, self-sufficiency in refined products was achieved. The trace of these national measures in the refining industry can be clearly seen from 2017 until now. Key actions led to national achievements for the Iranian government and people. If we take a brief look at the economic-industrial puzzle in the country, several pieces can be observed. This puzzle will draw a multidimensional image. Each piece of the puzzle shows a wide range of actions, ranging from tankers to oil rigs, from tanks to oil and product pipelines, from warehouses to refineries, and finally the energy exchange ring.

## Increasing the production capacity of petroleum products with the Persian Gulf Star Refinery

Star Persian Gulf, as the largest gas condensate refinery in the world, after several years of delays and delays in completing the units with calculated measures and appropriate prioritization of the management of the National Iranian Oil Products Refining and Distribution Company, was implemented downhill from 2017 until 2018. The three phases of the refinery with a capacity of 360,000 barrels per day were put into operation. This measure is a big step to bring the country to the stage of self-sufficiency in the production of strategic goods such as gasoline. Subsequently, with the operation of this refinery, the country became the largest exporter of this strategic product in the region from the importer of gasoline. The case of importing gasoline was closed forever. Looking at the statistics, it can be seen that in 2017, the country's gasoline production was 59 million liters. The share of the Persian Gulf Star Refinery in this amount of production was 3 million liters of gasoline per day. With the measures taken and efforts to complete the phases of the Persian Gulf star, with a statistical jump in 2019, the average production of gasoline reached 107 million liters per day. Following these measures, the construction of phase 4 of the Persian Gulf Star Refinery was at the top of the National Refining and Distribution Company's programs. It should be noted that the operation of the fourth phase of the Persian Gulf Star Refinery should have cost 3-4 billion dollars, and after spending about three to four years, this industrial unit was put into operation, but with expert studies. It was decided to implement this phase in software and using the excess capacity of equipment and some process changes in the heart of the existing 3 phases. With its full implementation, the refinery's nominal capacity increased to 480,000 barrels per day. Also, with the implementation of this virtual phase, 120,000 barrels of gas condensate per day for the production of gasoline and oil and gas with Euro 5 environmental standards was added to the nominal capacity of this refinery. The launch of the Persian Gulf Star refinery indirectly played an important role in the country's gas production. At present, the Persian Gulf star has met the needs of the gas condensate sector by receiving 430,000 barrels of gas condensate daily. While preventing the depot of this by-product in the conditions of sanctions, it helps to



continue the production of natural gas in the South Pars joint field.

## Development of petroleum products transmission pipelines

Pipelines are considered as the main transportation artery of crude oil and petroleum products, including key sectors and infrastructure in the oil industry. In this regard, the capacity of transporting oil and oil products has increased with the operation of more than 1000 km of pipelines over the past two years. With the operation of four important pipelines Nain / Kashan / Rey, Shazand / Qom / Rey and Tabriz / Khoy / Urmia and Abadan / Ahvaz during the last two years a total of more than 1000 km has been added to the pipelines of the country and the length of these pipelines. The transfer of crude oil and petroleum products from the country has increased from 14 to 15 thousand kilometers. By exploiting these lines, the daily traffic of 3,000 tankers has been prevented and 178,000 liters of gas oil have been prevented from burning in the tank of the tankers. According to the subsidy that the government pays for gas oil, by operating these lines, an annual amount of 1282 billion Tomans has been saved in the payment of subsidies. It should be noted that currently 468 km of Bandar Abbas-Rafsanjan petroleum products transmission pipelines, 238 km of Rafsanjan-Yazd and 620 km of Sabzabab-Rey sour crude oil pipelines are under construction. Their operation will add a total of another 1300 km to the length of the country's pipelines.

## Increasing the storage capacity of petroleum products

Increasing the storage capacity of petroleum products is one of the important approaches and effective measures in the oil industry. In the conditions of expansion of Covid-19 and reduction of consumption of gasoline and other products, the necessity of their storage centers is doubled. However, increasing storage capacity, in addition to the above, has a direct impact on the bargaining power of countries in international markets. In recent years, the National Company for

Refining and Distribution of Iranian Petroleum Products has added about 800 million liters to the storage capacity of the country's petroleum products. During this period, new warehouses were established in areas such as Malayer, Mahshahr, Shiraz, Birjand and Urmia. Following the construction of units such as Urmia and Malayer oil depots with a capacity of 120 million liters and 68 million liters, respectively, in order to store the product in key tanks, both depots were put into operation in April this year.

## Development and reconstruction of oil piers

Due to the importance of export ports in the face of sanctions, the National Company for Refining and Distribution of Iranian Petroleum Products, relying on domestic capacity and trust in the youth, succeeded in developing, modernizing and increasing export capacity in Mahshahr and Shahid Rajaei ports; An industrial and strategic approach in Aqaba, relying on the power and capacity of domestic experts in the year of the production leap, so that by implementing development plans and construction of new export wharves in these two important and strategic ports, the country's export capacity in these ports from 26 million tons per year to 75 million tons per year and the operating capacity of the berths has increased from 18 million tons to 50 million tons per year. Mahshahr Export Port, the oldest oil port in the country, has increased its export capacity from 15 million tons per year to 45 million tons per year by increasing the number of export berths from 2 to 8 berths and the renovation of old berths. It has a capacity of 35 to 90 thousand tons. Also regarding Shahid Rajaei port, it should be said that having 4 berths, it has the ability to berth ships with a capacity of 35 to 45 thousand tons. The steel wharf can also be moored on ships with a capacity of 90,000 tons. In total, with the implementation of Shahid Rajaei port and steel development plan, export capacity of 40 million tons per year has been created. Until now, Shahid Rajaei export port had only two wharves. The port was only able to dock two ships at a time and had an annual capacity of 11 million tons.

## Revive the export of products from the energy exchange channel

Energy Exchange with the diligent cooperation of the National Iranian Oil Products Refining and Distribution Company since 2019, became an important way to supply and export various petroleum products and solvents to land and sea export destinations. The boom in the supply of products in the energy exchange has provided a good opportunity to export refined products to different countries. However, despite the difficult export conditions under the shadow of sanctions, all export currencies resulting from the sale of products have been deposited in the state treasury through clever measures taken to transfer these funds financially. Thus, over the past few years, with the increase in standard gasoline production, relying on the Persian Gulf Star refinery, the import case was closed in September 2018, and Iran officially joined the Gasoline Exporters Club, so that only in the first seven months of 2020, Iran as an active exporter of gasoline. Is present in the area. During this period, the company earned about \$ 1.4 billion from gasoline exports.

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Increasing the capacity of Gol Gohar concentrate production lines by Fakour Sanat Company

# Launching the largest Dry Cobbing line in Golgohar

The largest magnetic iron ore cobbing line in the country with a production capacity of more than 11 million tons per year, was commissioned by Tehran Fakour-e-Sanat Engineering Company. Of course, this is not the first time that this year we have witnessed the inauguration and launch of industrial and mining projects by Fakoor Sanat Company as a knowledge-based company in the field of design and implementation of mining and industrial projects by design and construction. From the beginning of this year until now, the efforts and cooperation of this company and the major mining companies of the country have been in order to achieve the slogan of 2020, which is to increase production. The results of these efforts have been evident in projects such as the Persian Gulf Water Transfer Project, also known as the «Hope Transmission Line». The project of improving the quality and increasing the capacity of 5, 6 and 7 concentrate lines of Golgohar Company is also one of the projects that was entrusted to this complex due to the capability of Fakoor Sanat Tehran in the field of design and performance. Thus, the production capacity of six million tons in three separate phases will increase to 1.8 million tons per year.

## Supply input load with higher iron percentage

In this regard, the company has provided conditions in the Golgohar Iron Ore Complex by establishing different parts of this project, including the cobbing unit, re-crushing and dewatering. In addition to producing a better product, production capacity also increases and the slogan of the year is realized in one of the industrial and mining complexes of the country. In this regard, the director of this project told «Jahan-e-Sanat»: «The set of actions of Fakoor-Sanat Company in the new year has been based on a production leap.» Golgohar Mining and Industrial Company expressed its need to increase the production capacity as well as upgrade and increase the quality of iron ore concentrate products in terms of granulation and blade to Fakoor-Sanat Company. Thamer Yousefian stated: In order to invite the cooperation of Golgohar Company, the necessary studies and designs were done. A series of changes were considered for the development and upgrade of



lines 5, 6 and 7 of Golgohar concentrate, the first part of which is the dry cobbing unit. In this regard, he explained: The responsibility of the dry cobbing unit is to increase the feed grade to the factory. This means that part of the tailings (low iron grade stones) is removed from the input feed so that the input load with a higher percentage of iron enters the plant. Yousefian added: «When the input load enters the factory with a higher percentage of iron, the annual production capacity of the factory also increases.»

## 15% increase in production capacity

The manager of this project said: with the implementation of the dry cubing unit, a 15% increase in production capacity will be achieved in these three lines. With the implementation of all phases of this project, the capacity of three production lines of iron ore concentrate is expected to increase from the current six million tons to 8.1 million tons per year. Yousefian stated that the purpose of implementing the dry cobbing unit is to separate about 15% of low-grade feed with iron grade 10 to 12% of the feed to the three lines of the factory. He added: «Increasing the recovery of the input feed and as a result increasing the annual production of the mentioned lines by 15% has been one of the

goals of this phase of the project.» According to the contract, there will be at least a four percent increase in grade in the output of the dry cobbing unit. He also stated that eight medium field intensity separators (MIMS) have been used to isolate low-quality tailings. Yousefian stated: During the performance tests of the mentioned line, we witnessed a 5.5% increase in the iron grade of the product and the separation of about 12% of low-grade load with a 7% iron grade as waste. This amount, considering the 0-50 mm grain size of the input feed, indicates a brilliant performance and exceeds the values provided in the contract.

## Using the expertise of contracting companies

He continued: The contract for the dry cobbing section of the project for development and quality improvement of lines 5, 6 and 7 of Golgohar concentrate was signed in September 2019. Despite the 15-month contract period, the dry cobbing section was completed and ready for production within a year. This contract was of EPC type. The EPC (Engineering, Equipment Supply, and Performance) contract is one of the most important and complex contracts in which the work of designing, supplying equipment and project performance is entrusted to the contractor. In other words, it can be said that the employer will be released from the heavy managerial and performance responsibilities of the project. In this way, the expertise of contracting companies is also used. Run time is also reduced. He added: The six million ton factory of Golgohar iron ore concentrate is located in the factories of Golgohar Sirjan Mining and Industrial Company in Kerman province. With the help of the dry cubing unit, an increase in production capacity for this plant has occurred. The manager of this project stated: Localization of parts has been one of the main goals of Fakoor Sanat Tehran and Golgohar Mining and Industrial Company. Almost a large part of the equipment of this project, ie about 60%, is made in the country. Of course, in the dry cobbing unit, more than 70% of the equipment is made in the country. It is worth mentioning that Golgohar Industrial and Mining Company is one of the largest iron concentrate production units in Iran, which has invited knowledge-based companies such as Fakoor Sanat Tehran to cooperate in order to increase the quality and production capacity of its products.

Interview with Hashem Namvar, CEO of Bandar Abbas Oil Refining Company

# BORC The Only Iranian Oil Refining Co.

## Winner Of World Energy Award



*Bandar Abbas Oil Refining Company is twenty-four years old this year. During the last twenty-four years, what changes have been made to improve the quantity and quality of production, reduce the country's dependence on imports of petroleum products and diversify the product portfolio? Please provide a brief description of the growth and development of this refinery in the last 24 years. What is the vision of this modern Iranian oil refinery for the coming years?*

Bandar Abbas Oil Refining Company is one of the 10 refining companies in the country, which was set up in 1997 in order to supply some of the petroleum products needed by the country and the possibility of exporting surplus products with a refining capacity of 232,000 barrels per day. With the efforts of committed and domestic experts, the nominal production capacity increased to 320,000 barrels in 2008. Also, in 2012, the company was able to successfully increase its capacity to 350,000 barrels per day by successfully implementing an innovative project without cost and investment with a 30,000 barrel increase in injected gas condensate to distillation units and reducing viscosity. It is operating with the same production capacity. Following the development plans in Bandar Abbas Oil Refining Company, the project of increasing the production capacity and improving the quality of gasoline and gas oil with the aim of completing the refinery units and the country's self-sufficiency in gasoline production, was implemented. Also, the project of improving the quality of oil and gas produced by the refinery to the level of world standards was implemented in this project. With the implementation of the project to increase production and improve the quality of gasoline and gas oil, achieving new environmental standards for the two main and important products of the refinery (gasoline and gas oil) became possible. Gasoline with Euro 5 standard and gas oil with Euro 4 standard were produced in Bandar Abbas oil refinery. Bandar Abbas Oil Refining Company cooperates with qualified employees and stakeholders to achieve national goals and interests. The company is on the path of sustainable energy production while maintaining environmental standards. To this end, goals including improving production processes, emphasis on research and development, knowledge management, improvement, modernization and development of the company's capabilities are considered.

The goal of Bandar Abbas Oil Refining Company is to achieve the top position of Iranian oil refining in productivity, increasing the quality of products and customer satisfaction. For this purpose, development-oriented projects are implemented in this refinery. The project of upgrading the quality of the refinery's heavy products, with the aim of building a delayed coking unit, reducing the amount of furnace oil and producing more value-added products, is on the company's agenda.



*Bandar Abbas Oil Refining Company in 2019 signed one of the most important contracts in the history of Iran's oil refining industry. For the first time, the project to improve the quality of heavy petroleum products began with the design and construction of coking plants. Explain about the most important works and achievements of this project? What is the current progress of the study plan of this project? When do you expect the executive operation of this national project to start? Explain the volume of investment.*

As it has been said, the project of improving the quality of heavy products is one of the important projects of Bandar Abbas Oil Refining Company and the Ministry of Oil. Due to the requirements of reducing the production of furnace oil, non-consumption in domestic and foreign markets and its low price for export, as well as the production of valuable and environmentally friendly products and improving economic performance, it is necessary to turn this product into light and quality products. Which has more added value. On the other hand, due to the import of sponge coke and the lack of its production in the country, companies producing domestic aluminum and consuming sponge coke were identified. Negotiations were held with aluminum companies and Imidro. As a result, Imidro was asked to produce sponge coke to meet the needs of the aluminum industry. Therefore, the process of improving the quality of heavy products by changing the previous refining pattern and designing a new refining pattern based on the production of sponge coke was on the agenda. The country will also cut off its dependence on foreign imports of unnecessary sponge coke.

The stage of technical studies and selection of the refining model has been completed. Currently, the basic design of the project is being carried out in collaboration with the Petroleum Industry Research Institute, which is about 40% complete. It will take 3 years to implement this large project, which has been

coordinated and planned. The project will start operating in the middle of 2022 with a credit of 1 billion and 500 million dollars.

*The construction of 6 new storage tanks for petroleum products began at the beginning of this year. What is the current progress of this project? With the implementation of this project, the storage capacity of Bandar Abbas oil refinery will be upgraded to how many days? What effect does the construction of these tanks have on increasing food and product safety and reducing production risk?*

All technical engineering and design measures of this project have been performed by engineers and experts of Bandar Abbas Oil Refining Company. These measures include the construction of 2 storage tanks for gasoline with floating roof (External Floating Roof) each with a capacity of 250,000 barrels and the construction of 4 storage tanks for gas oil products with fixed roof (Fixed Roof - Cone Type). Each has a capacity of 250,000 barrels. It takes 21 months to implement this project. After technical, financial, economic and social evaluations, one of the capable domestic contractor companies was selected during the public tender process. The implementation of the project with a credit of 1,400 billion rials as well as 802,000 euros began in May this year. There is now 23% physical progress. With the construction of new tanks, the total storage capacity of products in Bandar Abbas oil refinery will increase by 1.5 million barrels. In addition to increasing the storage volume for 10 days, it reduces the risk and continuity of the production process, increases the resilience in accordance with the company's strategy plan, providing part of the tanks of the large plan for the construction of coking units, using all available technical capacities and increase the efficiency of the product transfer and storage system.



*4- Considering the supply of crude oil feed to Bandar Abbas refinery by sea and transportation by ship, do you have a plan to build an oil transportation pipeline to reduce the production risk? Have any studies been carried out to connect the Bandar Abbas refinery to the Goreh-Jask pipeline?*

Continuation of production operations of petroleum products is the main mission of Bandar Abbas Oil Refining Company. In carrying out this mission, the reduction of feed should be prevented, especially in bad weather conditions due to the impossibility of mooring the ship at the origin or destination. Therefore, the supply of crude oil through the pipeline is one of the important projects of this company. In addition to reducing operational risks due to crude oil shortages, the project will increase operational flexibility, reduce crude oil transportation costs, and prevent marine environmental pollution. Also, if crude oil is supplied through the pipeline, it can be used to export the refinery's surplus products by changing the use of the existing oil wharf in Bandar Abbas. Also, in special circumstances, this pier can be used for two purposes. Following the implementation of this project, in order to construct a sub-pipeline for the transfer of crude feed oil from the main Goreh-Jask pipeline, negotiations have been held with the National Iranian Oil Refining and Distribution Company regarding the necessary studies and measures. According to the initial agreements, the necessary permission has been obtained to create a branch from the mentioned pipeline to the refinery to transport crude oil with a length of 38 km and a diameter of 30 inches. Basic design and preparation of preliminary design plans are underway.

*Management and recycling of burner gases is one of the most important environmental programs of Bandar Abbas refinery. At what stage is the implementation of this environmental plan? What are the most important goals and achievements of this project?*

The burner gas management project is defined in two phases. The first phase of the project is dedicated to identifying the sources of sending gas to the burner and implementing preventive measures to reduce the amount of gas sent to the burner. In the second phase, the design and construction of the gas recycling system sent to the burner will be implemented. The first phase was completed at the beginning of this year with the follow-up and efforts of Bandar Abbas refinery specialists. The results of this project include: recycling of gases sent to the burner, reduction of natural gas consumption, reduction of pollutants due to burner gases, reduction of waste, reduction of product waste during operation of operational units, recycling of carbon dioxide from the exhaust unit and treatment plant. Also convert carbon dioxide to products such as dry ice. By exploiting the first phase of this project at the beginning of this year and by conducting surveys and monitoring, the amount of gases sent to the refinery burners in the first 9 months of 2020 reached 13,167 tons. On average, compared to 2019, it has decreased by 58%. In addition to saving energy equivalent to 85 million cubic meters of normal natural gas per year, at this stage the release of more than 170,000 tons of pollutants including carbon dioxide, methane, nitro oxide, sulfur oxides, nitrogen oxides, carbon monoxide and particulate matter are prevented. With the implementation of this important project, in addition to environmental achievements, we can mention the success of Bandar Abbas Oil Refining Company in winning the World Energy Award (Energy Globe) as the only Iranian refinery successful in gaining this international honor in the face of tough sanctions.

*Reducing the volume of furnace oil has become one of the priority programs of the country's oil refining industry. What are the plans of Bandar Abbas Oil Refinery to convert furnace oil into more value-added products? How serious is the implementation of projects such as the construction of oil and gas refining units,*

*naphtha refining and sulfur recycling?*

As mentioned at the beginning of the explanation, Bandar Abbas Oil Refining Company is implementing a project to improve the quality of heavy products. Its most important goal is to reduce furnace oil and produce more value-added products. The amount of furnace oil produced after the implementation of the project will reach less than 10% of the refinery feed. The most important reasons for moving towards the development and construction of new units, especially units for improving the quality of heavy products, are the need for clean fuel in international markets, the need to reduce the production of less value-added fuels, improve the quality of products, produce products in line with world standards. In terms of environmental issues and improving economic performance and profitability, he pointed out more. Naturally, according to the processes performed on furnace oil, products are also produced that in order to improve their quality, solvent de-asphalting units (Solvent De-Asphalting Unit, DAO purification, delayed coking and calcined coke) and Also downstream units of naphtha refining, gas oil refining, liquefied petroleum gas and propylene production, bitumen, hydrogen and sulfur recycling have been seen in this project.

*Bandar Abbas Oil Refining Company has always been one of the leading companies in implementing the Supreme Leader's guidelines to reduce dependence on manufacturers of foreign goods. Provide a report on the situation of domestic production of goods and equipment in the first half of 2019.*

Supporting the ability to build domestically in order to implement the company's internal strategies is in line with the country's policies to preserve national resources and capital. Achieving a resilient economy and increasing production is intended to improve operational processes and continue production. Measures have been taken towards self-sufficiency and localization of parts. In 2019, 281 refinery products with a total number of 14 thousand and 30 pieces and in the first half of 2020, over 93 refinery products with a total number of 3 thousand and 957 pieces were built and approved with the support of capable domestic manufacturers. Many manufactured items are critical parts and equipment of the oil refining industry that ensure continued production. In order to support the construction and internal power as well as the use of the facilities and capacities of the refinery, so far up to 5,093 items of 555,000 pieces for the first time without a preliminary plan and relying on the knowledge and ability of Bandar Abbas Oil Refinery and Also made and used by domestic manufacturers.

Supporting the production of parts in the country last year, in addition to preventing the outflow of currency, cutting dependence on foreign countries, timely supply of parts and reducing operational risks of the production process, leads to technology transfer and localization, development of technical knowledge and job creation. The value of more than 9 thousand and 870 billion rials and of course in the continuation of the policy of supporting domestic producers, many of the needs of the refinery will be met with confidence in the domestic capacity of domestic manufacturers, which so far totals 35 thousand and 939 items in total 20 million and 503 thousand units have been provided through purchases from domestic manufacturers. Among the measures taken to manage parts with a view to supply, localization and domestic manufacturing, the use of existing facilities to consolidate purchases with the necessary prioritization in the form of open contract in the domestic manufacturing process, one of the most important goals is to support capable manufacturers and manufacturers It is internal.



*For the first time in Iran's oil refining industry, Bandar Abbas oil refinery has succeeded in producing hydrochloric acid product. What is the current production capacity of this product, how many thousand tons or liters per year? With its production, will the country need to import? Will there be a surplus of the product in the domestic or export market?*

The specialists of this company succeeded in producing hydrochloric acid with a purity of 99.9% under the defined conditions by using the facilities and capacities available in the refinery by designing two reactors, a converter, perchloroethylene and hydrogen chemical, and now Bandar Abbas Oil Refining Company is able to produce Hydrochloric acid at a rate of 200 tons per year and also has the ability to meet the hydrochloric acid requirements of refineries on request. High purity and high pressure hydrochloric acid is used in refining and petrochemical industries. This material was previously supplied from abroad. In the process of washing the reactors of isomerization units before loading the catalyst is used to produce isomerate (Isomerate) as one of the main components of gasoline production with Euro 5 standard.

*Do you have a plan to diversify the food basket received and increase the share of gas condensate?*

Bandar Abbas oil refinery is one of the country's oil refineries that was designed and built after the victory of the Islamic Revolution and with the efforts of local experts and according to the necessity and need of the country based on heavy crude oil refining. Due to the new and advanced technologies used in the design of this refinery, the industrial development of the refining process of various types of oil and gas condensate and the quantitative and qualitative improvement of petroleum products in this refinery is possible. To date, relying on the ability and knowledge of the experts of this refinery and based on the needs of the country, we have been able to refine the types of crude oil and gas condensate produced in the country and turn them into valuable and quality products in accordance with international standards.



# Mapna is a Model of Resistance Economy in The Country

In the broader business landscape, Mapna, with its presence in the capital market (stock exchange), has anticipated new levers to provide financial resources and private sector participation in advancing various projects and achieving national and development goals in the energy industry. Achieving comprehensive customer satisfaction through the continuous implementation of programs aimed at improving services and products, is a new marketing approach of Mapna Group as a dynamic and distinctive organization in today's highly competitive arena.

## The first electric car charging station in Khorasan Razavi

The first electric vehicle power station was opened in Khorasan Razavi. The electrical equipment of this station has been produced and supplied in the factories of Mapna Group. According to the announcement, in the spring of 2021, the first all-electric and standard bus will run on a bus line in Mashhad. Also, in order to move the city of Mashhad rapidly towards electric transport, a new contract entitled "Development of a comprehensive plan for the development of electric transport in the city of Mashhad" was signed between Mashhad Municipality and Mapna Group. Following the agreements of Mashhad Municipality with Mapna Group in various fields of transportation electrification in Mashhad, on Wednesday, January 8, 2020, the second electric car charging station in the country and the first electric car charging station in Khorasan Razavi were opened in Mashhad bus terminal. This station was put into operation with the aim of developing electric transportation and combating environmental pollution, in the presence of Mashhad Mayor Mohammad Kalaei and Abbas Aliabadi, CEO of Mapna Group. Mashhad electric car charging station has been constructed in Imam Reza (AS) terminal based on the construction equipment of Mapna Group factories. The station has a fast charger (DC) and two slow chargers (AC) that allow charging for all standard vehicles. Electric car chargers in this charging station are designed and manufactured by Mapna Electrical and Construction Engineering and Control Company (Meko). The company offers complete products in the field of electric vehicle charging infrastructure. Despite its reasonable price due to internalization, Meko's products can compete with similar foreign products in terms of technology and quality. The fast charger at Mashhad station has a power of 50 kW and supports two standards, CHAde MO and AC, and is suitable for charging all types of electric vehicles. The slow chargers of this station also have a power of 7.4 kW and standard J1772, suitable for all standard cars.

## Unveiling of Mapna Group of 250 MVA generator and electric motorcycle



The 250 MV generator (200 MW) is the largest air-cooled generator designed and manufactured by Mapna Generator Company, which has been designed and built entirely by local experts. In terms of performance, it is able to compete with the products of internationally renowned companies in the field of power plant equipment. Innovations used by the experts of Pars Generator Company, lead to the improvement of product quality in electromagnetic, thermal and mechanical dimensions. Computational efficiency, which is the most important indicator of generator



performance, has reached a very desirable number of 98.72%. Also, for the first time in the country, the forged core of the 185 MW gas generator rotor was supplied in the factory of Mapna Generator Engineering and Manufacturing Company through cooperation with domestic manufacturers. A contract for the construction of a forged core of a 185 MW gas generator, which is one of the most strategic goods required in the power plant industry, weighing about 39 tons and with a length of 11 meters, was signed between Mapna Generator and Esfarayen Steel Complex in January 1998. It became a strategic commodity. In this regard, for the first time, the heaviest and largest part used in the power plant industry was produced. Previously, the technical knowledge of forging and forging heavy 100 ton parts was in the possession of European and Chinese companies. The dynamic part produced under the name of rotor core has a weight of cast melt of about 100 tons, the weight of raw pre-machined part is 38.2 tons, the length of the part is about 11 meters and the maximum diameter of the part is 1055 mm. On the sidelines of the ceremony, a slatter and an electric motorcycle made by Mapna Engineering and Generator Company were unveiled. The application of the slatter device is grooving the generator rotors made by Mapna Engineering Company and manufacturing the generator. Pars Generator Company electric motorcycle is also designed using in-wheel drive technology. Significant developments are already taking place in the world in the field of power generation, and developed countries and power companies are moving to increase efficiency and effectiveness, as well as reduce the use of fossil fuel power plants and replace renewable power plants to meet environmental and economic requirements. At present, a variety of products including about 190 products are being produced in Mapna Group, and while about 10 years ago, we had more than one billion dollars in foreign currency valuation in Mapna Group, this figure is due to the development of exchanges and activities, due to Capacities in localization have been reduced to \$ 300 million, and certainly with the plans made in the Mapna Group, the domestic production index will increase again and the valuation index will decrease.

## Ferdowsi Combined Cycle Power Plant Steam Unit

The first steam unit of Toos Combined Cycle Power Plant (Ferdowsi) was inaugurated and put into operation with the efforts of engineers and staff of Mapna Group and in the conditions of limitations caused by the outbreak of Corona disease. Toos power plant development project (Ferdowsi) without the use of government funds or the National Development Fund and only with the investment of Mapna and all the main equipment of the plant including boilers, turbines, generators, cooling system and control system has been built in Mapna Group factories. The development project of the steam section of Toos Combined Cycle Power Plant (Ferdowsi), which is located in an area of 60 hectares, 25 km from Mashhad to Quchan road, includes 3 steam turbine units with a total capacity of 480 MW. Increase the production capacity of the plant by 50%, equivalent to 480 MW without the need for additional fuel and save fuel consumption equivalent to 870 million liters of liquid fuel-diesel per year, increase the efficiency of the plant from 33% to 50% (saving equivalent to 870 million liters of diesel worth Liquidity of about \$ 350 million per year), reducing the temperature of flue gases from 520 degrees Celsius to 120 degrees Celsius (equivalent to 800 thousand tons of carbon dioxide per year to reduce environmental pollution) and creating employment for 800 people directly and 1500 people Indirectly, it is one of the achievements of the construction of the steam section of Toos (Ferdowsi) Combined Cycle Power Plant. Implementation of some modern technologies in the field of value engineering, optimization of water supply system of heat recovery boilers and reduction of the number of pumps and related tanks, implementation of water recovery system of boilers, which leads to a significant reduction in cycle water consumption compared to similar power plants Demine (CEDI) and reduction of water consumption of the power plant compared to similar power plants and previous projects are other

features of the construction of the steam section of Toos (Ferdowsi) power plant. Ferdowsi power plant is one of the private power plants owned by Mapna Group and the steam sector development project of this power plant was constructed and put into operation by a reciprocal sale contract with the parent company specializing in thermal power generation.

## Mapna is among the top 10 oil contracting companies in the Middle East and North Africa

Mapna Group was ranked seventh among the top 10 companies contracting engineering, supply and construction contracts in the Middle East and North Africa region. In its latest issue, MEED reviewed engineering, supply and construction (EPC) contracts in the oil, gas and petrochemical industries in the Middle East and North Africa region. According to MEED, Mapna Group has performed well in its domestic market in this industry and has succeeded in concluding a \$ 876 million contract for the development of Parsi and Paranj oil fields with the National Company of Southern Oilfields. In this ranking, the Japanese company JGC for a contract with the Iraqi Ministry of Oil at the Basra refinery and a contract with the Saudi company Aramco for the East Saudi gas field, the Korean engineering company Samsung for contracts for the reservoir gas storage project in Saudi Arabia and the Hasi Massoud refinery project in Algeria, Spanish company Tecnicas Reunidas are in first to third place for a joint contract with Samsung to operate the Algerian Massoud refinery and another contract for the installation of a brackish water unit at the Aramco refinery. China Petrochemical Engineering is fourth with seven contracts in Algeria, Iraq and the United Arab Emirates. The fifth, sixth and eighth EPC contractors in this ranking are Egyptian companies Petrojet, NPI and Egyptian Petrochemical Construction, which have signed contracts to operate hydrocarbon projects inside Egypt. Adverse global conditions. French company TechnicFMC is ranked ninth. This rank is achieved thanks to the company's contribution to the EPC project of building a hydrocracking complex at the Asyut oil refinery in Egypt. The final ranking of the list belongs to the Greek company Archirodon, which has received a contract from Adnoc Onshore Emirates for the development of the Abu Dhabi oil field.



## Contract for improving the recycling, increasing production and operation of Parsi and Paranj fields with Mapna Group

Parsi oil field is located in South Dezful region, 125 km from Ahvaz city. The field was discovered in 1954 and its exploitation began in 1956 with a daily production of 7,400 barrels. So far, 89 wells have been drilled in it. Paranj Square is located between Karanj and Parsi squares, along the southeast-northwest, 75 km from Behbahan city and 40 km from Ramhormoz. Exploitation of this field started in 2007 and so far 11 wells have been drilled in it. The contract for improving the recycling, increasing production and exploitation of Parsi and Paranj fields was signed between the National Iranian Oil Company and Mapna Group on February 10, 2019. The term of this contract, which has been prepared in the form of a contract oil model for the south, is 10 years. The increase of 33,000 barrels of oil production in these fields (including \$ 50 per barrel) according to the goal of the contract, is one million and 650 thousand dollars of daily income for the country and the implementation of this contract, while creating wealth, is a good opportunity for Mapna Group and companies. It will create more domestic and more benefit from the potential of Iranian and local experts and human capital in oil and gas development projects. Drilling 29 new wells, repairing eight existing wells, performing artificial overflow operations using gas, installing in-well pumps in 45 wells, and performing slit-layer operations and installing a core pipe are some of the activities described in the underground work description of this contract. In the land sector, activities such as optimizing and increasing the capacity of existing facilities, construction of gas collection and boosting units, construction of independent desalination unit, construction of oil and gas transmission pipelines and gas.

A Glance at Achievements of National Iranian Oil Company (NIOC) During 11th and 12th Gov'ts

# "Prudence and Hope" Remains in the National Iranian Oil Company

The National Iranian Oil Company (NIOC), as the leader in the national oil and gas production, plays a key role in the economic, political and social development of our country. An important part of Iran's development and economic goals is defined based on the activities carried out in this giant national company. During the seven years of the government of prudence and hope, the company has experienced many ups and downs in the face of the increasing restrictions imposed by the unilateral sanctions imposed by the West. Nevertheless, adhering to the two principles of self-confidence and relying on internal strength made this company once again able to emerge from the flood of events as it did in the past. With precise planning, these critical conditions turned into an opportunity for the growth and promotion of domestic activities of the oil industry and the excellence of private companies active in the field of oil and gas. In order to achieve the goals defined in the Development Vision Document, the National Iranian Oil Company has made achieving maximum conserved oil and gas production - with a focus on joint fields - as its priority. Vision documents are based on this priority; achieving this goal as well as promising a new era in the field of international interactions opens a new chapter in the development of economic and political activities in this region. The development perspective of our country's oil industry has set a goal to increase the daily production capacity to 4.7 million barrels of oil, 1.3 billion cubic meters of gas and 1.1 million barrels of liquids and gas condensate in the horizons beyond the Sixth Five-Year Development Plan. Accordingly, from the beginning of the Twelfth Government, increasing production capacity with putting emphasis on joint oil fields and along with increasing the recovery factor of oil and gas fields were introduced as two strategic plans of the National Iranian Oil Company. Based on this, it was decided to determine the fate of all shared fields by the end of the twelfth government. The development of joint fields is being considered as the first priority of the National Iranian Oil Company. As the arm of production and development of the oil industry, this company has been able to achieve most of its goals in the field of South Pars joint gas fields, West Karun oil fields and joint oil and gas fields in the offshore fields. Meanwhile, the performance of this company during the eleventh and twelfth governments indicates significant successes in this regards, despite the bottlenecks and unilateral pressures of the West in the post-conflict period and restrictions due to stoning in oil and gas exports to the supply and supply of equipment. The basis of Iran's oil industry and the prevention of joint cooperation in the transfer of knowledge and technology and many other things has been achieved. Inauguration of the first phase of the South Pars oil development project in the 11th government and increasing the crude oil production capacity fivefold from the joint fields of West Karun in the government of prudence and hope, as well as achieving 400,000 barrels of oil production capacity in these fields have been some of those achievements and it has been one of the fields out of the shared fields, which has been practically fulfilled with the commitment to determine the tasks of all common gas and oil fields until the end of the twelfth government.



The volume of explorations carried out during the last 2 years in the National Iranian Oil Company has enabled this company to discover a total of 4.973 billion barrels equivalent to hydrocarbons of extractable storage liquid, to become the first exploration among the world's largest oil companies in 2019. This honor will remain in the history of Iran's oil industry.

**Completion of South Pars development and achievement of daily production capacity of one thousand million cubic meters of gas**

South Pars, as the most important and largest project in the history of Iran's oil industry, is the result of more than two decades of day and night efforts in the oil trench and today, with the help of these efforts, the completion of projects related to 28 phases of this joint field is in the final station. Practical steps have been taken to create a daily production capacity of one thousand million cubic meters of gas in the country in the near future. According to the plan, with the full development of the phases defined in South Pars, the gas production capacity of this joint field will reach more than 800 million cubic meters per day plus gas condensate in addition to one million barrels per day. This issue will be in line with the tasks of increasing oil and gas production, which is one of the specialized axes of the resistance economy in the field of oil and gas.

**Construction of Goreh-Jask pipeline and Makran export terminal; One arrow and a few badges**

One of the most important ongoing projects of the National Iranian Oil Company in the direction of comprehensive development of the oil industry is the strategic and national plan to transfer Goreh crude oil to Jask and build the export terminal of Bandar Jask with the aim of developing joint fields west of Karun, increasing storage capacity. Crude oil and the definition of a new Iranian oil export highway are on the agenda. Implementation of this important project that the possibility of transporting one million barrels of light and heavy crude oil per day through a pipeline with a length of approximately one thousand kilometers and by building pump houses and artillery stations with substations and transmission lines Provides, July of this year officially began by order of the President. This project is currently considered as the most strategic plan of the government. This project is also known as the most Iranian project in the oil industry due to the high volume of Iranian contractors present in it. While empowering domestic contractors and builders and providing significant valuation, a suitable platform is provided for the construction of strategic equipment in the oil industry. Until now, this equipment was supplied from abroad. For example, we can mention the creation of NACE pipe production chain in accordance with acidic oil and the production of raw materials for FBE pipe coating. This has happened for the first time in the country with the trust of domestic manufacturers.

**Improving oil knowledge in the field of exploration**

The National Iranian Oil Company is on the way to implementing strategies related to technology development in the upstream sector, increasing the amount of discovered and proven oil and gas reserves in the country. This will maintain and strengthen the real position of the country's oil industry among the oil exporting countries (OPEC). Increasing competitiveness at the international level will also be based on

modern technologies. Other significant measures have been taken by the research and technology management of this company. These measures have been based on the maximum use of the country's scientific potential in the form of university research centers, growth centers and science and technology parks and knowledge-based companies.

**Research indicators of the oil company in the government of prudence and hope**

During the last seven years, the Research and Technology Management of the National Iranian Oil Company has taken other effective measures in the field of concluding contracts with universities and knowledge-based centers. One of the most significant of these measures is conducting research studies. Technologies were developed to optimize production processes and increase the coefficient of extraction in 22 selected oil / gas fields in the country. These projects started in 2017 and are scheduled to be completed by 2027. In the field of national companies in the southern oil-rich regions, the Iranian Offshore Oil, Arvand Oil and Gas, Pars Oil and Gas, Central Iranian Oil and the Oil Engineering and Development Company are implemented. The implementation of these projects will lead to a one percent increase in the yield in 22 fields, which is estimated at 3.2 billion barrels and equivalent to 190 billion dollars (including \$ 60 barrels). In the implementation of these contracts, the power of 3 universities and research centers is used directly, and each of these universities / research centers acts and cooperates in networking with other universities in the country and consulting engineering companies and knowledge-based companies.

**Fruitful record of production and breaking the record of crude oil exports in the aftermath**

In order to achieve its goals in the international arena, the National Iranian Oil Company has on its agenda the increase of oil and gas maintenance production capacity as the axis of the company's activity. This goal has been achieved within the framework of maximum benefits in harvesting from common fields. Much of the activities of the Eleventh and Twelfth Governments in the face of unilateral Western sanctions were accompanied by sanctions on Iran's oil and gas exports. This could not divert the National Iranian Oil Company from its original goals. In the short time after Borjam, the National Iranian Oil Company was able to increase its oil production capacity to more than four million barrels per day, a significant part of which was in the field of joint fields. In the field of gas production, the goal was to achieve a daily production capacity of one billion cubic meters, which is achieved by achieving the large joint field of South Pars and increasing production in other independent gas fields in the country.

**A prolific record of oil in the midst of restrictions**

In reviewing the other achievements of the National Iranian Oil Company in the government of Prudence and Hope, we can see the measures taken to achieve the production capacity of 140,000 barrels of oil in the South Azadegan field and the production capacity of 400,000 barrels in the joint fields of West Karun. However, a significant part of the development measures have been done this year. The implementation of these projects, along with thousands of other plans and projects has brought a defensible performance record for the National Iranian Oil Company. The company, as the second largest oil company in the world, despite all the constraints it has faced over the past seven years, has been able to play an effective member in all economic, political, cultural and social pillars. It also tried to play its part in the prosperity of dear Iran in the best possible way.

Public Relations National Iranian Oil Company

**Achieving the first rank of hydrocarbon exploration in the world**

The National Iranian Oil Company has achieved significant achievements in the realization of its exploration programs as the first step of our country's oil industry activities in the upstream field, and as a result, it has been able to fulfill more than 130% of oil exploration commitments and 170% of all commitments. Gas exploration will be achieved in the first half of the five-year exploration program. The Exploration Management of the National Iranian Oil Company has managed to record three explorations in its portfolio since the winter of 2018. These explorations began with the discovery of the Minoo oil field on Minoo Island near the city of Abadan. Finally, last summer, the Eram gas field was discovered. Eram gas field is located 200 km south of Shiraz and has reserves of 19,000 billion cubic feet (equivalent to one phase of South Pars) in situ gas. Its exploitation can earn the country \$40b.

## Achievements of the National Iranian Oil Company from 2014 to 2021

### "Yadavaran" oil field development plan

**Khuzestan**  
province, project specifications

**Geographical location:**  
"Yadavaran" oil field is located 10 km southeast of Azadegan field and about 70 km southwest of Ahvaz, north of Khorramshahr and in the geographical area of Kushkak and Hosseinieh and is one of the common fields with Iraq. "Yadavaran" large oil field includes There are 2 squares, Koushk and Hosseinieh.

### Effectiveness in the Economy and Development of the country

**Monetization and Foreign Exchange Bias**

Currency Savings  
**40 \$**  
Million

Cumulative production  
**202**  
Million Barrels

Production Capacity  
**130,000**  
Barrels Per Day

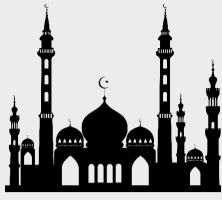
**Sending Food to the Hoveyzeh Health Network to Fight the Corona Virus**

**Allocating a Car to the Hoveyzeh Health Network to Fight the Corona Virus**

**Helping to Rebuild Several Houses in Rafi**

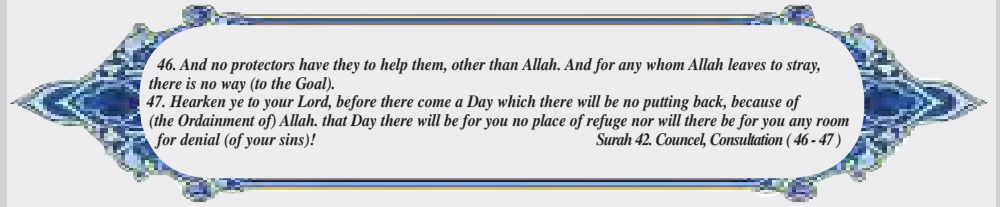
**Building a Stadium**

Social responsibility



**PRAYER TIME**

■ Noon (Zohr)	12:18
■ Evening (Maghreb)	17:58
■ Tomorrow's Dawn (Fajr)	05:31
■ Tomorrow's Sunrise	06:56



**Iran to Return to...**

FROM PAGE 1

Ayatollah Khamenei made the remarks in Tehran on Sunday during a meeting with commanders, pilots, and staff members of the Islamic Republic of Iran Air Force (IRIAF).

The meeting was held on the anniversary of a historic development that came days before the 1979 victory of Iran's Islamic Revolution that deposed the former US-backed Pahlavi regime. The event saw Homafaran, Pahlavi's air force officers, breaking away from the monarchical regime and pledging allegiance to the late founder of the Islamic Republic, Imam Khomeini.

In his Sunday's remarks, the Leader said it was the "definitive and irreversible" policy of the Islamic Republic that the United States ought to first fully eliminate the sanctions before Iran could reverse its retaliatory measures.

"The Americans and the Europeans have no right to set any conditions [of their own] as they violated their JCPOA commitments," Ayatollah Khamenei said, adding that Iran would pay no heed to the "idle talk" of some "undeserving" American and European officials in this regard.

"They initially put some of the sanctions in abeyance for a brief period, but then reimposed and even intensified them," Ayatollah Khamenei said in reference to Washington and its allies' initial limited compliance with the JCPOA. Therefore, they have no right to come up with any conditions, the Leader reiterated. Ayatollah Khamenei pointed to Washington's past failures to hurt Iran's Islamic establishment as one of its numerous miscalculations concerning the country.

The Leader particularly recalled Trump's national security advisor John Bolton's failed prediction that Washington would successfully enable a "regime change" in Iran by early 2019.

"One of those very first-class idiots had said two years ago that they would be celebrating the New Year in Tehran in January 2019," Ayatollah Khamenei noted. "Now, that person has entered the dustbin of history and his boss (Trump) has been kicked out of the White House in a humiliating manner. By God's grace, though, the Islamic Republic still stands tall," the Leader noted.

Ayatollah Khamenei named the U.S. support for the riots that broke out in Iran in 2009 as another instance of Washington's miscalculations in its efforts to bring about the collapse of the Islamic Republic.

Washington's excessive trust in the Pahlavi regime's military, the Leader said, was yet another calculation that was proven wrong when the air force personnel turned their backs on the US-backed regime.

Ayatollah Khamenei described the officers deserting the army and joining the masses of revolutionary people as a "miracle-like" development that hugely contributed to the Revolution's victory.

He also pointed to Trump's chaotic final days in the White House, which culminated in the invasion of the Capitol Hill by his extremist supporters. The Leader said the incidents were not to be underplayed and judged only in light of the twilight of an American president. Rather, those developments in fact marked "the twilight of America's reputation, power, and social integrity," he noted.

He advised the Iranian officials to always beware of the enemy and its error-riddled calculations and "constantly increase the constituents of national power." He hailed the recent back-to-back military exercises featuring the Army and Iran's Islamic Revolution Guards Corps (IRGC) as attempts by "the children of this country to boost national security," calling the maneuvers "a cause for pride."

Ayatollah Khamenei, meanwhile, denounced certain regional states for relying on extra-regional sources for their own security, noting that those very same foreign powers would desert them when their assistance is required.

The Leader cited the likes of Iran's monarch including Egypt's Hosni Mubarak or Tunisia's Zine El Abidine Ben Ali as examples of regional rulers who mistakenly placed their trust in foreign powers.

**Any Israeli Attack to...**

FROM PAGE 1

Takht Ravanchi warned about any Israeli military adventurism against Iran, adding, "We reserve our natural right to defense, and will give a decisive response to any threat or incorrect move by the Israeli regime."

"It is perfectly clear that the Israeli regime must shoulder full responsibility for its unbridled and incorrect moves," he warned, calling on the Security Council to confront Israel's "destabilizing" policies and "hawkish" moves.

**Biden Does Dare...**

FROM PAGE 1

To understand this option better by the public and the U.S. policy-makers, the writers of this report in the think tank have explained how the U.S. security policies under a grand restraint strategy changes in the key regions and have raised many important unanswerable questions, and they have explained, elaborated and analyzed the next steps of this option and its political consequences, and have also warned the risks of the introversion strategy.

The writers of the report have come to this conclusion that regional policies, under the grand strategy of prioritization depending on the level of the U.S. interests and the risk of dominance of a powerful country in the region, will be variable.

Due to China's considerable military capability, advocates of reconsideration policy in hegemony due to the domestic woes in the U.S. want the country to have more military role in the East Asia for protecting the U.S. hegemony against China than other regions.

Theories and evaluations of pro-restraint stance and the strategy of prioritizing the threats have been different with the theories and assessments of the policy-makers who have formed the grand U.S. restraint strategy since the Cold War era. On the whole, the intellectuals in this political and military think tank believe in diplomacy for settling the conflict in the interest, and in defending the vital U.S. interests, and they encourage other countries to keep their superiority and military power. They strongly believe that if the grand restraint strategy has been adopted, the U.S. will have a smaller army and its overseas commitments and troop deployments will be decreased, and using military force will face more hurdles than the current policies. So the country in the short time has to give up most of its stances in alignment with its political partners. Being aware of certain consequences in making decision regarding this grand strategy from one region to the other region will be variable depending on the level of the U.S. interests and the risk of hegemony of a power in the region.

Advocates of this strategy seek a more constructive approach with the U.S.'s current rivals like Russia and Iran. The U.S. strategy in the Asia Pacific region which is considered as the most important region has divided the supporters of the change in the strategy. They believe the emergence of a strong country in Asia, Europe or in the Persian Gulf will limit the vital interests of the U.S. or even threatens it but they have not offered and transparent and far-sighted instructions to the politicians inside the government or their allies in the world to set a prospective for important decisions and ways of rising of this threat.

To present more accurate policies in each region, think tanks and intellectuals and even intelligence services should make its realm stronger by preparing a comprehensive policy and have double analysis. They believe time will play a key role in presenting the strategy of the game. They emphasize that the decision-making structure in the administration has not even reached a relative convergence in order to link the prospect of resolving the internal problems along with a lasting policy in direction of protecting a structure to its allies abroad.

The American Rand Corporation has paid less attention to this point that the trend of the U.S. hegemony in introversion for showing and magnifying the power needs a heavy budget and the U.S. in the current condition has no way but to solve its domestic problems through decreasing military budget with dramatic application.

The danger of humiliation against China in West Asia is understandable for all political-defense experts in the U.S. but the Administration's heavy and growing debts and the needs for adopting domestic détente policies have made limited and even impossible the decision making between two indisputable actualities for setting the strategy.



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## Iran Petrochemical Output Capacity to Reach 100m Tons

TEHRAN (IRNA) - Oil Minister Baijan Zanganeh said on Sunday that Iran's petrochemical output capacity will reach 100 million tons a year by 2022.

Zanganeh made the remarks at the inauguration ceremony of the 14th Int'l Exhibit of Plastic Industry in Tehran.

He said that Iran's petrochemical revenues would reach 25 billion dollars per year by 2022, adding that plans got underway to bring the amount to \$37b by 2026 with the output capacity growth to around 133 million tons per year.

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## Iran Growing Independent in All Areas

TEHRAN (IRNA)- Iran is cutting all sorts of dependence, said Islamic Revolution Guards Corps (IRGC) Commander Major-General Hossein Salami on Sunday, adding that sanctions are a historic opportunity for the Iranian people.

On the sidelines of Science and Technology Fighters Festival, Salami said that country, besides the necessities of advancement, there are great potentials in science, industry, economy and technology spaces, as reported by IRNA political correspondent.



# Persian Gulf star

## A Symbol of Self-Confidence and Development in The Country's Refining Industry



The CEO of the Persian Gulf Star Oil Company described the refinery's one-year outstanding actions. He spoke about the plan to shine the star of the Persian Gulf to increase the shine in the country's refining industry. According to the public relations of the Persian Gulf Star Oil Company, Mohammad Ali Dadvar «congratulated the staff of the Persian Gulf Star Oil Company and his family on the Fajr decade, who have a serious duty to protect the security of the country's fuel basket by enduring all hardships. He called the personnel Iranian-Islamic economic Mujahideen and added»: Unfair sanctions against the country have made it difficult to export products. It has also been effective in severe fluctuations in sales prices and demand. However, we have made every effort to make the currency worthwhile.

### Export achievements

The export gains of the Persian Gulf Star Oil Company have reduced the effects of sanctions. Dadvar said. Due to the production of the strategic gasoline product of this refinery and its supply by the National Iranian Oil Company, the country has become unnecessary from the import of this product and has become self-sufficient. The country has also become the largest exporter of gasoline in the region. This has helped the country achieve its export goals.

### Brilliant presence in the energy exchange market

He also referred to the special role of this refinery in the energy exchange market and said: Persian Gulf Star Oil Company has a decisive role in the market due to the scale of production and variety of products. In the fall, 140,000 metric-tonnes of light naphtha were delivered in a single supply. A historic day in the country's stock market. The CEO of Star Persian Gulf Oil Company added: Until now, this volume of products had not been sold in the domestic ring. We hope that with the efforts of the hardworking staff of this refinery, we will continue to see more shines of the Persian Gulf star in the country's refining industry. Regarding the importance of this historic offering, he said: This action was taken to act on the advice of the Supreme Leader on creating added value and preventing the sale of raw materials. Light naphtha is the feed of the country's petrochemicals and can help feed downstream industries and boost production in the country.

### Localization of sensitive parts

He referred to the localization of the refinery's sensitive electronic components. These components included a solenoid valve, a temperature transmitter and a motor-operated valve. Other measures have been taken, including: changing the use of some reservoirs in order to improve the storage process, modify control systems and optimize and increase capacity in the production process at the lowest cost. He said: With the efforts of the youth of this refinery, we were able to prevent the waste of financial resources and also reduce dependence on foreign products.

### Efforts for development

Dadvar pointed to the successful implementation of the first phase of the plan to increase capacity and eliminate bottlenecks in the three phases of the refinery. He said: Currently, various projects are underway to improve the processes in the Persian Gulf Star refinery. These projects include the North Gas Station project, the Cal Station, the refinery entrance gate, two two-million-barrel storage facilities, and the Central Warehouse project.

### Currency savings

The CEO of the Persian Gulf Star Oil Company announced the construction of a 26-inch transmission line from this refinery to the Shahid Rajaei oil depot. He said: By canceling the outsourcing of this project and trusting in the ability and knowledge of the engineers and workers of the Persian Gulf Star Refinery, 85 billion rials were saved. Modification of the design and construction of dryer converters of the refinery of this refinery using waste, shows the ability of the star engineers of the Persian Gulf. In this case, too, 18 billion in foreign exchange savings were made.

### Superior device in the field of passive defense

He added: The efforts of my colleagues around the clock have strengthened the infrastructure. The center of gravity of the world's largest gas condensate refinery is secured against enemy threats in an emergency. The choice of this system in the field of passive defense is also important.

### Refinery risk reduction

The judge announced a reduction in the risk rate of the Persian Gulf Star refinery from 1.35 to 1.2 in a two-year trend. He added: If we continue with this trend, we can reach a risk rate of 1.1 by 2022. This measure is large and important.

### Launching a specialized counseling center

He also referred to the launch of the «2300» telephone consulting system in this refinery and added: This is a

leading system for employees and their families.» The services of this system include specialized counseling in the fields of medicine, improving labor relations and social work, and individual, family, marriage, education, job, etc. psychology.

### Strengthen communication with scientific centers

The CEO of Persian Gulf Star Oil Company emphasized on establishing a proper connection between this refinery and the prestigious universities of the country and added: We established close relations with centers such as the University of Tehran, Hormozgan University, the General Directorate of Technical and Vocational and the National Elite Foundation. This relationship will be very effective in educational, research and elite introduction processes.

### Distribution of three thousand livelihood packages

Dadvar further referred to the unique actions of the Persian Gulf Star Oil Company in the field of healthcare. In the past year, other measures have been taken for social responsibility, he said. These measures include: continuing to build the most modern and well-equipped hospital in Hormozgan province, protecting the GNU biosphere and an endangered species of Iranian leopard, setting a record for the implementation of more than 70 hectares of green space, distributing 3,000 aid packages and dozens of cultural and social activities, Charity and other religious.

### Request to facilitate entry into the capital market

In the end, Dadvar said that helping to solve the foreign exchange debts of this refinery facilitates the entry of the Persian Gulf star into the stock market and emphasized: considering the increase in the exchange rate, the exchange rate of the loan in Rials will be about 80,000 billion Tomans. We are currently negotiating with the Central Bank so that we can repay these facilities in Rials, but the mechanism for converting these foreign currency loans into Rials has not been finalized yet, and we are still pursuing this issue.