

Date :
Number :



in the change of the winds
sings for those that are wise
Holy Quran (Chapter 45 , Verse 6)

BADRAN PARS NIROO (PUBLIC JOINT STOCK) INTERNATIONAL COMPLEX COMPANIES

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Asian Head Office : N.9 , 3rd Floor , Anahita Camer-
cial Center , Faramarz Abbasi Blvd , Mashhad ,Iran
Tel : +98511 - 6089608 +98511 - 6040032
+98511 - 6060164 Fax : +98511 - 6096447
South Korea : 00821022913288 Germany : 00491638127
Austria : 0043676879938454 USA : 0014085995909

Europe Head Office : Herengracht 282 , 1016 BX Am-
sterdam , Netherlands Tel : 0031685546539
IR : Tehran : +9821 - 64545230 +98912 -1016540
Canada : 00107607058888 Iraq : 009647801003784
China : 008613423897676 Italy : 00393661045440

Figure 1: Iran's Wind Atlas 40 m above Ground

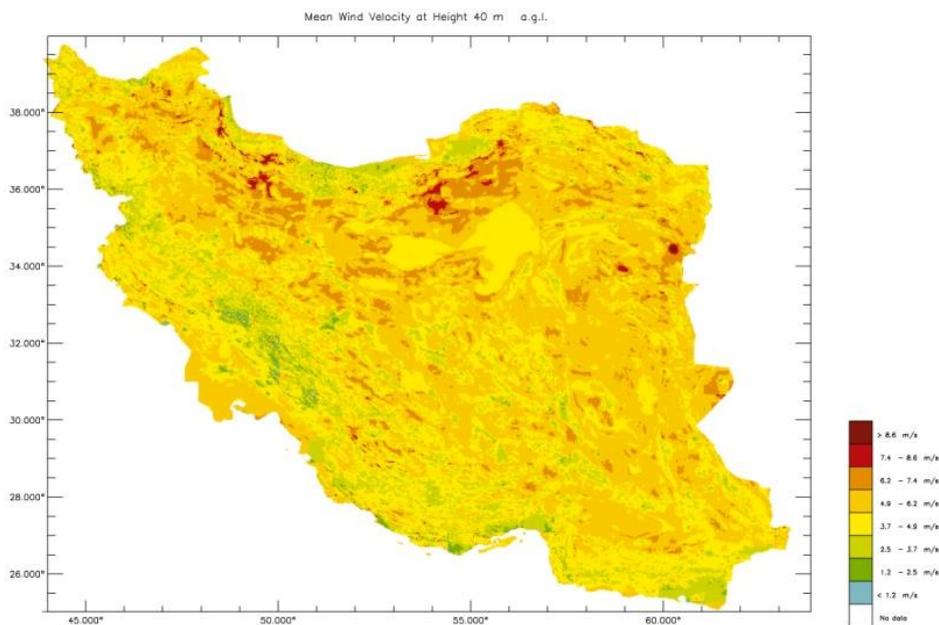
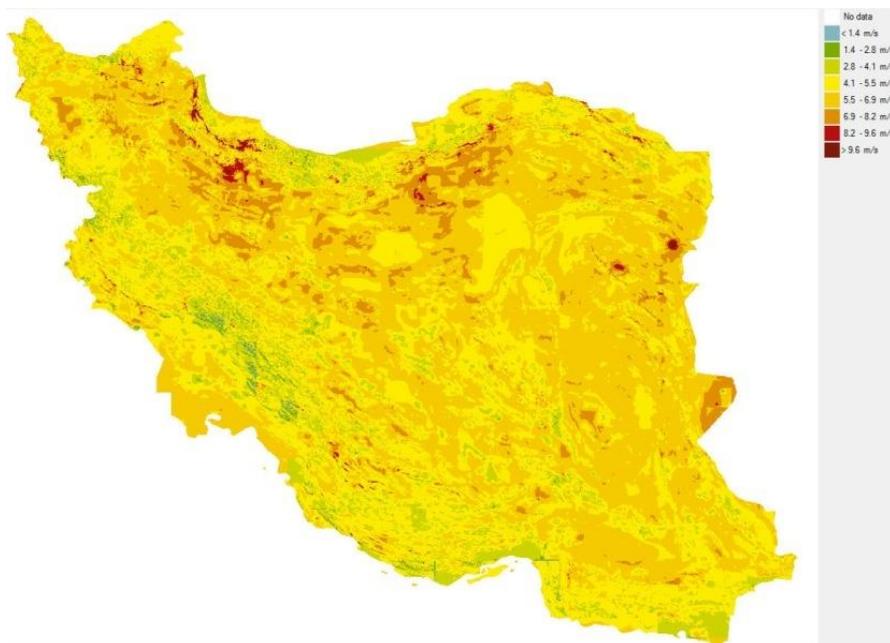


Figure 2: Iran's Wind Atlas 80m above Ground



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Iran is situated in South-Western Asia and borders the three CIS states, the Republic of Armenia, the Republic of Azerbaijan, and the Republic of Turkmenistan, as well as the Caspian Sea to the North, Turkey and Iraq to the West, the Persian Gulf and the Gulf of Oman to the South, Pakistan and Afghanistan to the East. There are four different available locations for harnessing offshore wind such as: Persian Gulf, Caspian Sea, Urmia Lake and Gulf of Oman.

The results of a study about offshore wind indicated that Iran's offshore resources are promising, situated close to the densely populated islands and coastal cities along the coastlines of Persian Gulf, Caspian Sea and Gulf of Oman. Iran's Macro Planning on Energy is optimized utilization of Fossil Fuel Resources and improvement in exploitation of diversified resources of renewable energy to supply a portion of the country's ever increasing energy demand. Iran is among the countries with richest resources of energy and in addition to huge reserves of fossil fuels and nonrenewable sources of energy such as oil and gas, it enjoys a marked potential of renewable energies such as wind, solar, biomass and geothermal.

Further to the policies drawn by Ministry of Energy, SUNA was assigned since 1996 to implement the above objectives and acquire the up to date information and technologies for utilization of renewable energies' resources, evaluate the potentials and implemente numerous projects (Solar, wind, geothermal, hydrogen and biomass) , guaranteed purchase and sales of electricity generated from renewable sources with the aim of attracting private sector's participation in this field, study the research policies in order to prepare the comprehensive plan for development of renewable energies in the country and provision of knowledge and training in this field.

As of early 2000, the volume of activities of SUNA and its diversity caused the Ministry of Energy to propose to the Council of Ministers the possibility of SUNA to become a state organization, filling the gap of an executive body in the government for development of renewable energies. Council of Ministers eventually agreed with establishment of SUNA as a state company on 27.02.2000. Worthy to mention that organizations such as Iran Nuclear Energy Organization, Ministry of Agriculture and Iranian Fuel Conservation Organization were also involved in this field, but with the aim of optimization and effective utilization and exploitation of renewable energy, Supreme Administrative Council, based on parliaments resolution on 18.12.2004, centralized all missions and legal operations on renewable energies in Ministry of Energy and the Ministry assigned this responsibility to SUNA as of 21.03.2005.

It is necessary to note that the responsibility of activities related to wind operated water pumping facilities and solar water-heating systems remains with Iranian Fuel Conservation Organization.

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In late 2006, upon restructuring of Ministry of Energy and formation of Bureau of Electricity and Energy Deputy, office of new energies which was the headquarters of this field in the ministry, was merged into SUNA and all the staff and their at hand projects were also transferred to SUNA office.

SUNA has taken effective steps in planning, policy making, providing solutions and publicizing of information in this field such as:

Studying of research policies for specifying the framework of country's renewable energy strategy, wind and other renewable energy resources development plan and other activities on promotion and publicizing such as participation in exhibitions, organizing of training courses, arranging for scientific visitations from renewable energy generation sites and publishing books and specialty publications. At the same time, SUNA has played a key role and effectively cooperated with the Renewable Energy Headquarters of Vice-Presidency for Science & Technology with the aim of creating synergy among all those having a role in promotion of renewable energy in the country.

One of the most important responsibilities of SUNA as the national focal point and coordination center of research and operation activities in the field of renewable energy, is creating the proper ground for study and execution of pilot projects and design and construction of power plants with participation of state and private sectors and outlining the proper path of access to diverse resources of renewable energies by utilization of high capacities and potentials of the country.

Important measures have been taken for development of renewable energies in regard to deployment of sustainable development and we witnessed an important event in this field in July 2015, i.e. Ministry of Energy started purchasing the electricity generated from renewable resources at different price levels and respective power purchase contracts previously valid for 5 years are now increased to 20 years. More information is available in the "Power Purchase Price from clean and Renewable Sources" section of SUNA website

Of other measures taken in line with sustained development we can name the allocation of specific credit line for imposing a levy of 30 Rials/KWH for consumption of electricity (Article 69 of year 1392 [2013-2014] Budget Law) and the permission for concluding Buyback contracts with state owned and private sector investors using local equipment up to a ceiling of a hundred and twenty thousand billion Rials (Article 19 of Year 1392 Budget).

It is planned for 5% of the national generation of electricity to be from renewable sources.

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Wind Energy Legislation

The Parliament of Iran had generated article no. 62, for the adjustment of financial rules of the approved government in The Third Plan and also being emphasized on the Fourth Economical/Social/Cultural Plan of IRIB submitting the responsibility to the Ministry of Power to purchase the renewable electricity produced by non-governmental suppliers.

In addition, to motivate investment in this field, the ministry decided in November 2008 to double the guaranteed renewable electricity buying price (Feed-In Tariff) to 1'300 Rail/kWh (0,13 USD/kWh) in peak time and 900 Rail/kWh (0,09 USD/kWh) in decline time (at the factory itself).

One of the wind energy related projects which have been carried out by Iran's Power Ministry was persuading private sectors to invest in wind farms by installing wind turbines with medium size (660 kW) in different areas of the country - such as Tabriz (in the North-West), Sistan (South-East), Ahvaz (South) and Shiraz (South-West).

Given current capabilities, using of 2 mw wind turbines is one of the most important plans of private sectors in Iran and for this reason; **Badran Pars Niroom** Co as the only Iranian public joint stock company which has 200 shareholders is acting in field of renewable energies and is looking forward to transfer the technology of 2 mw wind turbines. It is possible to manufacture small scale wind turbines in Iran from 200 w to 100 KW and this company by receiving the first license & permit for construction of wind turbine production line is going to establish Industrial cluster of clean energy in Iran by private sector investment.

Iran is fully prepared to guaranteed investment attraction in the wind energy industry in order to produce 2 MW wind turbines and according to state legislation in building 5'000 megawatts of wind power plant and the signed contract to build 2,000 megawatts of wind power between

government and the private sector, establishing 11 production lines is needed. Ownership transferring of two Iran's wind farms in Binalood & Manjil to private sector which has done by Iran's Power Ministry, indicates the importance of wind energy development for Iran's government.

During the years 2012 and 2013, Iran has had significant growth in creation the infrastructures of renewable energies industries especially in wind energy. **Badran Pars Niroom Co (Public Joint Stock)** is formed by presence of several Iranian professors & experts who are acting in energy fields and by creation a wide market in Iran, some other domestic and foreigner banks have joined as new partners so that by establishing Iran Energy Support Organization (IESO), the wasted energy would be decreased.

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Municipalities in Iran are looking forward to develop renewable energies in the process of building as for example, the use of solar & wind power as the emergency power is required by Mashhad Municipality & Mashhad Construction Engineering Organization in order to issue the permits for construction and operation of buildings that with this legislation, the demand for wind turbines and solar panels will increase like other construction materials.



BPN Main Policies

One of the main policies of BPN complex is communicating & interacting with international formations, unions & associations in the field of renewable energies so that by using these relations, provide areas for investment and transferring the technology of wind turbines to this ancient country.

With the establishment of the new Iranian Government, BPN co. in cooperation with BPN is looking for long term contracts which will be in accordance with the capacity of renewable resources and doing feasibility studies in the various spheres of energy.

It is worth noting that in accordance with the third five-year development program of Islamic Republic of Iran, subsidies for industries, mines and agriculture is supposed to be eliminated and this matter will cause to increase the demand for the use of renewable energies in Iran.

Introduction

Today's world is filled with wondrous and diverse changes accompanied by emersion and promotion of modern technologies. The sun provides enough power in a single hour to meet the energy demands of all humanity for an entire year. Scientific communication and interaction among nations is absolutely necessary to harness this power for the benefit of our progeny.

The Renewable Energy Organization of Iran (SUNA) is determined to promote the extensive utilization of renewable energy. Raising awareness domestically and internationally will benefit not only the people in Iran, but all mankind throughout the globe. It is critical for us to build credibility, maintain professional accountability, and spur investment in renewable energy.

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BPN goals include the following:

Formulating renewable energy policies aiming at mitigating the environmental impact of fossil fuels.

1. Understanding the priorities for international affairs.
Monitoring the needs of our organization and the needs of entities interested in direct foreign investment
2. Assessment and analysis of opportunities for international communication.

Processes and Implementation

Assessment and analysis of terms and benefits of using renewable resources.

Translation and regulation of required international documents in order to make use of experiences, expertise and propagated international knowledge of institutions and organizations.

- Coordination with foreign officials and cooperation in the preparation of contracts: international, bilateral, and multilateral agreements.

Participation in regional and international meetings for the mutual benefits attained by renewable energy sources.

Evaluation of programs related to meetings with esteemed diplomats, managers, foreign companies', experts and other foreign guests.

- Presentation of proposals within the scope of organization's duties and authorities.
- Analysis of incoming and outgoing documents pertinent to attendance at international meetings such as: IRENA, ECO, ISESCO, G15, D8, United Nations industrial development organization (UNDP), United Nations Framework Convention on Climate Change (UNFCCC) and so on.
- Examination of technical papers and all documents related to the workshops, conferences and international educational seminars.
- Process of coordinating with foreign guests regarding formalities at the organization.
- Inspecting the facilities and capabilities of the organizations and reliable international financial institutions with the aim of identifying ways to attract direct foreign investment
- Registration and maintenance of all classified records, information, documents and specialized resources related to international affairs.

Presentation and negotiation of appropriate solutions with the assistance of the Islamic Republic of Iran's embassies in the countries with high technologies in the field of renewable energy to draw the participation of foreign investors depending on the capabilities and technological capacities for equipment production domestically.

- To strengthen the relationship between research and development centers with similar goals

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Aref Khojaste

CEO & Vice Chairman of the Board of Directors of BPN (Public Joint Stock)

Aref Khojaste

CEO & Vice Chairman of the Board of
Directors of BPN (Public Joint Stock)

Mashhad, Iran

Email: Info (at) bpn-ir.com

www.bpn-ir.com

