

## Assessing the Impact of Oil Industry Activities Based on Sustainable Development in Urban Areas (Case Study: Bushehr)

Dr. Ali Reza Sayyaf Zadeh<sup>1</sup>, Mehdi Asadi Doborjy<sup>2\*</sup> and Maryam Mostafavi<sup>3</sup>

<sup>1</sup>Professor Payam Noor University of Tehran, Tehran, Iran

<sup>2</sup>M.Sc. of Geography and Urban Planning, Payam Noor University of Tehran, Iran

<sup>3</sup>M.Sc. of Geography and Urban Planning, Payam Noor University, Tehran, Iran

\*Corresponding Author E-mail: [Asadii14@yahoo.com](mailto:Asadii14@yahoo.com)

Received: 11 December 2015, Revised: 20 January 2016, Accepted: 29 February 2016

### ABSTRACT

In modern times, one of the aspects of urban development, urban development control process is based on industrial activities. Industrialization in urban areas, especially in the field of petrochemical and petroleum significant role in the development process urban areas by increasing productivity, creating employment opportunities, provision of basic needs and link with There are other economic sectors. Petroleum related industries developed in terms of its strategic location in Bushehr In the south of the country, causing effects in different social, cultural and physical development -Space is effective, In view of the importance of this paper is to examine the impact of Sustainable development of the city of Bushehr oil industry activities are addressed. The research method - Descriptive and analytical information collected through the survey. The population of citizens Residents of the city of Bushehr 384 volumes was determined based on the sampling Couture. Factors influence the development of research-based activities in the oil industry, economic Socio - cultural validity questionnaire validity of the questionnaire was prepared according to the formula (90 0) is calculated which indicates the validity of the study. And data / alpha have also been used. SPSS and EXCEL software. The results showed that the existing facilities in Bushehr to present the findings and actions taken Not Bushehr oil industry in sustainable urban development and urban development beginning in Bushehr have been the development process can be considered positive.

**Keywords:** Petroleum Industries, Sustainable Development, Urban Space, The City Of Bushehr.

## Introduction

### Statement of the problem

In the context of human activities, and as a place where people are able to make available environmental Will be planned and designed in such a way that a human needs in relation to the influence because no city without relying on internal resources with the ability to provide Satf adh (Rahim, 1999), Its scope cannot be sustained, the stability depends on the stability of his region, hence the Environmental planning and thinking required to develop a form of urban development can be used. Dignity of every city has its own identity and characteristics of climate, geography, topography and landscape Natural enough, Cities distinguish from each other. Variables strongly influenced the growth of cities May, therefore, be based on a plan for each of the geographic conditions of economic and social Fits expand. New urban growth in developing countries today, with the differences Concepts and processes of developing and expanding urban spaces previously expressed hereinafter Urban systems are not suitable for describing forms , new forms of urban spatial development of the. New forms of spatial resolution in metropolitan areas: a qualitative changes are Latin America, where decentralization policies, improved infrastructure, communication networks and prediction Maternal demographic and economic impacts of increased urban area of the city is seen Research over the past decade, the emergence of new forms of communication, especially in urban areas. (Aguilar, is (1999:391Technologies and new industries are postulates. These new forms are mainly the result is something that as a (urbanization, industry-driven)

can be described as the opposite trend (urban area centered) located in the area so Tsar larger (as a result of technological advances) is extended3). Growth strategies that feature practical strategies for development of industrialization, Aguilar, 2003). Developing countries in the past four decades has been discussed with the agreement of the different analyzes Few among them can be observed. With industrialization and urban areas, a significant role in the development process Urban areas by increasing productivity, creating employment opportunities, provision of basic needs and link with Michel et al, 1979). other economic sectors in order to reduce regional disparities , there is Preliminary stages of industrialization can be used as a tool for improving working conditions and Standards of living in poverty on a global scale , not just as a tool to generate more The origins of insight and detail oriented. (Das.Pk, using new technologies to be introduced (in 1979The origins of insight and detail oriented. Industrialization of developing countries in the years after the war from the perspective of development patterns, indicates that The rate of capital accumulation, the relative roles of the public and private sectors, the nature and degree of external dependence and Domain tendency to export or import substitution had a significant impact on the development of industrial cities have, therefore, seems to be the approach to assessing the impact of industrialization as a common axis Urban development in developing countries, high variety of performance it should be considered as non-Given the importance of a significant destructive processes in the interaction between industrialization and eye Ktqabl. extent of urban space and economic factors, and social development will

(Taherkhani, 1379) The study entitled "Impact evaluation of activity-based oil industry in the areas of sustainable development city of Bushehr" policy, the principles of the method include, for example, Relationship between urban development and the necessity of Bushehr oil industry activities i.e. planning for sustainable development Related to the ability of Bushehr, is desired. Development of related industries Because of its strategic location in the oil port of Bushehr in southern Iran cause effects on aspects in this area. Bushehr despite its massive oil and gas reserves have long used has been great. Responsible for establishing strong evidence indicates that the exploitation of Bushehr on the Persian Gulf oil that goes back several decades and in different places so as to establish the Refinery facilities specifically intended for the development of oil fields F 1 and F 2 Field and Arash Ferdowsi Square development activities influences employment in this industry have Arrangements are considered the city's industrial development. An opportunity for the presence of oil in Bushehr Increase in income and other challenges will be. Development activities in the oil fields. Direct and indirect employment for many people in the host city of Bushehr, provided that such action Increased income and higher purchasing power of the people in this city will be one of the main requirements of is a constant. These activities can help develop the industry in a negative impact one such polarization that would benefit the economy and it is considered as negative. The development the industry Bushehr underlying social and cultural impacts are positive or negative. In this study, the Case of Bushehr, subsequent to a comprehensive assessment of economic, social, familiar with the concept of industrialization and

development of petroleum activities and influence of urban space Bushehr development of the industry, the impact of oil activities should be evaluated. In this study, a geographic area and Case Study in the host city of Bushehr Bushehr, social consequences and Economic development activities in the oil industry at the Bushehr plant will be tested and a share-based activities Of total employment and economic activity in the oil industry over the past years to be determined and the Clarifying the position of the oil industry , the major strengths and weaknesses of the oil industry in order to create jobs Achieving the goals of sustainable development are discussed.

### Research questions

The subjects of this research question are:

- 1) sustainable development has led to the development of the Bushehr?
- 2) Does the city of Bushehr sustainable development (economic indicators, social and other) and development there was a significant correlation between the activities of the oil industry?

### Hypothesis

According to the above questions, hypotheses are formulated as follows :  
 A) It seems that the city of Bushehr, according to the requirements of sustainable development, sustainable development in the city is Nyanjamydh.  
 B) It seems that the development of the oil industry and sustainable urban development activities in Bushehr (indices Economic, social, etc.) and components increased employment, income and other there is a significant relationship.

### Materials and Methods

Survey included interviews with local residents of the home and the intellectual

foundations of Research and literature research using books, journals - Research and Scientific Databases.

Internet prestigious documentary style - the library has been used to analyze the data.

Is used. The population studied in the field of EXEL and SPSS statistical software of families are living in Bushehr. It should be noted that the statistics in Bushehr 1390 is of 247,706 people of whom 384 were selected as samples. To estimate sample size, sampling methods using statistical techniques used in is used. : Here's a sampling Couture (Hafez M., 13167) the three approaches can be developed according to the strategy of industrialization in the country revealed that the development from the Development Strategies (Grfyn, Kate, 1375. (165The first approach is focused on import substitution of consumer goods. Certain aspects of this approach over Private sector industrial investment, protectionism, tariffs and credit supply Could be relatively inexpensive. The second approach is based on the promotion capital goods (heavy industry), this approach produces Prior to the application due to lack of industrial production is therefore rated the domestic market ready to absorb The active participation of the private sector, the government has a leading role perfectly. Driving force and growth of this approach is provided by governmental agencies.

Third approach to industrialization, export-oriented industrial development strategy. This approach This concept is based on the increasing demand for offshore boundary adds to the boom in other words Exports can act as Tars coefficient. Relationship between industrialization and urban development in the context of developing

countries have different views Is so Rajysh Chandra expressed views on the role of technology in development has emphasized Chandra, believes the industry will follow the following functions in urban areas (1992. ( 15Economic efficiency : Due to minimize competition from many activities and points ♣ Classes Significant reduction of urban service activities of trade in services significantly Limited attention towards industrialization is an economic reality. Most of the population in developing countries is increasing rapidly, but creating opportunities ♣ Keep pace with population growth is not new. Thus unemployment as a social problem it is a tangible phenomenon in developing countries. Industrialization by creating new job opportunities Tvandnsbt acceptable growth rate of labor absorption and reduce unemployment.

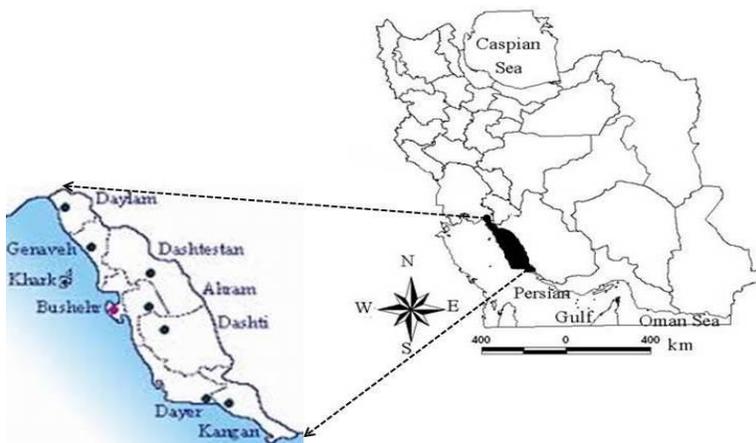
## Results

As explained in the methodology of this research was to collect and to obtain first-hand information processing resources of the used questionnaire surveys Bushehr was provided by the host population. The objectives of this study1 2And consideration of the information obtained in the research process both descriptive statistics and inferential information (Of hypotheses) are presented in the following will be paid to each of them. A: The results of descriptive research: descriptive questions related to the scale of the host, including Information in this section shall be made public. Results Descriptive characteristics of the study Individual respondents, including gender, age, occupation, education, and ... Which are as follows: A-1- Gender: The gender of the respondents to the questionnaire prepared for the table, the total sample.

## Gender

Selected for the local people of Bushehr  
384, 327 patients (81.8%) males and 57

(18.2%) female.



**Figure 1.** Map of country and location in the city of Bushehr province

#### Age of Respondents

The respondents to the questionnaire of the local population less than 20 26 years (43.7%) are aged and - since there is no maximum number of people between 30The minimum numbers of respondents to the questionnaire among local people who are older than 51Years (2.7%) respectively.

#### Educational status of respondents in any of the local people who have responded to the questionnaire

What were illiterate and 1.3 % of respondents who have had a primary education, and those 8.6 % of respondents who are educated on form. , As shown Most of the respondents had a bachelor's degree, which is 42.7 percent of the respondents Forming 22.5 % of the respondents have a high school diploma. Respondents with high school degree19.5 % of respondents are also respondents with a master's degree and Ph.D. from about 5.3Percent of Guyana's response is included.

#### Survey questions related hypotheses

Questionnaire to evaluate hypotheses related to questions about the status of local development initiatives Sustainable Bushehr asked. The first hypothesis regarding the type of questions and assess the importance of each component Descriptive characteristics of the study hypotheses using descriptive - analytic study. The results of the component. The first hypothesis examined the components of sustainability indicators in Bushehr for housing, health, Hospital bed in Hove, nutritional indices and catering services in the city, the way of communication, Capita education, sport and ... Of low, medium, weak and very weak with Are. N. Also within the second hypothesis derived from the statistics of Methods (rank correlation coefficient Spearman) was used.

#### Economic aspects

One of the main factors in the evaluation of the results, most of which emphasized sustainable urban development impacts it

is economical. , In fact, urban development and urban planning as a major factor and effective in recent years, much attention has been placed. Components developed in this research to test and evaluate Bushehr oil industry on the economic components of the three variables (employment status,

income and land prices Urban) have been used. Should note that a significant test for rank variables (ordinal) Based on answers to five common questions of one of the codes have been introduced from 1 to 5 Spearman correlation test is used.

**Table 3.** Analysis of inferential statistics related to the host's question about the impact of oil activities on Economic indicators for sustainable development in Bushehr

Significant Test	Value	Components	Spearman correlation test methods
Rejection H0	0.000	0.336	Youth employment in the oil fields
Rejection H0	0.000	0.250	Increased employment in the petrochemical industry
Rejection H0	0.000	0.260	Absorb surplus labor in other sectors Oil Industry
ReceptionH0	0.059	0.408	Increased job opportunities in the exploration and Astraj Oil and Gas
ReceptionH0	0.068	0.064	Revenues increased by reducing the distance class Oil
Rejection H0	0.032	0.197	Increase the purchasing power of the Career Development land price of oil in

**Social-cultural**

Industry development in an urban area in addition to economic impacts, cultural impacts - particularly on social Leave the area. Depending on the nature of these effects (with or without planning and planning and management) provides a separate influence on the target area. This means that if the industry is planning its positive effects than negative effects, and

vice versa. In this section, the researcher the test of social factors - cultural development of the oil industry, which deals in Bushehr. It Note that two variables to test for significant rank (order ) in terms of the five answer common questions Codes 1 through 5 have been introduced with the Spearman correlation test was used.

**Table 4.** Analysis of inferential statistics related to the host's question about the impact of oil activities on Social indicators - Cultural Sustainable Development in Bushehr

Significant Test	Value	Components	Spearman correlation test methods
ReceptionH0	0.063	0.130	Disposition of consumer goods and means of Open jobs related to the oil sector
ReceptionH0	0.107	0.072	Change of attitude and lifestyle of the above To the welfare and income from oil
Rejection H0	0.014	0.126	Prevent the migration of labor to cities Surplus
Rejection H0	0.002	0.167	Increased incentives for young people living in His life
Rejection H0	0.004	0.152	/ enhance the sense of place of residence retention incentive to increase
Rejection H0	0.000	0.206	increase public awareness and knowledge
Rejection H0	0.017	0.122	/ Improve education , health and housing
Rejection H0	0.000	0.168	Increase public participation in development projects

According to Table 4, it is inferred that the social component - culture in Bushehr Increased activity in the oil sector led to a change in parameters for preventing migration of labor to cities Surplus , increasing incentives for young people living in their lives , increase their sense of belonging to the residence, Increase public awareness and knowledge , improving education, health and housing, and to increase public participation in Urban development projects and also due to the high alpha obtained for the components of Disposition of consumer goods and equipment and the changes in attitude and lifestyle of the people to rise Welfare and income levels have not been confirmed .

**The overall hypothesis of this study, the following are First hypothesis**

The city of Bushehr appear according to the requirements of sustainable development. To investigate this hypothesis, 15 cases of essential components of sustainable development indicators used Was. Spearman correlation test was used to evaluate this hypothesis. Significant test components the first hypothesis examined in view of the Bushehr indicate that 70 percent of the components of sustainability in urban areas of the city are not in good condition. Also, 30% of these components impact have experienced. Thus, the intermediate state of the results of the first hypothesis is confirmed. Hypothesis seems to sustainable urban development in the city of Bushehr (indicators of economic, social and Etc.) and the development of oil industry activities is correlated. In the objective from the same two hypotheses concerning a question of the design of the survey at the interface of the oil and as the Components of sustainable development and its influence on the 17

component indicators of economic and social -The culture was studied in a total of 71 % of the index's positive influence on urban development Patients and 29% of Bushehr oil industry activities are unaffected. It can be stated That oil and gas development activities in Bushehr underlying economic and social change has been Thus, the hypothesis is confirmed.

Conclusion and solution.

**Conclusion**

One of the most important issues of urban development and the development of urban design and planning. Comment on this the importance of this study examines the impact of oil activities on sustainable development of the city Bushehr has been paid. The world we live in today, unfortunately the world is urban Away from its natural environment and adoption of unwanted Tadhayy the uneven relations of humans and the environment Considering the factors discussed in the previous section, we can say: the city comes from (Farid, 1371 Stability of the Bushehr components for more than 70 percent of the first hypothesis was confirmed, This means that the current status quo of Bushehr, facilities and activities Bushehr has not led to sustainable urban development. The second hypothesis examined the relation between sustainable Development City of Bushehr activities related to oil and gas industry was considered. In this regard, our results the investigation revealed that the 17 indicators for economic, cultural and social - 71Percent and 29 percent, have been approved by the characteristics of the components and operations of the petroleum industry Affected. In general, one can see that at the beginning of the development of the city of Bushehr oil

industry these processes have been developed and can be considered positive.

Guidelines and suggestions:

- Formation of oil industry activities in the industrial towns and concentrate all efforts on within these areas.
- Underlying spatial distribution of oil and its spatial distribution in Bushehr in the direction of justice. Social and economic status.
- Determining the appropriate locations for such activities and the development of indigenous manpower for putting Work and commissioning activities in this sector of industry.
- Grant adequate and timely financial resources for development projects and eliminate jobs in this sector Administrative and legal difficulties.

#### Resources

Ismaili, A. (2009). The need for environmental strategies in oil and gas, petrochemical, Second International Conference on Health, Safety and Environment, Tehran.

Limbs, H. (2011). The negative effect on the oil industry, economic, social and cultural. 2 Jam city, bright Agency.

Righteous, A. (1997). Provide a useful model for the study of the models and the location of urban centers. 3

Urban geography and urban planning doctoral dissertation, Department of Geography, University of Tarbiat Modarres University. GIS.

Pourahmad, A., Ziarat, D., Muhammad, A. (2007). The Spirit of Allah, spatial patterns of land use. 4

Oil urban cities (in two domes), Journal of Geographical Research Article, Issue 96

Hafez, M. (2009). Introduction to research methods in the humanities, the publication, Tehran. . 5

Soil, G. (1998). a research approach to the dissertation, State Scientific Research Center.

8- - published in cooperation with the Cultural Center of tact, Tehran: 115.

Rahimi, H. (1999), sustainable urban development with emphasis on environmental potential (per Kashmar), and Thesis. 7. Ph.D., University of Tarbiat Modarres University, Tehran.

Zahedi, S., Al-Sadat and Najafi, G. (2005), The Concept of Sustainable Development, Journal of instructor. 8 Humanities, 10(4): 12-34.

Plan and Budget Organization of Bushehr province. (2004). Statistical Yearbook of Bushehr, Bushehr Astadndary9.

Shkvyy, H. (1994). New perspectives in urban geography (Volume I), Tehran, publishing side, 10.

Shams, M., Palizban, S. (2010). Effects of economic policies based on oil revenues. 1 13-In the housing market, new approaches in Human Geography Quarterly, Third Year, Vol. Winter

Shi, E. (2010). Music Technology, Song of the City, forum on urban industrial development 1(1): 1 2-19

Taherkhani, M. (2010). The role of industrial development in rural areas, case study provinces

این رفرنس ناقصه: Commented [P1]:

Central thesis of Geography and Urban Planning, Tarbiat Modarres University, Tehran.

Fazeli, M. (2009). Effects of social infrastructure in the Caspian oil set, 14p. Conference social issues Mazandaran, Sari, Iran.

Farid, Y. (1992). Geography and Shhrshnasy, second edition, University Press, 15p.

Feizi, M. (2008). The need for environmental impact assessment and its role in the development of the cement industry, 16.

Griffin, K. (1996). Economic Development Strategies, Translations Raghfr Hussain, Mohammad Hossein Hashemi. 17p. Tehran, printing, publication, broadcast straw.

Gilbert, O., Galgr, J. (1996), Cities: Poverty and Development, Urbanization in the Third World, 18p.

Karimi Nasser, M. (2003). The international public relations office of Tehran.

Madani, A.B. (1988) Comparison of strategies for economic development in the sphere of development, 19p. Southern Tehran.

Langroodi obedient, H. (2007) Economic Geography of Iran (industries), published by the University Jihad, 20p. Mashhad, Iran.

Far Mansouri, K. (2003), Statistical Methods, Tehran University Press, Tehran, 21p.

Mahdavi, D. (2003), the role of tourism in rural areas and towns surrounding the model.

Strategic Lavasan small sample villages, (2001). MA thesis, Geography and Planning

Rural Planning, Tarbiat Modarres University, Tehran.

Aguilar, AG. (1999), Mexico City growth and regional dispersal: the expansion of largest cities and new spatial forms, habitat international, 3(23): 391-412.

Aguilar, AG. (2003). Ward, pM and smith, Globalization, regional development, and mega-city expansion in Latin America analyzing, Mexico city, speri hinterland, cities, 20:3-21.

Das, PK. (1979), basic issues, macro policies, components of programmer of development, industry development, 4: 8-29.

Hshort, J. (2001). An Introduction to urban Geography, Routledge and Paul, London, 1084, p.102.

Michel, C.M. (1974). urban space planning for Australia, Annals of Tourism Research, and 12(1): 31-39.

Wesis, J. (1988), industry in development country: theory, olicies, evidence, routledge published, 26-80

**How to cite this article:** Dr. Ali Reza Sayyaf Zadeh, Mehdi Asadi Doborjy, Maryam Mostafavi, Assessing the impact of oil industry activities based on sustainable development in urban areas (Case Study: Bushehr). *International Journal of Advanced Studies in Humanities and Social Science*, 2016, 5(1), 53-61. [http://www.ijashssjournal.com/article\\_83778.html](http://www.ijashssjournal.com/article_83778.html)