

*I.R.Iran National Report
on
Sustainable Development*

Presentation By
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*Chapter 1: Energy
Current Status*

- *Energy section due to vast distribution plays effective role on international economic interactions job opportunities and production also confronts with rapid consumption growth.*
- *This section has paved way for mainstream approaches and considerations as well as faced many challenges at the following sectors like as oil and gas, electricity and new energies :*

Oil and gas

- *the oil and gas sector in Iran contains an estimated 98.6% of basic energy is heavily reliant on crude oil, oil productions and natural gas. During the years of the Iranian Third Development Plan, Iran has been producing about 1.3% of annual growth rate for crude oil which finalized to great deal of progress in national planning and policies area. In these years, it has been a more enormous investment in this sector. In upstream experience of oil and gas sector, it can be pointed out new oilfield developments.*

*Oil and gas
Cont'*

- *Azadegan was discovered in 1999, representing Iran's largest oil discovery in 35 years, and also South Pars as a largest natural gas field. The main Iranian natural gas reserves are located in non-associated fields, meaning that Iran has great potential for future gas development.*

- *The petroleum sector in Iran has a pivotal role in the country's economic growth and development in downstream section. During the past years, this sector has taken a responsible approach to integrate environmental protection and to comply to governmental policies and plans such as phase-out of leaded gasoline, distribution of low-sulfur diesel and expansion and installation of the CNG system on the public transport instead of fossil fuels.*

Electricity and New Energies

- *During the past decade based on the Third Five-Year Development Plan, Iran has made remarkable achievements in the electricity. As regard as the electricity sector, the following instances are worth mentioning, reformation of the administrative structure and foundation of specialized mother companies, eliminating the electricity shortage and attaining a production surplus.*

- *The strategy of optimizing energy consumption has been effectively pursued through the adoption of sustainable practice and policy in the energy sectors especially non-reliance to oil and gas. Currently, the access share of countries population to electricity is being the energy index for development. In this regard, Iran is hoping to increase new Clean energies (solar energy, geothermal, small hydroelectric power plants and wind power) in coming years.*

*Implemented Actions for
Optimizing Energy Consumption*

- *The following have been accomplished so far: reformation of the governmental administrative structure, recognition and commitment with local industries both governmental and private sections in order to produce the facilities of new energies and so entrusting the private sector of electricity production.*

*Implemented Actions for
Optimizing Energy Consumption*

- *Paying subsidies due to cost-effective of facilities.*
- *Setting industrial process standards: energy consumption standards in industrial processes which resulted to economize energy more than 1.5 million barrels of crude oil .*
- *Synchronizing the production of electricity and heating energy in the country.*

- *National laboratory of optimizing energy for electrical household appliances.*
- *Preparation of decree for energy efficiency management: energy consumption standard in systems, energy using equipments and processes, energy efficiency directives, rules and standards, training and awareness, power management in electricity and natural gas-fired networks and prediction of fund support tools*

- *Setting energy efficiency standards for residential and commercial appliances and setting energy efficiency standard in the most of industries.*
- *Establishment of training national center for energy management with cooperation of JICA in Tabriz*
- *Training of over 1200 energy experts and managers .*
- *Arrangements for energy consumption labeling of household appliances*

Aim
Main Approaches based on the Third Iranian Development Plan

- *Preparation of sustainable development strategy for fossil fuel .*
- *Increasing use of natural gas at whole economic sectors*
- *Promoting electricity exchanges between Iran and neighbor countries, with connection of the power grids of Iran to transition network of Turkey, Azerbaijan, Turkmenistan, Afghanistan and Pakistan .*

- *Developing main transition line network of natural gas due to local consumption and gas exports*
- *Implementation of productions quality improving plans in refineries*
- *Special attention to gas injection projects in oil fields*
- *Reducing oil productions share and increasing natural gas and electricity shares in energy barriers section*

Action Plans and Policies

- *To attract investments of private sector and foreign companies for power plants.*
- *We have some progress on the followings:*

- *Organization of specialized companies and governmental companies in oil sector*
- *Creating employment opportunities for educated man power in private and non-governmental sectors*
- *Determining of stable pricing mechanisms due to economic considerations*

- *Removing inefficient structure and parallel sections in energy management sector*
- *Encouragement of local institutes and non-governmental section in power generation sector (with state-controlled private companies) for the power plants which out of Energy Ministry's management and supervision*

- *Proper use of renewable energies like as solar water heater, pumps and wind power plant*
- *Assist to organize and strengthen of consulting engineer companies, contractual companies and civil companies of private and cooperative sectors in large projects*

Conclusions of Operational Evaluation of the Iranian Third Development Plan

- *The principal recommendations in order to remove the execution hurdles and improve the activities at the Fourth Development Plan could be:*
- *Attempting to develop electricity power, power exchanges facilities and transmission by the state-controlled companies*
- *Adjustment of financial relations structure in government and NIOC in clearance and productivity promotion*

Conclusions of Operational Evaluation of the Third Development Plan Cont'..

- *Priorities of gas pipelines in boundary provinces and replacement of consumption of oil , with natural and liquid gas in these provinces*
- *Promoting the Exports of gas and electricity due to differences of Price between productions and exports .*

Conclusions of Operational Evaluation of the Third Development Plan cont'

- *Activities of reducing transmission and distribution losses regarding to significant state investment for new power plants*
- *Approval of necessary regulations and creating an atmosphere of confidence for Private Sectors to invest on renewable energies .*

Optimization Policies for Energy Consumption

- *Preparation of management programs for energy consumption in long-term, mid-term and short-term .*
- *Preparation and executing of public awareness policies on improving energy consumption pattern*

Optimization Policies for Energy Consumption

- *Designing specialized training courses of energy management.*
- *Planning and supervision on innovative models due to improving energy consumption, implementation of development study and research plans as well as new technologies*
- *Protection of governmental and private research units establishment and financial and technical assists at the implementation of "optimizing fuel consumption" plans*

Optimization Policies for Energy Consumption

- *Approval of necessary regulations, standards and guidelines of energy application and sufficient follow-ups regarding to economic and environmental impacts*

Thank you
For Your Kind Attention
