

Energy Profile of Pakistan

I. Energy Supplies

1. OIL

i.	Net Recoverable Reserves (as on 30.6.2009)	: 314 Million Barrels
ii.	Production (FY 2008-09)	: 24,033 Thousand Barrels
iii.	Import of Crude Oil (FY 2008-09)	: 8,060,65 Tonnes
iv.	Import of POL Products (FY 2008-09)	: 9,974,184 Tonnes

2. GAS

i.	Net Recoverable Reserves (as on 30.6.2009)	: 28.903 TCF
ii.	Production (FY 2008-09)	: 1,460,679 MCF

3. COAL

i.	Total Resource Potential (as on 30.6.2009)	: 186,007 Million Tonnes
ii.	Total Reserves	: 3,450 Million Tonnes
iii.	Production (FY 2008-09)	: 3,738,122 Tonnes
iv.	Import (FY 2008-09)	: 4,651,751 Tonnes

4. Hydro Power

i.	Installed Capacity (as on 30.6.2009)	: 6,481 MW
ii.	Generation (FY 2008-09)	: 27,784 GWh

5. Thermal Power

i.	Installed Capacity (as on 30.6.2009)	: 12,842 MW
ii.	Generation (FY 2008-09)	: 62,214 GWh

(WAPDA - 19,521 GWh; KESC - 8,262 GWh & IPPs - 34,431 GWh)

6. Nuclear Energy

- i. Installed Capacity (as on 30.6.2009) : 462 MW
- ii. Generation (FY 2008-09) : 1,618 GWh

7. Electricity Imported

- i. Electricity Imported (FY 2008-09) : 227 GWh

II. Sector Wise Consumption (FY 2008-09)

1. Oil

- i. Households : 97,332 Tonnes
- ii. Industry : 969,193 Tonnes
- iii. Agriculture : 69,793 Tonnes
- iv. Transport : 8,837,197 Tonnes
- v. Power : 7,570,418 Tonnes
- vi. Other Govt. : 367,266 Tonnes
- Total : 17,911,199 Tonnes**

2. GAS

- i. Households : 214,113 MMCF
- ii. Commercial : 35,536 MMCF
- iii. Cement : 7,305 MMCF
- iv. Fertilizer : 201,100 MMCF
- v. Power : 404,140 MMCF
- vi. Industry : 319,003 MMCF
- v. Transport (CNG) : 88,236 MMCF
- Total : 1,269,433 MMCF**

3. COAL

i.	Households	: 813 Tonnes
ii.	Power	: 112,520 Tonnes
iii.	Brick Kilns	: 3,274,789 Tonnes
iv.	Cement and other industries	: 3,801,751Tonnes
v.	Pak Steel	: 1,200,000 Tonnes
	Total	: 8,389,873 Tonnes

4. Electricity

i.	Households	: 32,282 GWh
ii.	Commercial	: 5,252 GWh
iii.	Industrial	: 19,330 GWh
iv.	Agricultural	: 8,795 GWh
v.	Street Light	: 430 GWh
vi.	Traction	: 5 GWh
v.	Other Govt.	: 4,277GWh
	Total	: 70,371 GWh

Stakeholders in the Oil, Gas, Mineral, Power Sectors and Renewables

Function	Oil & Gas		Mineral		Electricity		Renewables	
	Public Sector	Private Sector	Public Sector	Private Sector	Public Sector	Private Sector	Public Sector	Private Sector
Policy Formulation	Ministry of Petroleum & Natural Resources (MPNR)		MPNR, Provincial Governments		Ministry of Water & Power, PAEC		M/o Science & Technology, AEDB	
Regulation	<i>Upstream:</i> MPNR <i>Midstream & Downstream:</i> OGRA		Provincial Governments		NEPRA			
Production	OGDCL, PPL	national & international companies	PMDC, Provincial Governments	Private Companies	WAPDA, KESC, PAEC	IPPs	PCRET, SHYDO	Private Companies
Refining / Transmission	PARCO, NRL, Dhodak, Biosicar	PRL, ARL			NTDC, KESC			
Distribution	PSOCL, SNGPL, SSG CL	Shell, Caltex, Total Parco, APL	Provincial Governments	Private Companies	Distribution Companies of WAPDA and KESC			
R&D and Facilitation	HDIP, OGTI		GSP, PMDC		PPIB		PCRET, PCSIR, Universities	

List of abbreviations given below

LIST OF ABBREVIATIONS

AEDB	Alternate Energy Development Board
APL	Attock Petroleum Company Limited
ARL	Attock Refinery Limited
BCFD	Billion Cubic Feet per Day
BPD	Barrels per day
Caltex	Caltex Oil (Pakistan) Limited
CNG	Compressed Natural Gas
GOP	Government of Pakistan
GSP	Geological Survey of Pakistan
GWh	Giga Watt hour
HDIP	Hydrocarbon Development Institute of Pakistan
HOBC	High Octane Blending Component
HSD	High Speed Diesel Oil
HSFO	High Sulphur Fuel Oil
IPPs I	Independent Power Producers
KESC	Karachi Electric Supply Company
LDO	Light Diesel Oil
LPG	Liquefied Petroleum Gas
LSFO	Low Sulphur Fuel Oil
MMCFD	Million cubic feet per day
mt/y	Million tonnes per year
MW	Mega Watt
NEPRA	National Electric Power Regulatory Authority
NRL	National Refinery Limited
NTDC	National Transmission and Dispatch Company
OGDCL	Oil & Gas Development Company Limited
OGRA	Oil & Gas Regulatory Authority
OGTI	Oil & Gas Training Institute
PAEC	Pakistan Atomic Energy Commission
PARCO	Pak-Arab Refinery Company Limited
PCRET	Pakistan Council of Renewable Energy Technologies
PCSIR	Pakistan Council of Scientific & Industrial Research
PMDC	Pakistan Mineral Development Corporation
PPIB	Private Power Infrastructure Board
PPL	Pakistan Petroleum Limited
PRL	Pakistan Refinery Limited
PSOCL	Pakistan State Oil Company Limited
Shell	Shell Pakistan Limited
SHYDO	Sarhad Hydrel Development Organization
SNGPL	Sui Northern Gas Pipelines Limited
SSGCL	Sui Southern Gas Company Limited
TCF	Trillion cubic feet
TOE	Tonnes of oil equivalent
TOTAL	TotalFinaElf
WAPDA	Pakistan Water and Power Development Authority

Source : Hydrocarbon Development Institute of Pakistan