ENERGY

Energy Department was established by Government of Punjab in 2011 to oversee and administer the development, growth and regulation of Energy Sector in Punjab. Whereas Department has a consistent focus on effective regulation in energy conservation and regulation it has set up associate wings to facilitate power generation in the province. Punjab Power Development Board (PPDB) facilitates power generation in the province by engaging private sector. In addition to that two public sector companies i.e. Punjab Power Development Company Limited (PPDCL) and Punjab Quaid-e-Azam Solar Company have been set up to expedite power generation in the province.

SECTOR OVERVIEW

Total installed electricity generation capacity of Pakistan is 22,668 MW with demand growing at 8 percent annually. Punjab consumes 68% of the total electricity generated in the country and is coping with severe energy shortfall that has adversely hit its annual GDP growth for the past many years.

IMPORTANCE OF ENERGY IN ECONOMIC GROWTH

Private sector firms in Punjab have identified electricity shortage as the biggest constraint in doing business. Experts have suggested that removing the electricity shortage in Punjab can increase Gross Regional Product (real GRP) by as much as 2%, and increase Punjab's exports by USD 1.0 billion. Investment in energy sector has the potential to crowd in substantial investment by private enterprises in the manufacturing and services sectors. Therefore, removing the electricity shortage is a top priority of the Government.

VISION

Provision of affordable energy to all segments of provincial economy through conservation of energy and increase in power generation by engaging private sector

OBJECTIVES

- Availability of affordable energy to all citizens
- Energy Conservation
- Facilitating private sector in power generation, sale, purchase & distribution.
- Sustainable Energy Mix by introducing appropriate technologies.
- Using indigenous sources (e.g. solar, coal, biomass and biogas) in power generation.

SECTORAL INITIATIVES

- Construction of Four Hydropower Stations to produce 20 MW of electricity under "REDSIP" program costing Rs. 13,293 million inclusive of current year allocation of Rs 3806 million.
- Solar Power Generation by Quaid-e-Azam Solar Power Company with an allocation of Rs. 17,000.00 million.
- Bio-mass based power plants to be installed with an allocation of Rs 2000
 M near major wheat/rice producing areas.
- Bagasse-cum-coal/others fuel based power plants to be set up with an allocation of Rs 500 M
- 2.5 MW of solar PV power plant is being established at Islamia University Bahawalpur with Rs. 465.845 M to provide un-interrupted power supply & research base for the university students.
- Feasibility study to explore indigenous resources like biomass / biogas / solar /wind / small hydropower to provide power to 36 villages (one in each district) with allocation of Rs. 50 million.
- 78,000 Solar Home Solutions units to be distributed among deserving students under "CM Ujaala Program".
- Set up of two coal power projects 2x55 MW each for Industrial Areas in Lahore & Faisalabad with participation of private sector.
- Set up of 6 x (1,320) MW Coal Power Plants through private investors for which land and logistics infrastructure have been provided by the Government of Punjab.

TREND OF ALLOCATIONS

Rs. In Million

Sr. No	Year	Allocation
1	2012-13	10,000
2	2013-14	20,431
3	2014-15	22,000

OTHER DEVELOPMENT INITIATIVES 2014-15

An amount of Rs. 9000 million is allocated for QA Solar Bahawalpur.

MTDF 2014-17 ENERGY: SUMMARY Development Programme 2014-15

					(Million Rs.)
Sub-Sector	Capital	Revenue	Total	F. Aid	Total
Ongoing Schemes					
Regular	1,229.000	115.000	1,344.000	3,050.000	4,394.000
Total	1,229.000	115.000	1,344.000	3,050.000	4,394.000
New Schemes					
Regular	8,538.000	3,068.000	11,606.000	0.000	11,606.000
Block	0.000	6,000.000	6,000.000	0.000	6,000.000
Total	8,538.000	9,068.000	17,606.000	0.000	17,606.000
Other Development Initiatives	0.000	9,000.000	9,000.000	0.000	9,000.000
Total (ongoing+new)	9,767.000	18,183.000	27,950.000	3,050.000	31,000.000
	Develo	pment Progran	n 2015-16		
Ongoing Schemes					
Regular	2,500.000	1,000.000	3,500.000	4,500.000	8,000.000
Total	2,500.000	1,000.000	3,500.000	4,500.000	8,000.000
New Schemes					
Regular	12,000.000	11,000.000	23,000.000	0.000	23,000.000
Block	2,000.000	5,000.000	7,000.000	0.000	7,000.000
Total	14,000.000	16,000.000	30,000.000	0.000	30,000.000
Other Development Initiatives	0.000	7,000.000	7,000.000	0.000	7,000.000
Total (ongoing+new)	16,500.000	24,000.000	40,500.000	4,500.000	45,000.000
	Develo	pment Prograr	n 2016-17		
Ongoing Schemes					
Regular	8,000.000	2,000.000	10,000.000	0.000	10,000.000
Total	8,000.000	2,000.000	10,000.000	0.000	10,000.000
New Schemes					
Regular	20,000.000	17,000.000	37,000.000	0.000	37,000.000
Block	4,000.000	9,000.000	13,000.000	0.000	13,000.000
Total	24,000.000	26,000.000	50,000.000	0.000	50,000.000
Other Development Initiatives	0.000	7,000.000	7,000.000	0.000	7,000.000
Total (ongoing+new)	32,000.000	35,000.000	67,000.000	0.000	67,000.000
			MTDF 2014-17	: Grand Total	143,000.000

ENERGY: SUMMARY

	No. of		Provision	Projection	Projection		
Type / Sub Sector	Schemes	Capital	Revenue	Foreign Aid	G. Total (Cap+Rev)	for 2015-16	for 2016-17
ON-GOING SCHEMES	5	1,229.288	114.712	3,050.000	4,394.000	4,127.000	50.000
NEW SCHEMES	12	8,538.000	9,068.000	0.000	17,606.000	3,855.000	0.000
Grand Total	17	9,767.288	9,182.712	3,050.000	22,000.000	7,982.000	50.000

	Scheme Information		Accum.	Prov	vision for	2014-15	MTDF P	ojections	Throw fwd
GS No	Approval Date / Location / scheme ID	Est. Cost	t Exp June,14	Сар	Rev	G. Total (Cap+Rev)	2015-16	2016-17	Beyond June, 2017
1	2	3	4	5	6	7	8	9	10
ON-	GOING SCHEMES								
RE	GULAR								
2169	Installation of solar PV Power plant at Islamia University of Bahawalpur. 23-04-2013 Bahawalpur 08-1333000-002	465.845	4.110	453.125	8.610	461.735	0.000	0.000	0.000
2170	Provision of solar panels to households below the poverty line-Chief Minsiter's Ujaala Program 19-03-2014 Punjab 08-1499000-001	3,604.544	3,423.172	0.000	35.500	35.500	0.000	0.000	0.000
2171	Solar Power System for Government offices. 13-12-2012 Punjab 08-1299000-004	47.700	6.098	0.000	40.602	40.602	0.000	0.000	0.000
2172	Renewable Energy Development Sector Investment Programe (REDSIP)	13,293.000	2,884.000	3,776.163	30.000	3,806.163	4,077.000	0.000	0.000
	7-10-13 Punjab		Local:	726.163	30.000				
	08-1399000-005		Foreign:	3,050.000	0.000				
2173	Feasibility Study Consultancy Services for development of coal based power projects at industrial estates in Punjab 16-1-2013 Lahore, Faisalabad 08-1388000-003	239.000	70.000	50.000	0.000	50.000	50.000	50.000	19.000
Sı	ıb-Total: REGULAR	17,650.089	6,387.380	4,279.288	114.712	4,394.000	4,127.000	50.000	19.000
Total: ON-GOING SCHEMES		17,650.089	6,387.380	4,279.288	114.712	4,394.000	4,127.000	50.000	19.000
	V SCHEMES								
RE	GULAR								
2174	Establishment of 2x55MW coal based power plants at M-3, Industrial Estate, Faisalabad Un-Approved Faisalabad 08-1409000-009	1,000.000	0.000	450.000	0.000	450.000	550.000	0.000	0.000
2175	Solar Solution for Secretariat Buildings Un-Approved Lahore 08-1418000-007	50.000	0.000	42.000	8.000	50.000	0.000	0.000	0.000
2176	Establishment of 2x55MW coal based power plants at Sundar Industrial Estate, Lahore Un-Approved Lahore 08-1418000-008	1,000.000	0.000	450.000	0.000	450.000	550.000	0.000	0.000
 2177	Energy Complex Lahore Un-Approved Lahore 08-1418000-010	150.000	0.000	40.000	5.000	45.000	105.000	0.000	0.000

ENERGY

									(Million Rs
GS	Scheme Information Approval Date / Location / scheme ID	Fat Cast	Accum. Exp June,14	Provision for 2014-15			MTDF Projections		Throw fwd
No		Est. Cost		Сар	Rev	G. Total (Cap+Rev)	2015-16	2016-17	Beyond June, 2017
1	2	3	4	5	6	7	8	9	10
2178	Biogas based power plant at Bhoneke buffalo research institute,Pattoki District Kasur. Un-Approved Kasur, Pattoki 08-1419191-014	55.000	0.000	20.000	5.000	25.000	30.000	0.000	0.000
2179	Quaid-e-Azam Solar Power Plant Un-Approved Bahawalpur 08-1433000-018	8,000.000	0.000	6,000.000	2,000.000	8,000.000	0.000	0.000	0.000
2180	New Initiatives in Energy Sector Un-Approved Punjab 08-1499000-006	4,000.000	0.000	0.000	4,000.000	4,000.000	0.000	0.000	0.000
2181	Reconciliation of government electricity billing by installing AMI meters (Pilot Project) Un-Approved Punjab 08-1499000-012	156.000	0.000	36.000	0.000	36.000	120.000	0.000	0.000
2182	Feasibility studies for Removal of 36 villages from National Grid (one in each district) Un-Approved Punjab 08-1499000-013	50.000	0.000	0.000	50.000	50.000	0.000	0.000	0.000
2183	Co-generation Power Plants using Bagasse-cum-coal/other fuels (Sugar cane producing districts) Un-Approved Punjab 08-1499000-015	2,000.000	0.000	0.000	500.000	500.000	1,500.000	0.000	0.000
2184	Bio-mass based Power Plants Set-up near wheat and rice producing areas Un-Approved Punjab , Punajb 08-1499000-016	3,000.000	0.000	1,500.000	500.000	2,000.000	1,000.000	0.000	0.000
2185	Energy Efficiency & Conservation Program Un-Approved Punjab 08-1499000-017	2,000.000	0.000	0.000	2,000.000	2,000.000	0.000	0.000	0.000
s	ub-Total: REGULAR	21,461.000	0.000	8,538.000	9,068.000	17,606.000	3,855.000	0.000	0.000
_	otal: NEW SCHEMES	21,461.000	0.000	8,538.000	9,068.000	17,606.000	3,855.000	0.000	0.000
	Grand Total	39,111.089	6,387.380 1	2,817.288	9,182.712	22,000.000	7,982.000	50.000	19.000