



# Power DISCOs

## *Sector Overview*



**June 2018**

# Power DISCOs | Snapshot

- 22 licensed Power DISCOs operating in Pakistan
- 10 Public DISCOs and K-Electric serve almost entire customer base
- Transmission network includes 16,260 KMs long lines, including K-Electric network, operating at 500 kV and 220 kV level
- Distribution network of NTDC includes 349,616 KMs High Tension (HT) lines and 228,573 KMs long Low Tension (LT) lines, including K-Electric

## Challenges

- T&D losses
- Circular debt

*Infrastructural reforms including significant CAPEX would help in resolving the key challenges*

## Developments

- **Multi-year tariff (MYT) Regime**  
MYT being performance based tariff will require DISCOs to achieve certain targets of performance over the control period to receive revenue streams based on known tariffs

# Power DISCOs | Snapshot

as at June 30, 2016

Type of DISCOs	Number of	
	Licenses	Customers
Public Sector DISCOs	10	24,516,718
Private Sector DISCOs	2	2,246,501
Small & Captive Power Producers	10	42
<b>Total</b>	<b>22</b>	<b>26,763,261</b>

*Private Sector DISCOs include K-Electric and Bahria Town*

	Number of Consumers					Total
	Domestic	Commercial	Industrial	Agricultural	Others	
<b>FY16</b>	22,799,179	3,258,918	346,442	323,696	15,160	26,743,395
<b>Growth</b>	4%	3%	3%	1%	2%	4%
<b>FY15</b>	21,843,609	3,162,837	335,729	320,569	14,793	25,677,537
<b>Growth</b>	4%	3%	3%	2%	2%	4%
<b>FY14</b>	20,972,698	3,073,239	325,752	312,988	14,523	24,699,200
<b>Growth</b>	3%	2%	3%	3%	1%	3%
<b>FY13</b>	20,373,680	3,003,141	317,311	303,731	14,346	24,012,209
<b>Growth</b>	4%	2%	3%	5%	3%	4%
<b>FY12</b>	19,637,543	2,939,214	306,930	288,823	13,967	23,186,477
<b>Growth</b>	4%	2%	5%	2%	-4%	3%

## Units Consumed (GWh)

**FY16: 89,295**

**FY11: 76,285**

# Power DISCOs | Transmission Network

Years	Trans. Lines* (KMs)		Total (KMs)
	NTDC	K-Electric	
<b>FY16</b>	15,011	1,249	16,260
<b>FY15</b>	15,011	1,249	16,260
<b>FY14</b>	14,287	1,248	15,535
<b>FY13</b>	13,502	1,248	14,750
<b>FY12</b>	13,026	1,248	14,274

*\* Includes 500KV and 220KV lines of NTDC and 220KV, 132KV, and 66KV of KE network*

Years	Expected Addition	
	Transmission Line [KMs]	Tranformation Capacity* [MVA]
<b>FY17</b>	1,595	14,300

*\*Includes 500KV and 200KV*

- Timely completion of projects is critical and of paramount importance.

# Power DISCOs | Distribution Network

Years	Distribution Lines* (KMs)		Total HT Lines	Total LT Lines
	NTDC	K-Electric	KMs	
<b>FY16</b>	339,458	10,158	349,616	228,573
<b>FY15</b>	341,051	9,744	350,795	242,600
<b>FY14</b>	336,941	9,245	346,186	240,909
<b>FY13</b>	332,046	8,981	341,027	221,187
<b>FY12</b>	322,352	8,712	331,064	217,485

*\*Includes 132KV, 66KV, 33KV, 11KV lines*

# DISCOs | T&D Losses | Trend

**FY16**

KPIs	Description	IESCO	FESCO	GEPCO	LESCO	MEPCO	K-Electric	QESCO	HESCO	TESCO	PESCO	SEPCO	Pakistan	
FY16	T&D Loss	Actual - Unit Lost (GWhs)	878	1,220	957	2,810	2,430	4,440	1,327	1,346	241	3,967	1,589	
		Actual Loss (%)	9.10	10.24	10.58	13.94	16.45	25.66	23.92	26.46	18.96	33.76	37.87	17.95%
		Allowed by NEPRA (%)	9.39	9.50	9.98	11.75	15.00	15.00	17.50	20.50	20.00	26.00	27.50	
		Delta (%)	(0.29)	0.74	0.60	2.19	1.45	10.66	6.42	5.96	(1.04)	7.76	10.37	

**FY15**

FY15	KPIs	Description	IESCO	FESCO	GEPCO	LESCO	MEPCO	K-Electric	QESCO	HESCO	TESCO	PESCO	SEPCO	Pakistan
	T&D Loss	Actual - Unit Lost (GWhs)	846	1,240	847	2,681	2,148	4,522	1,200	1,492	305	4,058	1,664	
		Actual Loss (%)	9.41	11.03	10.72	14.10	15.50	23.69	23.10	27.08	21.68	34.81	38.29	19.3%
		Allowed by NEPRA (%)	9.44	9.50	9.98	11.75	15.00	17.00	17.50	20.50	22.31	26.00	27.50	
		Delta (%)	(0.03)	1.53	0.74	2.35	0.50	6.69	5.60	6.58	(0.63)	8.81	10.79	

*IESCO & TESCO are the most efficient DISCOs having less than allowed T&D losses*

# DISCOs | Recovery | Trend

**FY16**

KPIs	Description	IESCO	FESCO	GEPCO	LESCO	MEPCO	K-Electric	QESCO	HESCO	TESCO	PESCO	SEPCO	Pakistan
FY16 Recovery	Actual - Units Billed (GWhs)	8,774	10,700	8,089	17,342	12,341	12,864	4,220	3,739	1,028	7,783	2,415	89,295
	Amount Billed (PKR mln)	113,522	133,336	96,437	233,501	141,677	209,687	55,339	49,009	4,692	91,672	36,104	1,164,979
	Amount Recovered (PKR mln)	103,464	133,416	95,868	231,633	141,663	183,770	39,634	35,331	20,504	81,121	19,922	1,086,327
	Loss (%)	8.86	(0.06)	0.59	0.80	0.01	12.36	28.38	27.91	(336.97)	11.51	44.82	5.5

**FY15**

KPIs	Description	IESCO	FESCO	GEPCO	LESCO	MEPCO	K-Electric	QESCO	HESCO	TESCO	PESCO	SEPCO	Pakistan
FY15 Recovery	Actual - Units Billed (GWhs)	8,147	10,006	7,055	16,328	11,711	12,293	3,994	4,020	1,101	7,599	2,682	84,936
	Amount Billed (PKR mln)	109,958	128,180	90,872	225,481	138,646	187,435	65,166	45,714	15,660	105,933	36,706	1,149,751
	Amount Recovered (PKR mln)	99,963	128,257	88,273	216,056	141,876	169,385	21,218	35,767	11,468	93,136	21,220	1,026,619
	Loss (%)	9.09	(0.06)	2.86	4.18	(2.33)	9.63	67.44	21.76	26.77	12.08	42.19	10.7

*The actual level of recovery improved to 93% for the year FY16 (FY15: 89%)*

# Circular Debt | Receivable Position - Net

Receivables (PKR bln)				
	Mar-17	Jun-16	Jun-15	Jun-14
PSO	215	180	181	175
OGDCL	121	111	121	101
PPL	60	57	59	50
Attock Petroleum & Shell	14	9	9	16
<b>Total</b>	<b>410</b>	<b>357</b>	<b>370</b>	<b>342</b>



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