**Investment program for 2018.**

**Such works are planned in 2018, as:**

 **1.Works on development of design and estimate documentation:**

* Construction of power transmission lines 110kV from substation “Uzen”-220 kV to substation 110/6kV Karamandybas with total extension of (1х34,4km);
* Modernization (reconstruction) of equipment closed switchgear-6kV at substation 110/6kV Uzen with replacement of power transformers 2х10MVA to на 2х16MVA and substation 110/6kV "Tenga" with replacement of power transformers 2х2,5 for 2х6,3 MVA;
* Replacement of power transformers at substation 35/6kV “Vostochnaya”
 and “Glinzavod” 2х10МVА for 2х16МVА;
* Modernization (reconstruction) of equipment РУ-6, 10kV at substation 110/6kV “Opornaya”, substation 110/6kV “Sai-Utes”, substation 110/35/6kV “Dunga”, substation 110/10kV “Fort”, substation -35/10kV “Kuibyshevo”;
* Modernization (reconstruction) of substation 35/10kV MSDS “Shetpe”;
* Modernization (reconstruction) of Relay Protection and Automatic Equipment at substation 220/110/10kV “Uzen”;
* Construction of repair boxes for mechanization and transport service of JSC “MPDC”;
* Installation of reclosers 35kV at ВЛ-35kV Tuschykudyk in quantity of 1 ea per m;
* Implementation of SCADA system at substations 220,110,35 kV of JSC “MPDC”.

**2. Construction and installation works:**

* Construction of HVTL-110kV from substation “Uzen”-220kV to substation 110/35/6kV Plato total extension of (1х18,7km) with replacement of transformer 1х40МVА;
* Construction of HVTL-220kV Aktau-Karazhanbas with auto transformer 1х150МVА at substations 220/110/35/10 kV “Karazhanbas”;
* Modernization (reconstruction) of switchyard 35 kV at substations 35/10 kV Tigen, Zharmysh, Kyzyl-Turan, Ushtagan, Shaiyr, Kyzan, Tuschykuduk, Karyernaya (Beineu), “Beket-Ata”, “Akkudyk”, “Akzhigit”, “Sauskan”, “Zhetybai”;
* Modernization (reconstruction) of closed switchgear and outdoor switchgear 6/10kV at substation 35\10 kV Tigen, Zharmysh, Kyzyl-Turan, Ushtagan, Shaiyr, Kyzan, Tuschykuduk, Karyernaya (Beineu), “Akzhigit”, “City”, “Industrial zone”;
* Modernization (reconstruction) of switchyard equipment 110kV at substation 220/110/10kV “Uzen”№ 10 cells;
* Replacement of Unit Transformer Substation of distribution networks.