

CLK ENERJİ YATIRIM A.Ş.

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To whom it may concern;

By requested by ABB Elektrik Sanayi A.S., we would like to share our satisfaction letter for below detailed Project in Turkey

As CLK we are Wholesale Power Company that owns four distribution companies in Turkey:

- Akdeniz with 1.7 million customers, 162 pcs Scada Stations
- Bogaziçi with 4.3 million customers, 345 pcs Scada Stations
- Çamlıbel has close to one million customers 100 pcs Scada Stations and
- Uludağ Electricity Distribution with another 2.7 million customers 285 pcs Scada Stations.

We operates in four different regions supplying power to over 10 million customers in 11 cities, about 30% of the load in Turkey.

In our systems below functionalities deployed by ABB in success:

- SCADA, Distribution Management DMS, Outage Management OMS, Operator Training Simulator OTS, and Mobile Workforce Management MWFM Service Suite SS.
- ESRI ArcGIS feeds the network model to the DMS/OMS.
- Outage Work Orders WOs are fed to Service Suite SS Android mobile (customer's platform preference) by using baseline OLM workflows. Used material information is fed to Oracle EAM.
- Maintenance WOs generated by Oracle EAM are also fed to SS mobile.

We would like to inform you that

- All four systems are live
- NM 6.5 and DMS 8.1.5.1 in operation
- Warranty will be finalized December 31, 2018
- Each one of the four systems consist of a redundant SCADA/DMS/OMS system, one OTS system and one emergency SCADA system

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