

## QUESTIONS AND RESPONSES

October 22, 2021

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### RFP – FACTS for Reactive Power Compensation – Kazakhstan Electricity Grid Operating Company (KEGOC)

**QUESTION:** Will the working grid models contain scenarios and network variations for the 2025 and 2030 grid expansion?

**ANSWER:** No. KEGOC only has a model for the current network topology.

**QUESTION:** Does KEGOC have experience with series compensation on transmission lines?

**ANSWER:** No. Longitudinal compensation is not currently implemented in KEGOC's networks.

**QUESTION:** Does KEGOC have experience with dynamic reactive power compensation?

**ANSWER:** The 500 kV substations are equipped with 7 CSRs with automatic mode change in reactive power.

**QUESTION:** Will up-to-date AC load flow transmission grid models be provided for the winter peak load and summer off-peak load scenario?

**ANSWER:** Yes.

**QUESTION:** Will up-to-date short-circuit transmission grid models be provided for the winter peak load and summer off-peak load scenario?

**ANSWER:** Currently, DigSILENT PowerFactory is not used for short-circuit calculations.

**QUESTION:** Will up-to-date RMS dynamic transmission grid models be provided for the winter peak load and summer off-peak load scenario?

**ANSWER:** We are unable to answer this question as it is not clear to us.

**QUESTION:** Please confirm that the DigSilent model of the actual power system is to be transferred to the Consultant to perform the required simulations and analysis.

**ANSWER:** Yes.

**QUESTION:** Please confirm that the set of data recorded by the SCADAC from actual operation of specific operative points are to be provided to the Consultant to perform the required simulations and analysis.

**ANSWER:** KEGOC has only manually prepared models based on SCADA data.

**QUESTION:** Please confirm that the modelling in DigSilent format of the future facilities in the horizon of study is to be either supplied by the client or proposed by the consultant based in the technical information supplied on these future facilities.

**ANSWER:** KEGOC's models include the current network topology only.