



Amynteo, 12 May 2014

To: SEMAN S.A.
6, Parodos Grypari str., Pefka
Thessaloniki 570 10

Dear Dr. Satsios,

with this letter we present our views concerning the energy saving project that your company, SEMAN S.A., carried out at FAGE S.A. plant in Amyntaio, Florina. FAGE is a leading international dairy company.

In detail, the project you implemented according to your scientific know-how was aiming at the improvement of power quality by the installation of detuned anti-resonance harmonic filters and reactive compensators as well. The above interventions included also proper electronic regulators for the adaptation of their characteristics to the variations of the electric loads. Finally, the interventions were connected in parallel to distribution subpanels, lighting panels as well as to big motors.

After project commissioning in June 2011, we noticed reduction in current - voltage harmonics, reduction of the reactive power in the inner of the electrical installation, increase of motors voltage and thus, improvement of their efficiency (due to the reduction of copper losses because of the higher voltage), improvement of power transformers' efficiency and drastic reduction of ther-

mal losses in the whole electrical installation of the plant. The above resulted in electric energy saving higher than the initially guaranteed 9,86%.

Project result evaluation was realized also via instant (so that electric loads' charging condition remain stable) measurements of the rms values of total currents of the plant's electric feeding subpanels, with and without project interventions in operation.

All materials used at project interventions, after almost 3 years of operation, show a very good working condition, with literally no problems and failures.

In conclusion, we would like to highlight that your project was executed within the deadline, according to the science of Electrical Engineering, based on your know-how and is considered by us as absolutely successful.

Kind regards

For FAGE S.A.

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