

FirePro.

Bioaerio Pellas / Big Solar

Location: **Europe** Partner: **FirePro Hellas** Application: **Electrical Panels** Industry: **Renewable Energy**



BIGSOLAR

Bioaerio Pellas is an EU Jessica sponsored biogas power plant operating in the province of Macedonia in Greece. It processes waste from pasteurized abattoirs, manure, vegetable and cheese waste from nearby food processing plants; transforming it into sustainable green energy. By-products include organic fertilizer that is distributed to local farmers, contributing to increased yields and environmental safety.

The Task

Design, supply, install, commission and maintain a reliable fire detection and rapid response fire suppression system for protecting the electrical panels that are part of operations. This system needs to be designed under European compliance parameters and be effective against multiple classes of fire as the material for fuel in this project can vary. It is also critical that the system reacts swiftly so that the possibility of fire related disruption of assets is minimised in order for operations to resume as speedily as possible.

FirePro Systems Used

FP-20SE, FP-40S

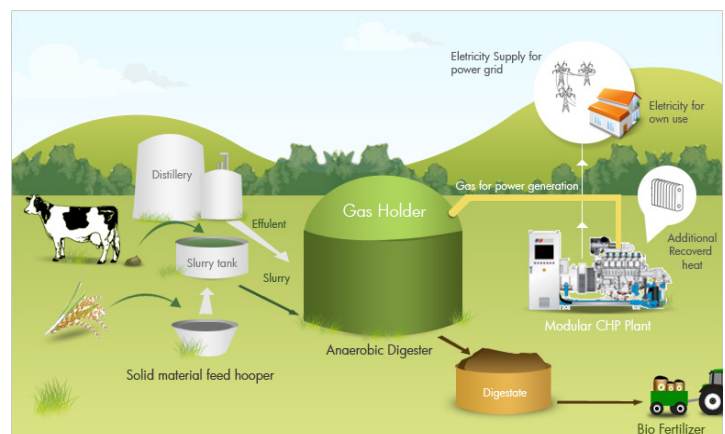
FP-200S, FP-500S

Why FirePro?

FirePro's intelligent fire protection system can be integrated with the site's existing control system architecture, enabling the identification of any fire alarm signal, in real time. During discharge, the system also effects a power and ventilation cut-off. Lastly, FirePro products, are safe to be released in the environment and do not detrimentally affect human health. The Units have a 15-year product lifetime, with minimal associated maintenance costs. Overall, modularity, efficiency and very high standards were decisive factors.

Risks Involved & Consequences

The large quantities of biogas produced and stored in these facilities are highly flammable. A fire incident could cause devastating effects to the unit's infrastructure and pose a serious threat to personnel. Fire risks can materialise from malfunctions in all types of electrical equipment. Substations and other electrical rooms that among other house electrical panels, all together contributing to the production process, are deemed critical and must therefore, be protected. Fire in these devices can cause serious collateral damage and consequently threaten disruption to operations.



Results of Implementation

Bioaerio engineers chose the FirePro fire suppression solution since it combined all the operational and technical specifications required for the project as well as a non-disruptive and low financial burden maintenance. FirePro Hellas personnel designed and carried out the installation within the specified time window. FirePro systems unobtrusively protect assets and of course people, ready to spring into action, when called upon to suppress fire within seconds helping to reduce downtime to a minimum.

