

Dear Sir, Madam,

Since the publication of our previous Newsletter a lot has changed in respect to our economic and industry environment. Economic experts worldwide report us about an historic recession with yet an undefinable outcome and duration. Most of us have indeed met with the results of such an economical crisis. It has forced many of us to concentrate on what we do best and cherish our core business.

In spite of the actual crisis, water will remain one of our most valuable future elements. Hopefully its significance will quickly drag us along this difficult situation.

Anyhow we stay optimistic about the future perspective in our line of business. In front of you lies our latest newsletter presenting to you a few recent LIT news features. We hope you enjoy reading it and we are looking forward to a continuation of our relationship.

Erwin Sterenberg

Complete program of certified drinking water systems

In our previous Newsletters we have been constantly informing you about our progress and achievements in getting our units for drinking water applications certified in accordance with worldwide accepted standards. The Austrian Ö-Norm certificate is one of these international accepted standards. This standard reflects the state-of-the-art technology and economy of our design. We have been working for several years now to get our entire range of potable water units tested and certified.

By the end of 2008 LIT received the last series of test reports from the Austrian Standards Institute. All units passed the test! We are therefore proud of being able to offer a wide range of certified units for potable water applications. The smallest certified unit is the DUV-4-75 with a maximum flow capacity of 35 m³ per hour. The largest certified



unit is the DUV-18A with a maximum flow capacity of 12.600 m³ per day.

In between these two units LIT offers fourteen certified standard UV-units. With this elaborate range LIT is able to offer the most efficient unit for any potable water application.

UV treatment in food industry

The usage of potable water for process applications in the Food & Beverage industry is immense. Due to the rising prices for potable water, scarcity and more stringent regulations; it is becoming more and more interesting to start looking for re-utilization of process water.



Through the Dutch company SOLIS, LIT has recently sold a UV-system to a potato processing plant. This company focuses on the production of high-quality, deep-frozen potato products and appetizers. Customers for these potato products can be found in

segments like Food Services, Retail and Industry.

Previously large amounts of municipal drinking water were used for washing, transporting and blanching the raw potatoes. Clean water is essential in order to secure the highest quality standards.

The LIT UV-unit is installed after the new internal waste water treatment system. The LIT UV system radiates the water with ultraviolet light to make sure all bacteria, viruses and protozoa are inactivated. Finally the reused water meets stringent potable water quality standards and it is absolutely safe to use it again in the production process. The final goal is to reuse 75% of all consumed water.





French WWTP installs LIT open channel UV-system

Recently O.E.I. France, distributor of LIT for the French market, installed a LIT open channel UV system in the South of France close to the Mediterranean Sea. The system is placed in the municipal Waste Water Treatment Plant (WWTP) of the village of Canet-en-Roussillon with 10.182 inhabitants. The capacity of the WWTP however is based on the summer season population of 66.000 inhabitants.

The LIT UV system is part of a classical urban WWTP water line. The design of the plant was based on an hourly peak flow of 21.000 m³ per day and treats on average 12.250 m³

per day. The municipal waste water is first treated by an activated sludge system including a clarifying process. Just before the discharge into the Têt River the effluent passes through the UV-system. The river then runs for 2 more kilometers before it reaches and flows into the Mediterranean Sea.

The installed LIT UV system consists out of 2 banks of 3 modules with twelve 350W lamps each. The lamps are submerged and placed parallel to the flow. The entire UV system is installed outdoor. All electrical cabinets are built in stainless steel, to withstand the Mediterranean climate conditions. Because in summer the outside temperature can reach up to 40°C, the cabinets are equipped with air conditioners. An Automatic Water Level Control System (AWLCS) including a channel slide gate assures a constant water level in the UV channel. Integrated monitoring and control of the water level is essential for the performance of horizontal open channel UV systems.

The UV-sensor controls continuously the applied UV intensity. An Ethernet connection with Scada system facilitates remote logging and control of the entire UV system.



The installation of the LIT UV system in Canet-en-Roussillon assures the water quality to comply with the stringent European Bathing water directive. This compliance is an essential part of the annual review by the Foundation for Environmental Education (FEE) and allows this popular touristic area to wave the blue flag on their beaches. The blue flag is an indication for sustainable development at beaches/marinas through strict criteria dealing with water quality, environmental education and information, environmental management, and safety and other services.



Realized projects

A selection of interesting LIT projects that recently have been realized:

- Osmoflo (Australia) Potable Water
- St. George's Pool (United Kingdom) Swimming Pool
- Aldersund (Norway) Municipal Drinking Water
- A Marinha Portuguesa (Portugal) Navy / shipping
- Rovde & Lauvik (Norway) Aqua Culture
- Chrysis Nicosia (Cyprus) Potable Water Disinfection
- Kristály (Hungary) Municipal Drinking Water
- Lagoa Meco (Portugal) Municipal Waste Water
- Solis Kruiningen (Netherlands) Food industry (potatoes), process water
- Natadola (Fiji Islands) Municipal Waste Water
- Baia (Romania) Municipal Waste Water



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