



Neopure Technologies, LLC Executive Summary

Business Summary: Neopure Technologies LLC is an early stage development, manufacturing, and service company commercializing proprietary water renewal and sterilization solutions, exclusively licensed from Neohydro Corp. Neopure delivers cost-effective, efficient, customized solutions for sterilization and water renewal, without the use of toxic chemicals, and produces no concentrated waste, and is suitable for a several vertical markets, thereby reducing water demand and overall water usage.

Problem: Water is essential to nearly all industrial activities. Water-intensive sectors, such as mining, marine, and power generation have the greatest need for water reuse and water treatment technologies. Since water is an essential element in these operations, reusing water reduces a company's water usage ratios, helps meet sustainability goals, lowers their supply risk and contributes to significant cost savings, making it a top priority for many companies today. Neopure purifies contaminated wastewater and nearly eliminates the need for a fresh supply.

Technology: Neopure has developed exclusive electro-oxidation processes based on proprietary high current anodes that use high voltage electrolysis to sterilize, process, or treat high volumes of water with minimal environmental impact and without the use of hazardous chemicals. Neopure solutions produce a powerful mix of oxidants that reduce bacteria and total suspended solids by over 99%, reduce metals by over 30%, and can serve as a stand-alone solution, or as a complement to existing processes.

Neopure's solutions include: Pathocell™ anodes that produce oxidants, such as hydroxyl radicals, ozone, hydrogen peroxide, chlorine, hypochlorous acid, sodium hypochlorite and caustic soda for the electrochemical industry; Brinecell™ anodes for use in reverse polarity conditions where auto cleaning is necessary; Electro-oxidation generators that utilize on-site wastewater or fresh water to oxidize organics and inorganics; Chlorozone generators that produce chlorine and ozone simultaneously that when added to fresh water or wastewater can destroy heavy metals, fats, and organics; Hypochlorous acid generators that provide onsite oxidant to demand; Chlorine generators to sanitize effluent or fresh water; Bleach generators to produce onsite bleach; Sodium hypochlorite generators to disinfect and purify fresh and waste water; and Neopure's Pathopure™ sterilizer that produces powerful mixed oxidants in a container for onsite sterilization. The PathoCell™ technology has been successfully deployed in the oil and gas industry, and has been field proven for over two and a half years with successful customer operations.

Market Opportunities: Neopure's electro-oxidation processes have an expansive list of potential large industrial applications including Mining, Chemical Plants, Marine, Industrial Cooling, Environmental, Power Generation, Medical (sterilization), and Agricultural.

Competition: The water and wastewater treatment are mature industries with multiple established major OEMs providing proven solutions, such as, GE, Siemens, Air Liquide, Severn Trent, and Veolia Water Solutions & Technologies. However, newer technologies continue to appeal to both operators and service providers, especially technologies that promise cheaper wastewater treatment and cleaner treated water, or the onsite production of certain chemicals used in wastewater treatment, e.g., chlorine. The primary bases of these solutions come from electro oxidation and electrochemical oxidation. Competitors offering similar solutions include OriginClear, Ecosphere Technologies, MIOX, and Water Tectonics.

Competitive Advantage: Neopure's electro-oxidation involves oxidation at the anode in an electrolytic cell. Neopure's competitive advantage is the oxidizing agents that are produced electrochemically in a non-toxic form. The agents revert to salt water without the use of any harsh chemicals, eliminating the need to transport or dispose of the oxidizing agents.

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Management:

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President & CEO

Nicholas Kambouris
Vice President
Product Development

Board of Managers:

Jeffrey Harder, Esq.
Jackson Walker LLP

Tom Geoca
South Coast Hydraulics

Management: President and CEO, Dean Theymy, has a combined thirty years of experience in the electrolytic industry. Prior to founding Neopure Technologies LLC, Mr. Theymy was the founder and President of Neohydro, bringing electro-oxidation water treatment to the oil and gas industry. Prior to Neohydro, Mr. Theymy was Vice President of Chloro Guard Electronics Corp., a provider of water treatment equipment to the industrial, consumer, and medical markets. Previous to Chloro Guard, Mr. Theymy was Vice President of Pathocell Corp., the developer of the patent-pending Pathocell™ electrode technology. Mr. Theymy also served as a Director of New Environmental Solutions, Inc. focusing on environmental issues and waste disposal, and also as a consultant for Oxidant3 Corp.

Nicholas Kambouris, Vice President – Product Development. Mr. Kambouris will be responsible for the manufacture and assembly of the proprietary electrode cells used in the PathoCell™ technology. Mr. Kambouris has been instrumental in making the electrode units, and continues to further develop and improve on the technology.

Mr. Jeffrey R. Harder, Esq., Member of the Board of Managers, is a partner at Jackson Walker L.L.P. a Texas-based law firm. Mr. Harder has over 30 years of experience in representing technology companies, both public and private, as well as, investors, venture capitalists, technology transfer departments and entrepreneurs engaged in commercializing inventions.

Mr. Tom Geoca, Member of the Board of Managers, is President of South Coast Hydraulics, a Houston-based company specializing in hydraulic service, repair, and manufacturing. Mr. Geoca also serves as Chairman of the Houston Chapter of the Society of Manufacturing Engineers, and provided assistance in manufacturing for the operational prototypes for Neohydro Corp.
