

Executive Summary

Executive Summary for Remote Light, Inc. A portfolio of emerging technologies dedicated to the innovative use of ultraviolet (UV) light, optics and fiber optic light.

Introduction

Remote Light Inc. (RLI) is engaged in the business of harnessing light—within both the ultraviolet (UV) and infrared (IR) spectrums—in ways that dramatically increase its efficiency as a tool for purification, disinfection and communication. The ability to manipulate light efficiently for use in these applications emanates from RLI's competency in optic technology and related intellectual property. Remote Light owns or controls more than 120 US and international granted patents, applications, and exclusive patent licenses combining optics with fiber optics and UV light for a broad range of purification and disinfection applications.

RLI is using its vast intellectual property to enter major markets via licensing agreements with global partners. These markets have a cumulative annual value of more than \$500 billion. The highlights of a number of the applications are listed below.

Wastewater Purification / Disinfection

RLI has patented an innovative light reactor that utilizes ultraviolet light (UV) to purify and disinfect wastewater considerably faster than traditional systems. When incorporated into a wastewater filtration system, this reactor will rapidly destroy all known and unknown viruses and bacteria in the water and will substantially reduce the use of environmentally unfriendly chlorine in these systems. A demonstration project conducted on an actual hog farm confirmed that a unique filtration system incorporating the UV reactor could convert hog wastewater into pure drinking water. The technology is targeted for municipal (human) waste, industrial waste water systems, and animal waste filtration systems.

Drinking Water Purification / Disinfection

RLI has patents that extend its use of ultraviolet light into the purification and disinfection of drinking water and other fluids. In tests conducted by the Department of Microbiology, Pathology and Parasitology at North Carolina State University, the RLI method of sterilization was shown to eradicate E.coli bacteria in mere minutes rather than the hours required by traditional methods utilizing ultraviolet light. In another test conducted at the University of North Carolina-Chapel Hill School of Medicine, the RLI method was used to inactivate the herpes simplex virus (HSV) "one million-fold with as little as 3 seconds exposure", (compared to 3 days using traditional methods) is a result that the microbiology and parasitology UNC Medical School professor described as "the most efficient inactivation of HSV that I have experienced" in his, at that time, 28 year tenure as an HIV expert. Targeted initially for use in purifying drinking water (consumer, commercial, municipal, and military), the technology would then be extended for purifying industrial water.

This disinfection technology dramatically increases the rate of eradication of microorganisms as well as the rate of throughput, thereby disinfecting water in a fraction of the time with less energy when compared to other systems.

Air Purification / Disinfection

Air pollution / contaminant treatment can be effective via photocatalysis, to remove airborne viruses like Legionnaire's disease. The disinfection technology rapidly eradicates microorganisms permitting higher throughput. The science behind the purification technology works to break carbon-carbon bonds of noxious chemical compounds utilizing UV light and a catalyst like titanium dioxide and then converts them to harmless elements.

This air purification and disinfection technology will target, among other applications, emissions from automobile exhausts, and smokestack pollution emitted from coal-fired utilities and oil and gas refineries.

Appliance / Surface Disinfection

The same technology used in the purification and disinfection of water is also effective in the removal or elimination of organic compounds from other fluids in order to prevent the spread of disease through the use of water. To develop applications in this area, RLI plans to collaborate with a major appliance manufacturer to develop a proprietary UV device that would be plugged into a port to disinfect water used in commercial and residential dishwashers. RLI then plans to evolve this device for use in washing machines, ice machines and biological storage. Surfaces and other disinfection applications can be effective to remove pathogens in the food processing industry.

Medical

Although the early use of the RLI UV technology will be for the prevention of disease, it also has applications in the treatment of disease. One potential application is an alternative to the use of angioplasty in the treatment of heart disease and the prevention of heart attacks. RLI has granted patents for an alternative method for reopening arteries that uses UV light instead of a balloon. It is based on the ability of UV light to convert fatty acids, such as cholesterol plaque, into a gas, potentially "melting" the plaque away.

Blood disinfection is another potential application where storage time is very limited but the time required for tests for multiple viruses has increased.

Communication

Regarding the infrared end of the light spectrum, RLI has filed a series of patents that anticipate the use of its lighting system for both illumination and communication. One patent envisions the same fiber cable used to distribute light to a room would also be used to transmit and receive voice and data through the use of infrared light. One of our scientists has already demonstrated voice recognition through the visible lighting system.

Business Model

The primary responsibility of RLI management will be to license the company's UV and infrared intellectual property portfolio via third parties. The team will also work to create spin-out companies, define markets, create business plans, identify and place management teams, and find the appropriate strategic or financial partners to take each subsidiary forward as an operating company if licensing is not an option.

RLI intends to derive its principal revenues from licensing fees, management agreements with subsidiary companies, and liquidity events created by the sale or public offerings of the subsidiaries. The intellectual property rights will be retained in RLI and licensed to each subsidiary company or licensee based on the markets served and the applications developed.

The plan will be executed through third party licensing professionals who we have identified and are currently working with. A series of other consulting relationships will be put in place with qualified, knowledgeable, seasoned managers who have industry specific knowledge. RLI has identified over 20 individuals who may become part of this effort.

Market Demand

The markets addressable by RLI's UV technologies represent over \$500 billion. The annual Water and Wastewater purification and disinfection market exceeds \$400 billion globally. The annual Air purification and disinfection market approaches \$100 billion globally. The visible lighting market that our subsidiary company, Central Illumination Company, addresses exceeds \$50 billion annually.

Management

Isaac B. Horton, Ph.D., Founder and principal innovator, Dr. Horton has served as the Chairman and CEO for RLI since 1999. Prior to establishing RLI, Dr. Horton held various positions at the Rohm and Haas Company. He also was employed as a drug designer at the DuPont Company. Dr. Horton received his under-graduate degree from UNC-Chapel Hill, his doctorate degree from Indiana University, and attended the Wharton School of Business.

J. Stephen Burnett, Co-Founder and Senior V.P. Technology Licensing. Prior to co-founding RLI in 1999, Mr. Burnett was a financial consultant and Registered Investment Advisor, mostly with Smith Barney, for approximately 10 years. Mr. Burnett previously was an entrepreneur in Raleigh, NC and received his under-graduate degree from UNC-Chapel Hill and attended Wake Forest University School of Law.

Ahmed Shaikh, Executive V.P. of Operations. Before joining Remote Light, Inc Mr. Shaikh served as President & COO of The Knockout Group Inc, a strategically-integrated global marketing company committed to the development of celebrity branded products that are safe and environmentally friendly. Prior to that he served as President of Internet Global Inc, a Dallas-based Internet service provider. He worked with the entire organization to help coordinate all major business activities and projects. Before Internet Global Mr. Shaikh was the Senior Vice President of Operations, Store Planning, and Real Estate for Computer City, America's second largest computer superstore retailer, which had annual sales of \$2 billion from operations in the U.S. and Canada. Prior to Computer City he was Regional Operations Manager for Comp USA, the largest computer superstore retailer with annual sales of over \$3 billion. He holds a Master of Science in Economics from the University of Sindh, Pakistan.

Phil Johnston, J.D., Chief Legal Counsel. A former CEO of two public companies and director of five others, Mr. Johnston led these companies to double digit revenue growth and has raised over \$100 million in private capital. He has served on the SEC Audit Committee as a Financial Expert and is the Founding Chairman of the Board of the North Carolina Electronics and Information Trade Association (NCTA), now the largest technology trade association in NC. Named the 1995 Entrepreneur of the Year by the Council for Entrepreneurial Development (CED), Mr. Johnston graduated with a bachelor's degree in economics from Duke University before going to UNC-Chapel Hill to study law. He continued his education at Harvard University and Stanford University and is an advisory board member at The Bryan School of Business and Economics.