



Mar 6, 2015

Title: NBD Nanotechnologies, Inc. Wins \$750,000 NSF SBIR Phase II Award for Commercialization of Enhanced Condensation Coating Technology

Press Release:

Boston, MA- NBD Nanotechnologies, Inc. (NBD) has been awarded a \$750,000 grant for their **NSF SBIR Phase II** Proposal on “*Surface Coatings for Enhanced Efficiency of Industrial Condensers.*” The two-year grant, starting Mar 1, 2015, supports the company’s enhanced power plant condensation coating technology program through pilot testing with third party validation.

NBD’s innovation presents a leapfrogging technology for the Water-Energy Nexus that addresses the key commercial bottlenecks of durability, scalability and performance that have stymied previous efforts to improve condenser efficiency through coating technologies.

Based in Boston’s emerging water technology cluster, NBD participates in the Massachusetts cleantech ecosystem at Greentown Labs, where it collaborates with industry and research partners to improve the efficiency of power generation facilities. NBD thanks its many partners and supporters, guiding their efforts to tackle energy efficiency challenges with its coating technologies.

During Phase I of its NSF SBIR award, NBD conducted successful lab-based testing that demonstrated the efficacy of its technology and established the need for larger-scale pilot testing of its proprietary coating technologies. Through the NSF Customer Identification Program, NBD also formed strategic partnerships in the energy industry that will now enable pre-commercialization validation studies to quantify the efficiency gain and durability of the surface coating at a system-level in industrial condensers during Phase II of the SBIR grant.

The advanced studies made possible by this NSF SBIR Phase II grant for the larger scale pilot testing will enable NBD to complete the pre-commercialization validation of its coating technology and prepare NBD to successfully enter its primary steam condenser market.

About NBD Nanotechnologies, Inc.

NBD Nanotechnologies, Inc. is a venture-backed advanced coatings and custom materials company dedicated to environmentally supported water acquisition, preservation, and management. NBD, which stands for Namib Beetle Design, develops *durable, functional* surface



coatings inspired by how the Namibian Desert beetle harvests its own drinking water from moisture in the fog. NBD R&D includes the development of novel coatings that enhance condensation heat transfer, a critical phenomenon in many industrial applications, power generation facilities, and thermal desalination plants. More details at www.nbdnano.com.

About the National Science Foundation's Small Business Programs

At the National Science Foundation (NSF), Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) is an approximately \$160 million program that catalyzes the commercialization of high-risk technological innovations via research and development grants to small businesses and startups. NSF is an independent federal agency with a budget of about \$7 billion that supports fundamental research and education across all fields of science and engineering.