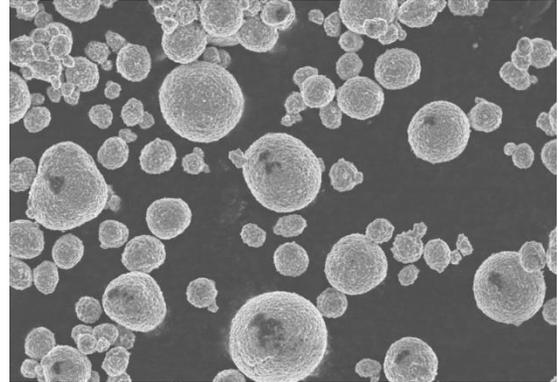


## Joint Press Release

### **3DBattery Company and NEI Corporation receive Grant from the BIRD Energy program to take a *Systems Approach* to Next Generation of High Energy Density Lithium-ion Batteries**

**September 15, 2020**

[NEI Corporation](#) (New Jersey, USA) and [3DBattery Company](#) (headquartered in Israel), announced today that the BIRD Energy program has awarded the companies a \$900,000 grant for the integration of an advanced anode material with a water-based electrode deposition process, leading to a new generation of high performance and low-cost Lithium-ion batteries. The eighteen-month project aims to first develop cathode materials that can be used with a water-based ion-conducting polymer binder, followed by pairing with a silicon-based anode. The performance of the new materials and associated processes will be demonstrated at the pouch-cell level.



The grant was awarded by BIRD Energy, a program established by the U.S. Department of Energy and Israel's Ministry of Energy together with the Israel Innovation Authority. The program is managed by the Israel-U.S. BIRD (Binational Industrial Research and Development) Foundation.

BIRD Energy has a rigorous review process and selects the most technologically meritorious projects along with those that are most likely to commercialize and bring about significant impact. Selected projects address energy challenges and opportunities that are of interest to both countries.

NEI Corporation is a leader in the development, manufacture and supply of specialty lithium-ion battery materials. NEI offers a variety of cathode, anode, and electrolyte materials, with a particular forte in producing specialty materials with compositions and particle morphologies that are not commonplace. In addition, NEI has expertise in producing composite particles that have a surface coating. All NEI products are sold under the tradename NANOMYTE®.

3DBattery Company is a startup company specializing in the design, development, and manufacture of innovative energy storage solutions. The company is bringing a paradigm change in the architecture of a lithium-ion cell. 3DB's main product is a silicon-based anode (AnoSep®), which presents an economical and scalable solution to increase battery capacity, battery cyclability, and fast charging of at least 6C (10 minutes charge to full capacity). The company has vast experience in ion-conductive polymers, polymer synthesis, water-based slurries, battery electrochemical processes, thin-layer and surface phenomena, and particle coating.

The BIRD Energy funded project will enable NEI and 3DBattery to merge their disparate, yet complementing, technologies and capabilities toward a common goal of advancing the state of the art of Lithium-ion battery technology. The team has adopted a Systems Approach, wherein advances in materials and processing are integrated so as to deliver high performance in practical batteries.

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“We are proud to support the project between 3DBattery and NEI Corporation to develop cathode and ion-conductive polymers that will lead to improved lithium ion batteries,” said Dr. Eitan Yudilevich, Executive Director of BIRD Foundation. “The BIRD Foundation will continue to support innovative projects that develop solutions for present and future challenges.”

Mr. Erez Schreiber, CEO of 3DBattery Company, believes that cross-border partnership will be a key enabler in advancing the business interests of the company while focusing in technology development in Israel. Dr. Ganesh Skandan, CEO of NEI Corporation, said, “This is our first ever program through the BIRD Foundation, and we are excited to be working with 3DBattery, who has a unique approach to ion-conducting binder materials, as well as anodes.”

3DBattery and NEI Corporation expect to roll out the first generation of their respective anode and cathode products by the end of the first quarter of 2021. The products will be optimized while the production is scaled through the rest of 2021.

### About 3DBattery Corporation

3DBattery (3DB) is a startup company based in Israel, specializing in the design, development, and manufacture of innovative energy storage solutions. 3DBattery(3DB) developing the next generation green, low-cost material synthesis and fabrication of high-performance lithium-ion batteries. Delivering high energy, high power, fast charging, and high cycling stability in-conjunction with intrinsically low fire propensity and advanced environmentally friendly fabrication technology. The company addresses all market segments, such as electro-mobility (EV and alike), energy storage (ESS), and specialty industries (like Medical Devices and Hearing Aids).

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### About NEI Corporation

NEI develops, manufactures, and sells advanced materials for a broad range of industrial customers around the world. The company’s core competencies are in designing, developing, and producing products that meet the specific application needs of its customers. More importantly, NEI is a **solutions provider**, wherein they don’t only produce materials, but also work closely with customers to implement them into their applications. NEI’s products, which are sold under the registered trademark **NANOMYTE®**, are backed by a suite of issued and pending patents. NEI’s products include: [Functional & Protective Coatings](#), [Lithium-ion Battery Materials](#), and [Specialty Nanoparticle-based products](#).

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