

Testimony of

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Before the

Energy and Technology Committee

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Regarding

Proposed S.B. No. 600 - An Act Concerning Energy Storage Resources and Wind and Large-Scale Hydropower Facilities

Proposed H.B. No. 5002 - An Act Concerning the Development of a Green New Deal

Proposed H.B. No. 5789 - An Act Concerning the Lead by Example Program

Proposed H.B. No. 6237 - An Act Requiring A Study of Energy Storage Projects and Distributed Generation in the State

The Connecticut Center for Advanced Technology, Inc. (CCAT) offers the following comments on concepts raised in proposed bills that would enhance energy reliability while improving environmental performance and economic development in the state of Connecticut.

CCAT is a nonprofit corporation that provides services and resources to entrepreneurs, businesses, industry, academia, and government. CCAT Energy has been established to improve the economic competitiveness of the region through solutions that lower energy costs, increase sustainability, and improve long-term energy reliability. CCAT administers several energy, education, and manufacturing initiatives and works with a variety of stakeholders to enhance economic growth in Connecticut through the development, manufacture, and deployment of clean energy technologies.

Proposed Bill 600 - An Act Concerning Energy Storage Resources and Wind and Large-Scale Hydropower Facilities. CCAT supports the concept raised in the proposed bill. CCAT agrees that leveraging existing energy storage resources, such as Connecticut's electrochemical and hydrogen industries, with future wind and large-scale hydropower facilities would make better use of the intermittent renewable generation and bolster Connecticut's clean energy economy. Connecticut's energy storage industry is a valuable economic resource that can be leveraged to make the development of out-of-state large-scale wind and hydropower facilities of higher value here in Connecticut. CCAT Energy has extensive knowledge and contact with the energy storage and wind industries in Connecticut and can provide assistance to the Connecticut Department of Energy and Environmental Protection (DEEP) and other public agencies to help identify, assess, and model wind and energy storage solutions to meet critical loads.

Proposed H.B. No. 5002 - An Act Concerning the Development of a Green New Deal. CCAT strongly supports the concept raised in this proposed bill. Developing a "Green Economy" and creating and expanding jobs in energy efficiency, renewable energy, sustainability and grid resiliency is important for meeting Connecticut's energy and environmental goals, including the Renewable Portfolio Standards (RPS), climate change targets, and deployment of zero emission vehicles. Consistent with distributed energy plans developed by CCAT, there is a near term market opportunity for the deployment of 170 megawatts of clean distributed generation technology, 591 zero emission electric vehicles, and six to seven hydrogen fueling stations in Connecticut. CCAT also identified and quantified economic indicators including over \$600 million/year in revenue and investment for Connecticut's hydrogen and fuel cell companies. CCAT has undertaken extensive analysis and can assist the State to identify deployment opportunities and to quantify the specific benefits that Connecticut's "Green Economy" industries can provide to the State.

Proposed Bill 5789 - An Act Concerning the Lead By Example Program. CCAT supports the concept raised in the proposed bill. CCAT suggests that State agencies have a great opportunity to demonstrate how to harmonize renewable development and siting considerations. There are numerous opportunities at state offices, education and healthcare facilities, public order and safety locations, seaports, high-traffic airports, correctional facilities, and more, which have been identified by CCAT, for the deployment of clean energy technologies that produce Class I renewable electricity and thermal energy. CCAT has done a considerable amount of work in this

area and would be available to assist the DEEP to identify targets, create additional tools, and develop metrics for the Lead by Example program.

Proposed Bill 6237 - An Act Requiring A Study of Energy Storage Projects and Distributed Generation in the State. CCAT supports the concept raised in the proposed bill to develop a study of energy storage projects and distributed generation in the state that would include recommendations regarding pilot programs, incentive programs, and whether changes should be made to promote energy storage projects in the State. Energy storage technologies, including pumped storage, hydrogen, Li ion battery and other electrochemical technologies can reduce electric costs to consumers, diversify fuel supply, improve grid performance, and enhance energy reliability. In addition, some of these technologies are manufactured in Connecticut and will increase opportunities for economic development and job creation. CCAT has the experience and technical expertise to assist DEEP undertake a study of energy storage projects and distributed generation in the State.

CCAT will make itself available to the Committee, DEEP, and other state agencies, upon request, to assist in the refinement of the legislation noted above.

Respectfully submitted,



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