State University of New York, College of Technology
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A number of briefing issues deal with generation, distribution and transmission of electricity. The Institute for Research and Technology Transfer (IRTT) at the Farmingdale State College is working on a number of projects that will result in the deployment of the latest "green" technology at the campus. Among these projects is one that combines megawatt-sized molten carbonate fuel cells that co-produce hydrogen which is stored and then fed to PEM fuel cells to produce additional electricity during peak load conditions. In effect this system is a combined heat and power system based on fuel cells that produce base load electricity, heat energy and peak load electricity. The molten carbonate fuel cells are fueled with anaerobic digesters gas, land fill gas or natural gas. The PEM fuel cells to be used are developed and patented by IRTT. IRTT also is part of the Advanced Energy Research and Technology Center at Stony Brook University and collaborates with Brookhaven National Laboratory. Efforts at IRTT are limited by the fact that it is located in Long Island Power Authority territory and therefore does not qualify to receive System Benefit Charge financing from NYSERDA. Since the benefits of the development activities in Farmingdale will be realized by power companies and their customers all over the State. It is suggested that SBC funding be provided to State Universities throughout the State even though they may be located on Long Island or may be customers of the New York Power Authority, because such projects have the potential to impact all power companies and their clients throughout the State.