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Comments on the New York State Energy Plan: 1. The proposed State Energy Plan on page XIII make reference to the development of the Marcellus Shale for drilling for the natural gas in the formation. As of the date of this comment there has been no complete life-cycle analysis of the energy costs for obtaining this gas. It is likely that the energy costs when calculated given the elaborate drilling configurations and the amount of water that must be delivered and then removed from each site will render the quantity of energy either no net gain or in fact, a possible net loss. The known outcomes of the existing drilling in the Marcellus are already indicative of a lack of POTWs that can treat or are willing to treat the enormous quantities of waste water associated with this type of extraction. In one recent case contaminated water was delivered for treatment at a facility which had originally agreed to treat it. It was determined that it could not be treated there and was trucked away. Because of the lack of public information about the chemicals that are used in hydraulic fracturing, it is impossible for the public to know what dangers exist. The possible contamination of drinking water resources is likely to take place, and the public will again be unaware of the dangers. This is a situation that must not be allowed to move forward. Complete disclosure of all chemicals used in the process must be made for public and scientific awareness. No drilling must ever be permitted near or in any of the watershed areas- not the CatDel nor any other. 2. The state must move forward aggressively in establishing renewable energy programs. Ease of installation and financial incentives must take place in order to allow industry, commerce, education and healthcare facilities and residences to install and use wind and solar and where possible, geothermal. We must as quickly as possible phase out all imported energy programs. Other states such as New Mexico have excellent programs and high goals for installation of solar and wind energy programs. New York must move forward aggressively in this area. 3. Page 114 discusses placing a CO2 pipeline and programs to develop carbon collection and sequestration. This is most likely to take place in certain geological formations and injection wells. There is not one proven successful effort in this area, although it has been discussed for a number of years. There are indications from current research that CO2 injection will not only escape, but will also chemically interact with the areas in which it is placed. This is area of effort that must be carefully controlled and very limited until there is strong evidence that it might succeed. Until that time, it is most prudent if the State does not plan on having this is a likely method of solving the CO2 problem from burning carbon-based fuels. Respectfully submitted. Diane D. Buxbaum