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New York Proposes Nuclear Subsidy Based on Social Cost of Carbon

Retaining Nuclear under Clean Energy Standard Contrasts with Phase-Outs in California and Illinois

July 20, 2016



Quad Cities Diablo Canyon announced a shutdown Output: 1122/1118 MW Output: 882/892 MW of both stations by Commission date: 1985/86 Commission date: 1973 2017/2018 citing \$800 Operator: Pacific Gas & Electric Operator: Exelon million in losses since Location: San Luis Obispo County Location: Cordova 2009. Despite nuclear power accounting for California Nuclear Regulatory more than 50% of Illinois Clinton Commission plans to replace total generation, the the Diablo Canyon facility Output: 1065 MW State Legislature failed Commission date: 1987 with clean sources by to consider a bill Operator: Exelon 2024/2025 when the licenses subsidizing the two Location: Clintor for the two units expire. plants before adjourning on May 31, 2016.

BOTTOM LINE

Reassurance for Exelon and Entergy

Exelon has announced its readiness to invest around \$200 million in the upstate plants upon signing the ZEC procurement contract. Entergy and Exelon have begun talks on selling the FitzPatrick plant to avoid a shutdown; Exelon said that the approval of CES program would provide enough confidence to refuel the FitzPatrick facility and continue its operations.

Long-Term Policy Solutions Needed

New York's nuclear subsidy could spur further debates on how to compensate the zero-carbon nature of nuclear power. Currently, wholesale markets such as PJM and NYISO do not value such attributes, which, combined with the low gas prices, has been a primary factor behind plant closures in Illinois and other states. New York's choice in extending the role of nuclear power in the transition towards renewables could provide an example for other states with an ailing nuclear industry.

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Sources: EnerKnol, NY PSC, NYISO, AGREE, Entergy, Exelon, NEI, PG&E

Opposition

In June, a coalition of 112 organizations led by the Alliance for a Green Economy objected to the proposal with the following arguments:



The proposal amounts to a nuclear tax of \$7.5 billion, investing twice as much as in renewables under CES



NYISO analysis of FitzPatrick deactivation identified no resource inadequacy 2016-2020



State investment of approximately \$1 billion in green manufacturing could create some 6,420 jobs



Nuclear fuel mining releases greenhouse gases, and spent fuel lacks safe long-term storage