

Date of Request: October 9, 2020  
Due Date: October 19, 2020

Request No. PACE\_AGREE-088  
NMPC Req. No. NM-1150

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Case Nos. 20-E-0380 and 20-G-0381  
Electric and Gas Rates

Request for Information

FROM: Pace Energy and Climate Center; Alliance for a Green Economy, Marianna Lo

TO: National Grid, Future of Heat Panel

SUBJECT: Future of Heat - CCUS

Request:

The following information request pertains to the gas filings for 20-G-0381.

88. In response to PACE\_AGREE-001 part a., the Company writes that the CCUS unit “is not expected to require significant regular maintenance other than loading the caustic at the time of potash removal.” Please provide an estimate of:
- a. The cost of loading the caustic at the time of potash removal.
  - b. How often caustic will need to be loaded for the purposes of potash removal (e.g. “Caustic will need to be loaded X amount of times per unit of gas consumed”).

Response:

- a. The cost of loading and unloading the caustic will be paid for by CleanO2. The manufacturer reports that their units, as currently operated, will consume on average 4 bags of caustic at 25 kg per bag and an average of 5 to 6 pails or potash at 25 kg each will be removed per collection. The actual cost to CleanO2 will vary depending on the location, but it is estimated that the loading and removal process will require two hours of labor.
- b. The units, as currently configured, are recharged with new caustic, on average, every two weeks during the heating season. The frequency is dependent on run times of the gas-fired appliances and size of the gas-fired appliance to which the equipment is connected.

Name of Respondent:  
Christopher A. Cavanagh, PE

Date of Reply:  
October 19, 2020