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Asked by: Adam Arreak Lightstone

Asked of: Hon. Patterk Netser

Minister Responsible for the Nunavut Arctic College

Number: 35-5(2)

Date: June 5, 2019

Subject: NAC Solar Power System

Panels

1. What solar panel make and model was selected for the Iqaluit project?

Response:

As per the report titled Performance Monitoring of the Nunavut Arctic College PV System: Nine Years of Reliable Electricity Generation, the make of the solar panels used was Siemens M55 single crystalline silicon modules and Solec S-53 single crystalline modules.

2. Why did NAC select these particular solar panels?

Response:

Nunavut Arctic College did not select the solar panels.

3. How does this specific solar panel compare in quality to other make and models?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

4. How many panels were installed, and how was that number determined?

Response:

As per the report titled Performance Monitoring of the Nunavut Arctic College PV System: Nine Years of Reliable Electricity Generation, there were 60 photovoltaic (PV) modules arranged in 5 parallel groups of 12 modules in series. The Nunavut Arctic College did not determine the number of modules that would be installed.

Inverter

5. What inverter make and model was selected?

Response:

As per the report titled Performance Monitoring of the Nunavut Arctic College PV System: Nine Years of Reliable Electricity Generation, the PV array is connected to a Prosine 5000 GT 3-kW inverter

6. Why was this specific inverter selected?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

Position

7. How did NAC determine the position of the panels?

Response:

The Nunavut Arctic College did not determine the position of the panels.

Installation

8. What certified electrical contractor was hired to install the system?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

9. Why was this company chosen to perform the installation?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

10. Were any local technicians trained on solar installation or operation as part of the project? If so, what did the training involve?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

Inspection

11. Who performed the final inspection?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

12. What were the results of the inspection?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

Cost

13. What was the purchase price of the;

- a. Solar panels;
- b. Inverter;
- c. Additional equipment to monitor performance; and
- d. other

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

14. What was the transportation cost of the;

- a. Solar panels;
- b. Inverter;
- c. Additional equipment to monitor performance; and
- d. Other

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

15. What was the installation cost of the
- Solar panels;
 - Inverter;
 - Additional equipment to monitor performance; and
 - Other

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

16. What other costs were included in the total project cost?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

Other

17. Have the solar panels performed as expected?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question. However, as per the report titled *Performance Monitoring of the Nunavut Arctic College PV System: Nine Years of Reliable Electricity Generation*, the conclusion seems to imply the panels performed was typical to that of arrays installed elsewhere

18. What is the total energy generated from this project so far?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

19. How much energy the panels generate each month?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

20. What lessons did NAC learn from the project?

Response:

As per the report titled *Performance Monitoring of the Nunavut Arctic College PV System: Nine Years of Reliable Electricity Generation*, it is outlined that this project was not lead by the Nunavut Arctic College and thus NAC did not perform any closing report.

21. If the project were to be repeated, what would be done differently?

Response:

The project is still ongoing and the entire photovoltaic array and configuration has been replaced since the initial installation.

22. Are the results from this project helping to inform NAC on how to shape their renewable energy policies as they move forward? Is the learning from this project helping NAC to develop other renewable energy projects?

Response:

The Nunavut Arctic College does not have any immediate plans to develop and implement its own renewable energy program.

23. What other relevant information would Nunavummiut gain from NAC's solar panel project?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

24. What sort of maintenance has been required on this solar project?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

25. Does NAC have end-of-life concerns for solar energy systems?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.

26. How long do they expect panels to last, and can they be recycled at the end of their lifetime?

Response:

The Nunavut Arctic College does not have this information, and cannot answer this question.