



Government of Bermuda

Ministry of Tourism & Transport, Culture & Sport

MEMORANDUM

To: Mr. Clark Somner, Clerk to the Legislature
From: Mrs. Carlita O'Brien, Acting Permanent Secretary
Date: 23 September 2026
Re: Responses to Parliamentary Questions

Below are the responses to the Parliamentary Questions that were asked by The Hon. L. Craig Cannonier, JP, MP via his correspondence dated 9 September 2026.

1. Will the Honourable Minister please provide this Honourable House with the total cost of the solar energy project installed at the National Sports Centre, including a breakdown of the original contract value, any subsequent variations or additional expenditure, the names of all contractors and subcontractors engaged on the project, and the amount paid to each as of the date of this response?

Response: The project was an integrated energy project rather than a solar installation alone

Original contract value: \$3,234,952.07. Overruns of \$361,000.00 were approved by the Board of Trustees on 27 July 2023, giving a revised total of \$3,595,952.07.

Phase	Element	Value
Mobilisation	Pre-development, insurance, energy data collection, geotechnical study and permitting	\$119,400.00
Procurement 1	Heat pump	\$376,455.84
	LED lighting	\$371,856.54
	Eniscopes	\$120,000.00
Procurement 2	Panels	\$710,701.60
	Racking	\$282,585.90
	Batteries	\$486,192.59
	Balance of system	\$232,063.01

Phase	Element	Value
Installation 1	Eniscope energy meters	\$32,280.24
	Heat pump	\$92,874.00
Installation 2	LED lighting	\$60,854.66
Installation 3	Panels	\$100,778.46
	Racking	\$95,320.75
	Batteries	\$70,201.19
	Balance of system	\$18,241.76
Project close-out	Testing and commissioning	\$65,145.53
Total		\$3,234,952.07

Contractor: Atlantic Energy Solutions Group (AESG), engaged on a turnkey basis. AESG has been paid in full apart from \$9,500.00, which is withheld because the final phase was not completed. AESG provided an Outstanding Task List setting out three phases of remaining work with a total value of \$361,000.00

Phase	Element	Value
Phase 1	North side — three inverters, AC cable and interconnection, AC panel and disconnect switch installation	\$13,000.00
Phase 2	Canopy completion — trenching, conduits, breakthrough to inverter room, laying DC cables	\$36,000.00
Phase 2	South side — three inverters, AC cable from inverter, disconnect switch installation and interconnection	\$35,000.00
Phase 3	Aquatics Centre — seven inverters, AC cable to main electrical room, installation of disconnects and interconnection	\$102,000.00
Phase 3	Microgrid — two inverters, AC cable to microgrid, accumulation panel, installation of disconnect and interconnection	\$130,000.00
All phases	Installation labour, equipment rentals and miscellaneous charges	\$45,000.00
Total		\$361,000.00

Subcontractors: the Centre did not engage any subcontractors and holds no record of what AESG paid its own suppliers. The only third parties the Centre paid directly were the manufacturers Mayer and Blue Sun, and those amounts are given below.

Payee	Element	Amount	Date paid
Mayer	Aquatics Centre (originally \$127,138.85; final invoice increased)	\$155,595.74	6 November 2023
Blue Sun	Microgrid — first instalment	\$72,214.42	1 November 2023
Blue Sun	Microgrid — second instalment	\$72,214.42	14 March 2024
AESG	Balance of the variation, against invoices 1 to 4	Balance	Various

2. Will the Honourable Minister please provide this Honourable House with the total electricity generated by the National Sports Centre solar energy system, measured in kilowatt-hours, for each month since the system became operational, together with the projected electricity generation for each corresponding month and details of any period during which the system was partially or fully non-operational?

Response: The system has generated 500,728 kWh to date.

It has three arrays. Two are running. The third and largest — 990 of the 1,498 panels, serving the Aquatics Centre — has never been switched on.

The reason is regulatory: at 756.49 kW the system is above the 500 kW threshold, at which a Bulk Energy Licence is required. The Centre has now executed that licence and expects the array in service in October 2026.

The figures below therefore reflect about one-third of the installed system. They are not a measure of how the system performs as designed.

Reading date	North Field	South Field	Total
10-Jan-24	4,550	—	4,550
8-Feb-24	3,920	—	3,920
11-Mar-24	9,490	—	9,490
11-Apr-24	10,000	—	10,000
13-May-24	18,290	—	18,290
11-Jun-24	17,660	—	17,660
11-Jul-24	19,040	—	19,040
12-Aug-24	15,750	—	15,750
13-Sep-24	4,770	—	4,770
11-Oct-24	3,320	—	3,320
15-Nov-24	6,890	—	6,890
12-Dec-24	6,730	—	6,730
10-Jan-25	6,240	—	6,240

Reading date	North Field	South Field	Total
11-Feb-25	9,120	—	9,120
11-Mar-25	9,260	2,320	11,580
11-Apr-25	14,420	20,470	34,890
12-May-25	19,559	25,956	45,515
10-Jun-25	17,980	23,855	41,835
8-Jul-25	19,780	17,360	37,140
11-Aug-25	20,519	19,301	39,820
10-Sep-25	16,046	15,701	31,747
10-Oct-25	12,636	10,530	23,166
11-Nov-25	8,420	8,255	16,675
8-Dec-25	8,408	6,364	14,772
11-Jan-26	13,337	8,943	22,280
9-Feb-26	10,730	8,314	19,044
9-Mar-26	15,887	10,607	26,494

Period	North Field	South Field	Total
FY2024 (from commissioning)	17,960	—	17,960
FY2025	127,070	2,320	129,390
FY2026	177,722	175,656	353,378
Total generated to date	322,752	177,976	500,728

The original energy audit and microgrid proposal forecast annual production of 1,234,727 kWh for the system as a whole, ranging from approximately 74,480 kWh in January to approximately 128,130 kWh in July.

Generation in FY2026 totaled 353,378 kWh, approximately 29 per cent of that forecast. The forecast assumed all three arrays in service. With the Aquatics Centre array — some two thirds of installed capacity — not yet energised, the two operating arrays have performed broadly in line with their proportionate share of the design output.

Periods of partial or non-operation:

- The Aquatics Centre array (499.95 kW DC, 990 modules) has never been commissioned or energised, for the licensing reason set out above. It is expected to be brought into service in October 2026.
- The North Carport array has been in continuous operation since 17 December 2023.
- The South Carport array has been in continuous operation since March 2025.

3. Will the Honourable Minister please provide this Honourable House with the National Sports Centre's electricity expenditure for the financial year immediately preceding the solar energy system becoming operational and for each financial year thereafter, together with the total value of electricity savings or credits attributable to the solar project to date and the original projected annual financial savings and payback period for the project?

Response: The North Carport array was commissioned on 17 December 2023, during the 2024 financial year. Electricity expenditure across all site meters for that year and the preceding and following years is set out below. The Centre's financial year runs from 1 April to 31 March.

Financial year	Total BELCO expenditure
FY2022 (Apr 2021 – Mar 2022)	\$510,400.74
FY2023 (Apr 2022 – Mar 2023)	\$655,801.23
FY2024 (Apr 2023 – Mar 2024)	\$574,629.96
FY2025 (Apr 2024 – Mar 2025)	\$735,957.55
FY2026 (Apr 2025 – Mar 2026)	\$692,201.50
FY2027 to date (Apr – Aug 2026)	\$229,042.43

Savings attributable to the solar installation are \$165,848.72 to date and are rising each year.

Financial year	Savings on consumption	Value of exported solar	Total savings
FY2024	\$1,997.61	\$2,481.84	\$4,479.45
FY2025	\$31,985.93	\$14,851.35	\$46,837.28
FY2026	\$94,498.39	\$20,033.60	\$114,531.99
Total to date			\$165,848.72

The original projection was a benefit of \$14,000 a month, or \$168,000 a year. That figure assumed a twenty-year lease with the contractor, which was never taken up, and assumed all three arrays generating.

The project was financed instead by a ten-year loan at \$33,658 a month so that the debt would be retired in half the time and the Centre would take the full benefit of the system sooner.

Yours sincerely,
Carlita O'Brien
Carlita O'Brien
Acting Permanent Secretary