Solar Photovoltaic Assessment of Polyclinics



Stuart Bannister 1/20/2017

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1. Background

The Government of Barbados is seeking to reduce its dependence on fossil fuel as well as reducing greenhouse gas (GHG) emissions within the electricity sector. The Government has made a commitment to have 65% of total peak electricity demand by 2030 being generated from the use of renewable energy technologies. To this end, the government has received funding from the Global Environmental Facility (GEF) and project support from the United Nations Development Programme (UNDP) towards the creation of the Disaster Risk and Energy Access Management (DREAM) Project.

The objective of the DREAM Project is to reduce energy consumption and GHG emissions from fossil fuel power generation, in addition to enhancing the country's Disaster Risk Response (DDR). The project seeks to meet this objective by promoting decentralized solar PV electricity generation in Barbados at thirty-five (35) community and resource centres and nine (9) polyclinics throughout the island.

This consultancy covers the assessment of nine (9) polyclinics, where 5,000 watt PV systems are to be installed, and the monitoring and reporting on the installation at these sites. It also includes monitoring and reporting during the installation phase of the PV systems at thirty-five (35) community and resource centres.

2. Introduction

This report presents the findings from the site assessments that were conducted at nine (9) polyclinics in an effort to identify the various features of the polyclinics such as the type of roof structure, condition of roof, annual electricity consumption etc. These site assessments were deemed necessary so as to allow for a comprehensive tender document to be prepared following the assessments.

The nine (9) polyclinics that were assessed are:

- Eunice Gibson
- Randal Phillips
- Maurice Byer
- Glebe
- Edgar Cochrane

- Brandford Taitt
- St. John
- St. Philip
- Winston Scott

The site assessments entailed collecting the most recent electricity bill, the electrical plans or floor plans, taking photographs of the roof, electrical panels within the polyclinic, the electricity utility meter and the proposed location for the PV equipment. During the site visit an overview of the project was given to the senior clerks or the Doctor responsible for the polyclinic. A representative from the Technical Management team at the Ministry of Health (MoH) was present at most of the site assessments.

3. Eunice Gibson Polyclinic Site Assessment

The Eunice Gibson polyclinic is located in Warrens, St. Michael. The PV Support Consultant met with the Senior Clerk Mr. Layne and gave an overview of the project.

The polyclinic has two floors and the roof of the polyclinic consists of a flat concrete roof as well as uPanel metal roof sections. From speaking to the Technical Management at the Ministry of Health, the roof has some leaks. These areas where the leaks are occurring must be addressed before the installation of the PV system takes place. The most suitable location for the PV modules is on the flat concrete sections of the roof.

The inverter, charge controller, batteries and other PV equipment can be installed in a vacant room which is located in the general workers' quarters or in the store room under the stairwell. The more suitable location for the PV equipment would be in the general workers' quarters since this room is not accessible to the public, has enough space for the PV equipment and is ventilated.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected and the annual electricity consumption at the polyclinic was 129,274 kWh and the average monthly electricity consumption was 10,773 kWh. Figure 1 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. The electrical panel information of the polyclinic can be seen in Table 1. See Appendix VII with the electrical panel photographs for this polyclinic.

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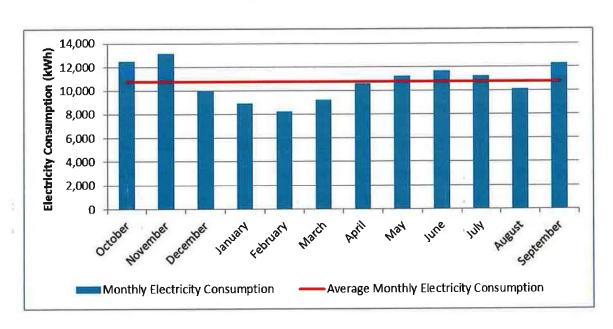


Figure 1: Eunice Gibson Polyclinic monthly electricity consumption

Table 1: Eunice Gibson Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Directory
Sub Panel	Small Store Room on First Floor	Yes
Sub Panel	Panel Room at Top of Staircase	None
Sub Panel Maternal Storeroom		None
Sub Panel Outside Diabetic Patient Office		Yes
Sub Panel	Under Stairwell by Lobby	Yes
Sub Panel Storeroom Close to Pharmacy		None

Name:

Eunice Gibson Polyclinic

Location:

Warrens, St. Michael

GPS Coordinates:

13° 8'27.44"N; 59° 36'20.91"W



Figure 2: Location of the Eunice Gibson Polyclinic Source: (Google)



Figure 3: Entrance of Eunice Gibson Polyclinic



Figure 3: General workers' quarters - RECOMMENDED



Figure 4: Storeroom under stairwell – Option 2



Figure 4: Roof Section Photograph 1



Figure 5: Roof Section Photograph 2



Figure 6: Utility Meter at Eunice Gibson Polyclinic

4. Randal Philips Polyclinic Site Assessment

The Randal Philips Polyclinic is located Oistins, Christ Church. The PV Support Consultant met with Mr. John Watts the Principal Environmental Officer and the Senior Clerk and gave an overview of the project.

The polyclinic has two floors and roof sections are constructed of uPanel metal sheets. The uPanel metal sheets on the south facing roof appear to be in good condition and this is the most suitable location for the PV modules to be installed.

The inverter, charge controller, batteries and other PV equipment can be installed a spare room which is in close proximity to the main electrical panel. This room is also not accessible to the public, is ventilated and has enough room for the PV equipment.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected during the site assessment and from the electricity bill the annual electricity consumption at the polyclinic was calculated to be 138,400 kWh and the average monthly electricity consumption was 11,533 kWh. Figure 7 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. The electrical panel information

of the polyclinic can be seen in Table 2. See Appendix V with the electrical panel photographs for this polyclinic.

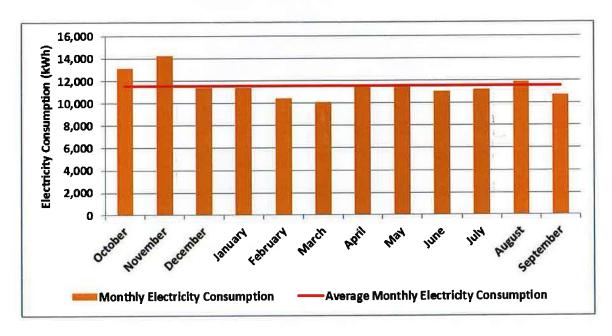


Figure 7: Randal Phillips Polyclinic monthly electricity consumption

Table 2: Randal Philips Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Directory
Sub Panel	Nursing Office GPO	None
Sub Panel	Waiting Area (west wing)	None
Main Panel	Main Panel Room	None
Sub Panel	Waiting Area (east wing)	None

4.1 Summary of Findings

Name: Location: Randal Phillips Polyclinic Oistins, Christ Church

GPS Coordinates:

13° 8'3.43.41"N; 59° 32'26.76"W



Figure 8: Randal Phillips Polyclinic Location - Source (Google)

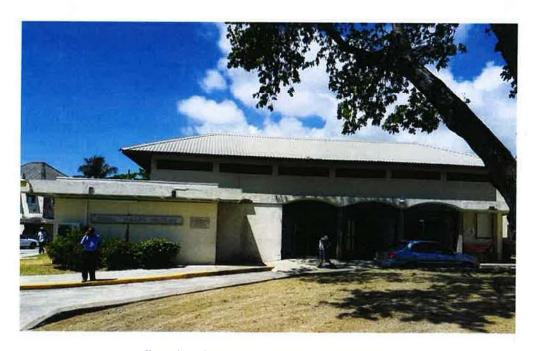


Figure 9: Main Entrance to Randal Philips Polyclinic



Figure 10: Proposed Room for PV Equipment



Figure 11: Utility Meter



Figure 12: South facing roof section



Figure 13: Other south facing section

5. Maurice Byer Polyclinic Site Assessment

The Maurice Byer Polyclinic is located in Church Street, Speightstown St. Peter. The PV Support Consultant met Dr McCollin and gave an overview of the project.

The polyclinic has two floors and the roof sections are constructed of uPanel metal sheets and these sheets appear to be in good condition. The PV modules can be installed on the south-west facing roof. There is enough space to accommodate the PV modules.

The inverter, charger controller, batteries and other PV equipment can be installed in the main electrical room. This room is not accessible to the public, has ventilation and has enough room for the PV equipment.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected during the site visit and the annual electricity consumption at the polyclinic was calculated to be 129,900 kWh. The electrical panel information of the polyclinic can be seen in Table 3. Figure 14 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. See Appendix IV with the electrical panel photographs for this polyclinic.

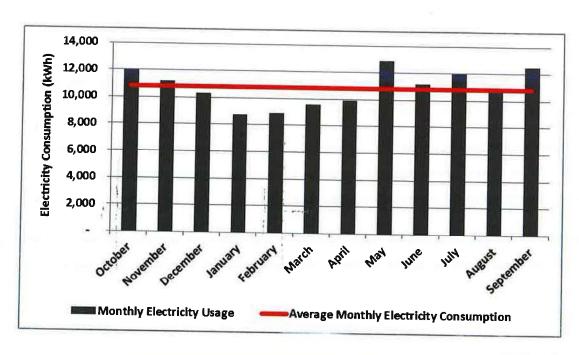


Figure 14: Maurice Byer Polyclinic monthly electricity consumption

Table 3: Maurice Byer Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Directory	
Sub Panel	Administration Hallway - First Floor	None	
Sub Panel	Administration Hallway - First Floor	None None	
Sub Panel	Outside Inspector Office		
Sub Panel	Waiting Area (Family Planning)		
Sub Panel	Waiting Area (Family Planning)	None	
Sub Panel	Waiting Area (Dental)	None	
Sub Panel	Waiting Area (Dental)	None	
Main and Sub Panel	Outer Electrical Panel Room	None	

Name: Maurice Byer Polyclinic

Location: Church Street, Speightstown St. Peter 13° 15′13.04″N; 59° 38′18.77″W

GPS Coordinates:



Figure 15: Maurice Byer Polyclinic location - Source (Google)



Figure 16: Entrance to Maurice Byer Polyclinic



Figure 17: Main electrical panel room - proposed location for PV equipment



Figure 18: Electricity utility meter at Maurice Byer Polyclinic



Figure 19: Roof Section – Photograph 1



Figure 20: Roof Section - Photograph 2



Figure 21: Roof Section – Photograph 3

6. Glebe Polyclinic Site Assessment

The Glebe Polyclinic is located in the Glebe, St. George. The PV Support Consultant met with the Senior Clerk Mr. Sandiford and gave an overview of the project.

The polyclinic is single story building and the roof sections are constructed of uPanel metal sheets. The uPanel sheets appear to be in good condition. The PV modules can be installed on the south facing roof which faces the back of the polyclinic. This roof has enough space to accommodate the solar PV array.

The proposed location for the PV equipment has not yet been identified, since there is no space available in the polyclinic to house the PV equipment. It was suggested by Mr. Thorne of the Technical Management form the MoH that a room be constructed to house the PV equipment.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected during the site visit and the annual electricity consumption at the polyclinic was calculated to be 98,719 kWh and the average monthly electricity consumption was 8,227 kWh. The electrical panel information of the polyclinic can be seen in Table 4. Figure 22 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. See Appendix III with the electrical panel photographs for this polyclinic.

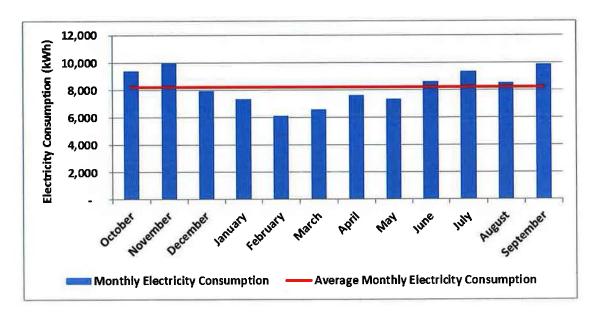


Figure 22: Glebe Polyclinic monthly electricity consumption

Table 4: Glebe Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Description	
Sub Panel (2)	Outside family planning section	None	
Sub Panel	Records room	Yes	
Main Panel	Outer Electrical Panel Room	None	

Name:

Glebe Polyclinic

Location:

GPS Coordinates:

Glebe St. George 13° 8'6.14"N; 59° 33'48.26"W

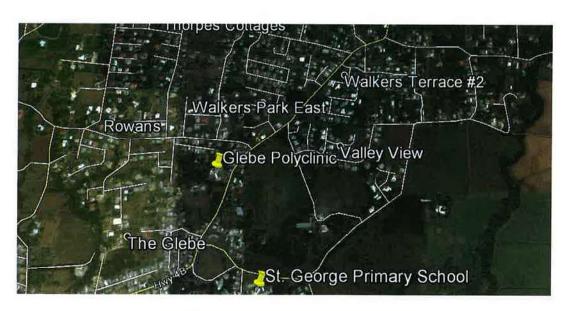


Figure 23: Glebe Polyclinic location - Source (Google)



Figure 24: Main Entrance of the Glebe Polyclinic



Figure 25: Electricity utility meter at the Glebe Polyclinic



Figure 26: Root Section - Photograph 1



Figure 27: Roof Section - Photograph 2



Figure 28: Roof Section - Photograph 3

7. Eugan Cochrane Polyclinic Site Assessment

The Edgar Cochrane Polyclinic is located at Wildey, St. Michael. The PV Support Consultant met with the Senior Clerk June Alleyne and gave an overview of the project.

The polyclinic is a single story building with a flat concrete roof and roof sections constructed of uPanel metal sheets. The most suitable place to install the PV modules would be on the flat concrete roof, since there is enough space to accommodate the modules and the modules could be oriented to face south for maximum system production.

There are no rooms within the polyclinic where the PV equipment can be housed. It was suggested that a room be constructed to store the PV equipment. The location of room is to be determined.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected during the site visit and the annual electricity consumption at the polyclinic was calculated to be 103,657 kWh and the average monthly electricity consumption was 8,638 kWh. Figure 29 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. The electrical panel information of the polyclinic can be seen in Table 5. See Appendix II with the electrical panel photographs for this polyclinic.

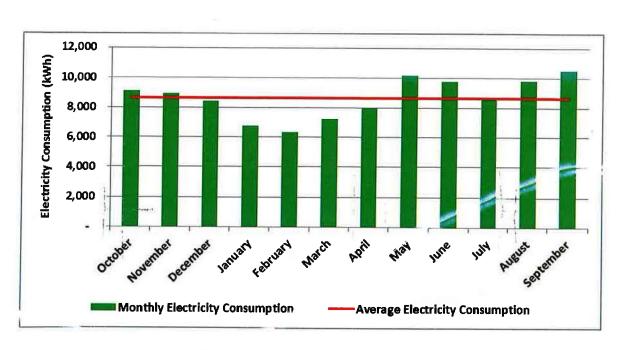


Figure 29: Fagar Cochrane Polyclinic monthly electricity consumption

Table 5: Edgar Cochrane Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Description
Main Electrical Panel	Outer Room	-
Sub Electrical Panel	Waiting Area West Wing	No
Sub Electrical Panel	Waiting Area East Wing	No
Sub Electrical Panel	Outside the Nursing GPO Office	No

Name:

Edgar Cochrane Polyclinic

Location:

GPS Coordinates:

Wildey, St. Michael 13° 5'33.58"N; 59° 35'10.47"W



Figure 30: Google Map Location of Edgar Cochrane Polyclinic



Figure 31: Front Entrance to the Edgar Cochrane Polyclinic



Figure 32: Electricity utility meter at the Edgar Cochrane Polyclinic



Figure 33: Roof Section - Photograph 1



Figure 34: Roof Section - Photograph 2

8. Brandford Taitt Polyclinic Site Assessment

The Brandford Taitt Polyclinic which is located in the parish of St. Michael. The PV Support Consultant met with the Senior Clerk and gave an overview of the project.

The polyclinic has two floors and the roof structure is constructed of uPanel metal sheets. The south facing roof should be able to accommodate the 5 kW of PV modules. However there are some holes in the uPanel sheets which should be repaired before installation takes place.

The inverter, charge controller, batteries and other PV equipment can be installed in the air conditioning equipment plant room which is located on the first floor of the polyclinic. It has adequate space for the PV equipment, is ventilated and not accessible to the public.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected and the annual electricity consumption at the polyclinic was 264,200 kWh and the average monthly electricity consumption was 22,017 kWh. Figure 35 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. The electrical panel information of the polyclinic can be seen in Table 6. See Appendix I with the electrical panel photographs for this polyclinic.

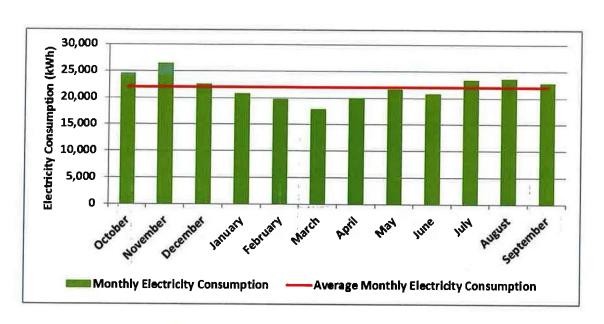


Figure 35: Brandford Taitt Polyclinic monthly electricity consumption

Table 6: Brandford Taitt Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Schedule
(2) Sub Panels	Kitchen / Lunchroom	Both sub panels have schedules
(2) Sub Panels	Air Conditioning plant room	One of the panels has a schedule
(2) Sub Panels	West wing (opposite Doctors office)	Both sub panels have schedules
(2) Sub Panels	East wing (in Inspectors store room)	Both sub panels have schedules
Main Panel	West wing Electrical Room	Main panel has a schedule

Name:

Brandford Taitt Polyclinic

Location:

Black Rock, St. Michael

GPS Coordinates:

13° 7′5.40″N; 59° 37′5.87″W



Figure 36: Location of the Brandford Taitt Polyclinic - Source (Google)



Figure 37: Main Entrance at the Brandford Taitt Polyclinic



Figure 38: Air conditioning plant room – proposed location for PV equipment



Figure 39: BLPC Utility Meter at Brandford Taitt Polyclinic



Figure 40: Roof Section - Photograph 1

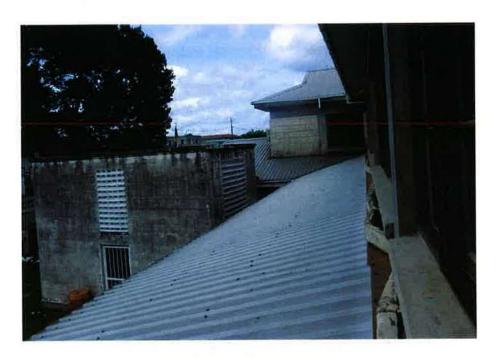


Figure 41: Roof Section - Photograph 2



Figure 42: Roof Section - Photograph 3

9. St. jonn Polyclinic Site Assessment

The St. John polyclinic is located in Glebe, St. John. It is the newest polyclinic having being opened in the last quarter of 2015 and houses the Constituency office and a library. The PV Support Consultant met with Dr Babb and Dr Edwards and gave an overview of the project.

The building which houses the polyclinic has multiple floors and the roof is constructed of uPanel metal sheets. The most suitable location for the PV modules is on the south facing roof which has enough space to accommodate the PV modules. The roof is structurally sound.

The inverter, charge controller, batteries and other PV equipment can be installed in an area which is located in archives. This area is not accessible to the public, is ventilated and has enough room to accommodate the PV equipment.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected during the site assessment and from the electricity bill the annual electricity consumption at the polyclinic was 339,600 kWh and the average monthly electricity consumption was 28,300 kWh. Figure 43 shows the monthly electricity consumption and the average monthly electricity consumption over a twelve month period. The electrical panel information of the

polyclinic can be seen in Table 7. See Appendix VI with the electrical panel photographs for this polyclinic.

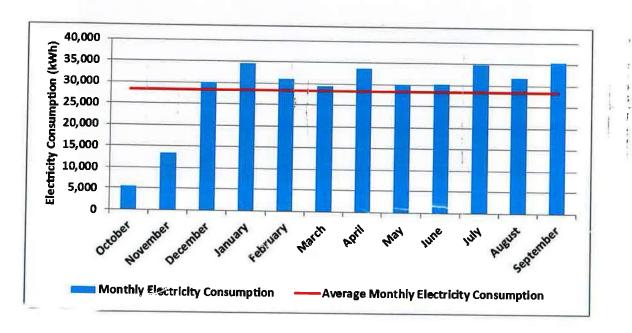


Figure 43: St. John Polyclinic monthly electricity consumption

Table 7: St. John Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Schedule
Main electrical panel	Main electrical room	The main electrical panel is labelled
Main electrical Panel	Opposite Telecoms room	No panel schedule
(3) Sub Panels	Environmental Department	One of the sub panels has a schedule the other two do not
(2) Sub Panels	Gym Area	Both have panels have schedules
(3) Sub Panels	Hallway by Radiology	One of the sub panels has a schedule the other two do not
(2) Sub Panels	Opposite Library	Both sub panels have schedules
Sub Panel	Dialysis Department	Sub panel has a panel schedule
(3) Sub Panels	Main clinic area (GP Area)	All three have panel schedules
(3) Sub Panels	Outside Lunch room	Two of the three panels have schedules

Name:

St. John Polyclinic

Location: GPS Coordinates:

Glebe, St. John 13^o 10'54.83"N; 59^o 29'47.38"W



Figure 44: Location of the St. John Polyclinic



Figure 45: Main Entrance at the St. John Polyclinic



Figure 46: Utility meter at the St. John Polyclinic equipment

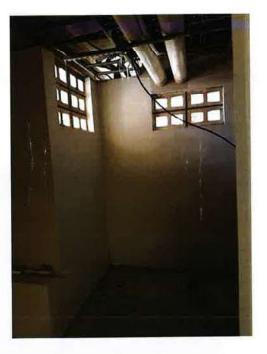


Figure 47: Archives section - proposed room for PV



Figure 48: Roof Section - Photograph 1

10. St. Philp Polyclinic Site Assessment

The St. Philip polyclinic is located in Six Roads, St. Philip. At the time of the visit the Senior Clerk was out of the office and the Clerk Mr. Brathwaite showed the PV Support Consultant around the polyclinic.

The polyclinic has two buildings located on the site. The main building consists of the administration department and doctors' offices and a newer building which houses the environmental department of the polyclinic. Both roofs are constructed of uPanel metal sheets. The main building is the larger of the two and has two floors. The environmental department office is a single story building.

The most suitable location for the PV modules is on the south facing roof that faces the main entrance to the polyclinic. The roof is constructed of uPanel metal sheets.

The inverter, charge controller, batteries and other PV equipment can be installed either under the stairwell or in a section of a meeting room just outside the Senior Health Sister's office. This room is not accessible to the public, is ventilated and has enough space for the PV equipment.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bills were collected during the site assessment. Both the main polyclinic and the building which houses the environmental department have separate utility meters. The annual electricity consumption of the main polyclinic was 82,327 kWh and the annual electricity consumption of the environmental department was 21,275 kWh. The combined the total annual consumption was 103,602 kWh. The average monthly electricity consumption of the main polyclinic was 6,861 kWh and for the environmental department it was 1,773 kWh. Figure 49 and Figure 50 show the monthly electricity consumption and the average monthly electricity consumption for the main and environmental buildings of the St. Philip polyclinic. The electrical panel information of the polyclinic can be seen in Table 8. See Appendix VII with the electrical panel photographs for this polyclinic.

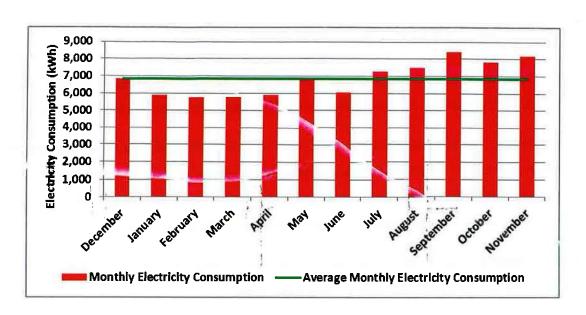


Figure 49: St. Philip Polyclinic (Main Building) monthly electricity consumption

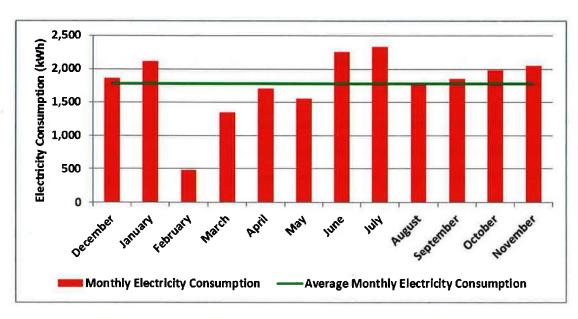


Figure 50: St. Philip Polyclinic (Environmental Department) monthly electricity consumption

Table 8: St. Philip Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Schedule
Sub Panel	First Floor Staircase to Admin Office	No panel schedule
Main Panel	Close to Admin Office	No panel schedule
Sub Panel	Nutrition room	No panel schedule
Sub Panel	Waiting Area	No panel schedule
(2) Sub Panels	Environmental Department	Both have panel schedules

10.1 Summary of Findings

Name:

St. Philip Polyclinic

Location:

GPS Coordinates:

Six Roads, St. Philip 13° 7'5.03"N; 59° 28'34.86"W



Figure 51: Main Entrance to St. Philip Polyclinic



Figure 52: St. Philip Polyclinic location - Source (Google)



Figure 53: Proposed room for PV equipment



Figure 54: Utility meter at St. Philip Polyclinic



Figure 55: Roof Section - Photograph 1



Figure 56: Roof Section - Roof Section

11. Winston Scott Polyclinic Site Assessment

The Winston Scott polyclinic is located in Ladymeade Gardens Jemmotts Layne, St. Michael. The PV Support Consultant met with the Senior Clerk and the Doctor in charge of the polyclinic and discussed the project.

The building which houses the polyclinic has two floors and roof sections which are constructed of concrete and uPanel metal sheets. The most suitable location for the PV modules is on the south west facing uPanel lean-to roof section.

The inverter, charge controller, batteries and other PV equipment can be installed in server room which is in close proximity to the main electrical panel. This room is also not accessible to the public.

The polyclinic has an emergency diesel generator which supplies the entire polyclinic with electricity when an outage occurs.

The electricity bill was collected during the site assessment and from the electricity bill the annual electricity consumption at the polyclinic was 438,900 kWh and the average monthly electricity consumption 39,900 kWh. Figure 57 shows the monthly electricity consumption and the average electricity consumption over a twelve month period. The utility meter was not accessible since it is located in a room that is locked. The electrical panel information of the polyclinic can be seen in Table 9. See Appendix IX with the electrical panel photographs for this polyclinic.

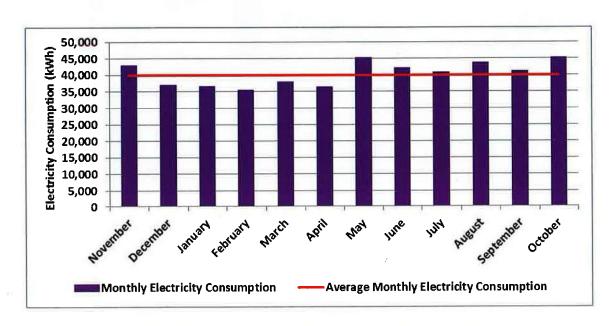


Figure 57: Winston Scott Polyclinic monthly electricity consumption

Table 9: Winston Scott Polyclinic electrical panel information

Type of Panel	Electrical Panel Location	Panel Schedule
Main Panel	Main electrical room	No panel schedule
Sub Panel	Main Hallway (next to general purpose room)	No panel schedule
(2) Sub Panels	Close to side exit	No panel schedules
(2) Sub Panels	Vaccine room	One of the sub panels has a schedule the other does not
Sub Panel	Fast track waiting area	No panel schedule
Sub Panel	Lab waiting area	No panel schedule
Sub Panel	Medical Prep Area	No panel schedule
Sub Panel	Sterilization Area	Has a panel schedule
Sub Panel	TB Department	No panel schedule
Sub Panel	Outside General Office	No panel schedule
Sub Panel	Store room (Inspectors Office)	Has a panel schedule

11.1 Summary of Findings

Name:

Winston Scott Polyclinic

Location:

Ladymeade Gardens Jemmotts Layne, St. Michael 13^{0} 5'32.54"N; 59^{0} 36'25.76"W

GPS Coordinates:



Figure 58: Winston Scott Polyclinic location - Source (Google)



Figure 59: Main entrance at the Winston Scott Polyclinic



Figure 60: Server room - proposed room for PV equipment at Winston Scott Polyclinic



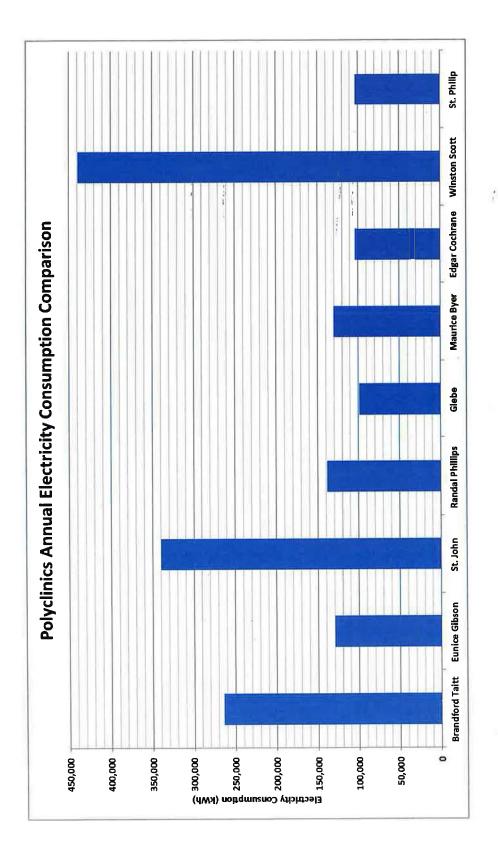
Figure 61: Roof Section

12. Summary

Table 10: Summary of the Nine (9) Polyclinics Site Assessment Information

82,327 kWh (Main (Environmental 129,274 kWh 264,200 kWh 339,600 kWh Building) and 438,900 kWh Department 21,275 kWh Building) and V02222 (Environme Departmen t Building) Building) V04374 V03540 V04862 V06628 All electrical panels have V06758 (Main ntal Not all electrical panels have schedules Not all electrical panels have schedules Not all electrical panels Not all electrical panels have schedules have schedules nformation schedules Air conditioning plant room quarters or under stairwell Storeroom under stairwell the Senior Health Sister's or meeting room outside Area in archives section Area in general worker Server room Roof is in relatively good Roof is in relatively good Roof is in relatively good Roof is in good condition condition but has some leaks condition but has leaks Roof is in excellent condition condition Black Rock St. Michael uPanel metal uPanel metal uPanel metal uPanel metal uPanel metal sheets & sheets & concrete concrete sheets sheets sheets Ladymeade Gardens Warrens St. Michael Jemmotts Layne St. Six Roads St. Philip Glebe St. John Polyclinic Michael **Brandford Taitt** Winston Scott **Eunice Gibson** Polyclinic St. Philip St. John 2 m 4 2

	Name of Polyclinic	Location of Polyclinic	Roof Structure	Integrity of Roof	Location of Room for PV Equipment	Electrical Panel Information	Utility Meter Number	Annual Electricity Consumption
	Randal Phillips	Oistins Christ Church	uPanel metal sheets	Roof is in good condition	No available room	Not all electrical panels have schedules	D32774	138,400 kWh
	Maurice Byer	Church Street Speightstown St. Peter	uPanel metal sheets	Roof is in good condition	Main electrical room	None of electrical panels V04174 have schedules	V04174	129,900 kWh
-02	Glebe	Glebe St. George	uPanel metal sheets	Roof is in good condition	No available rooms	Not all electrical panels have schedules	V05192	98,718 kWh
6	Edgar Cochrane	Wildey St. Michael	uPanel metal sheets & concrete	Roof is in good condition	No rooms available	Not all electrical panels have schedules	V05281	103,657 kWh



13. Conclusion

The nine (9) polyclinics assessed were:

- Eunice Gibson
- Randal Phillips
- Maurice Byer
- Glebe^{*}

- Edgar Cochrane
- St. John
- St. Philip
- Winston Scott

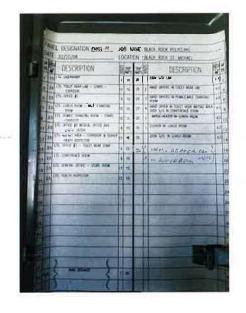
The roofs at these polyclinics were made of concrete or uPanel metal sheets or a combination of both. Different roof types require different methods of mounting the PV modules onto their structure. The cost of mounting the PV systems may therefore differ. From a visual perspective and in discussions with the relevant maintenance/technical persons at the polyclinics, most of the roofs are structurally sound. However, there are some holes in the uPanel metal sheets at the Eunice Gibson and Brandford Taitt polyclinics that should be addressed before installation takes place.

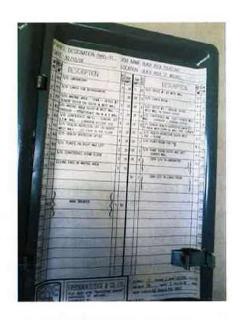
All nine (9) polyclinics have emergency backup generators. These emergency backup generators supply the full electrical loads of the polyclinic when an outage occurs. The PV systems to be installed will not be large enough to provide 100% back up power to the polyclinics in the event there is an outage. The design of the PV systems must take this into account. The PV system should be designed to operate with the existing emergency supply (i.e. the diesel generator) to reduce the amount of fuel consumed during an outage.

The electrical panel information from this assessment highlights the fact that most of the panel schedules or descriptions (which helps determine which loads are connected to what circuit) are missing. This would severely impact the project if the PV system is selected to provide power to the critical loads within the polyclinic, as these panel schedules would have to be created in order for this work to be carried out.

At Edgar Cochrane and the Glebe polyclinics structures will have to be built to accommodate the PV equipment. At the other seven (7) polyclinics there are existing rooms available for the PV equipment. Depending on the specifications of the PV equipment it can be kept on the outside of the polyclinics in a location which is deemed safe.

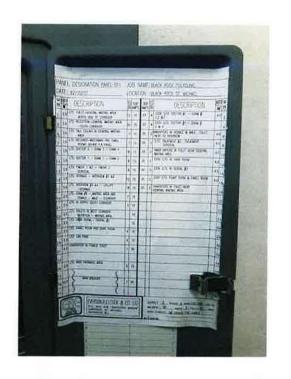
Appendix I - Brandford Taitt Polyclinic Electrical Panel Photographs



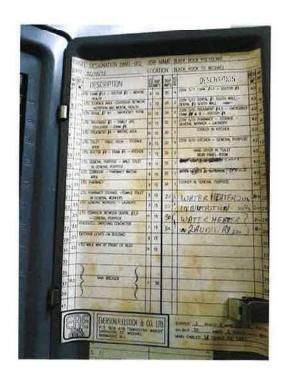


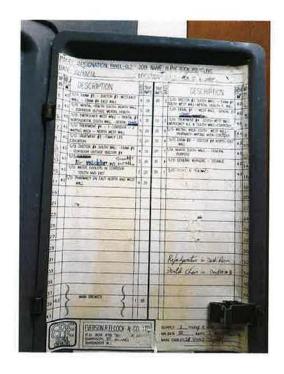




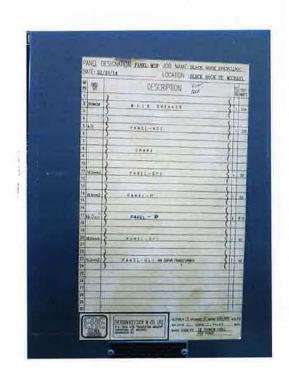












Appendix II - Edgar Cochrane Polyclinic Electrical Panel Photographs



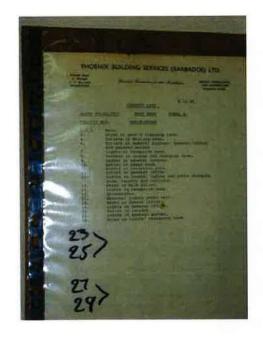




Appendix III - Glebe Polyclinic Electrical Panel Photographs

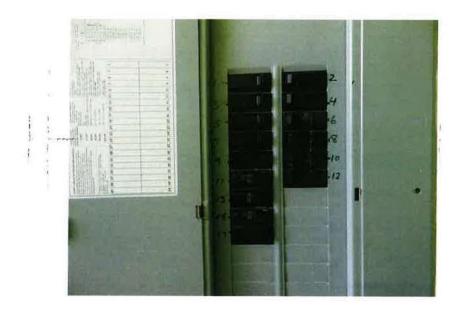








Appendix IV- Maurice Byer Polyclinic Electrical Panel Photographs





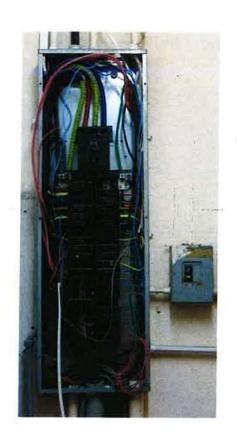












Appendix V - Randal Phillips Polyclinic Electrical Panel Photograph













Appendix VI - St. John Polyclinic Electrical Panel Photographs





				F	ANE	L	SCI	HE	DULE		PANEL-PLG			
ROJEC	T ST.	ИНОС	POLYCLINIC	cci	C D		LOAD		C.D	сст		Consta	POLES	CABL
MILL			The state of the s	The second second	RATING	Я	all residences		RATINO	No.	DESCRIPTION	018(1)	, CLEC	10AV
ADA	POLEI		DESCRIPTION		. 70			400	20	2 6	OLETS INSPECTORATE	3		10AW
DANS	10	2	OVETS RECEPTION	137	20				20	40	OLETS: SWILED OFFICER	1	1	
DWARE	. 1	3	O'LETS: INSPECTORATE	V	20	_		330	20	64	O'LETS: TRAINING ROOM	1	1	10AW
DANYG	1	3	OLETS INSPECTORATE 20	5	20				20	8.4	OLETS TRAINING ROOM	1	1.	10AV
	1	1	CASINAL DEAR	9	2.0			1333		10	SPACE			S. S. April
			SPACE	11			1	les o		12	SPACE	THE REAL PROPERTY.		1000
	1		SPACE	-				1000		14	SPACE			
			1	13	30		_	100		10	SPAGE	3 10 11	10.00	
MAYO	3) MAIN BREAKER	15	30			100		10	SPACE			
SUPPL MAIN I	WR	IASE A	WIRE 208Y/120 VOUTS 30 AMPS 3 POLES BUS 100 AM 40 MANO THINN CABLE IN 2" PVC CONE	APS .	FLUSH SURFA LUGS	CEN	TG.				TMR SALES & SERVICE LTD. FONTABE August 22, 2011 Located in Inspectorals on lower grou			EL





ROJEC	T : ST.	ЛОН	I POLYCLINIC		PANE	ΞL	sc	HE	DUL	E	PANEL - GL		_	To
CABLE	-			CCT	C.B.		LOAL		CA	CCI		- 000	POL	-
	POLES	Class	DESCRIPTION	No.	RATING	R	Y	B	RATING	No.	DESCRITON	_	-	1
10AWG	FULLS	A .	OLETS: GYM OFFICE	1	20	ess l			20	2	OVEYS INDOOR BIC10F	1	1000	1
		2	OLETS: TREADMILLS	3	20		AMIL		20	4	OLUTE REQUARENTS CICLS	1.2	1	110
10AWG		1	DIFIS TREADMILLS	5	-20				20	_6	GLE1S STRENGTH THANG	10	1	13
10AWG	-	-	OLETS WATER COOLER	7	20	120		-	20	8	OLETS MAT TOLETS	1	and the	164
IDAWG	1	+ :	OLETS: VENDING MACHINE	9	20				20	10	OLETS: HANGICAP TIMES	11	1	
10AWG	-	+ :	O'LETS: VENDING MACHINE	11	20	01/16				12	TAS .			1041
1DAWG		6	OLETS GYMOFFICE	13	20					14	96		-	
10AWC	3	+-0	SPARE	15	20	疆				16	PACE	1	1	
-	+		SPARE	17	20					18	Dans	+	1	
-	-	+	SPARE	19	20					20		+		-
	-		GPACE	21.						22	- 3	+1	7	-
-	-		SPACE	-23			_			24		+	+	-
	10			28		_	-		-	28 28		1	+	
480	10	. 1	MAIN BREAKER	T	Allan	100				10		1	1	
BUP	124 650	****	4 WIRE 208Y/120 VOLTS SO AMPS 3 POLES BUS 2007 4C ALAWS THAN 1 COMB BL 2" PAC CO		SURFAC LUGS O	E MI	G			•	TMR SALES & SELECT LTD FONTINGLES CORRECTED FONTINGLES	57 85	+	///

OJEC	T : ST.	JOHN	POLYCLINIC		PANE	L	SU	HE	DUL		PANEL - G			
	-			CGT	CB		LOAD		C.B.	CCI		-	-	CAN
ABLE		(Land 12)	DESCRIPTION	No	RATING	R	Y	8	RATING	No	DESCRIPTION	Oten	POLES	TZAWE
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DAWG	1	1		3	20		(3)		15	4	LTS GYM	1 5		12AWG
10AWG	- 1	1	O'LETS: EQUIPMENT	5	20		6	HG.	15	- 6	LTS WAFTGLETS CORRANCAP	1	21	12AWG
10AWG	1	1	DLETS EQUIPMENT	7	20		REG.		15	-		10	1	12AWG
10AWG	1	1	HAND DRYER	9	20		10		15	10	LTS: EXIT SIGNS			
10AWG	1	1	HAND DRYER	11	20		1 CP	6		12	SPAGE			2017
10AWG	1	1	HAND DRYER	13.		110	114			14	SPACE		-	
	0 000		SPACE	15	20	100	ep.			10	SPACE		-	
10AW	G 1	1	FCU PC 8 (L)	17	20	490	150			18	SPACE		-	-
JOAW	G 1	1	FCU PC U (L)	19	20		153	100		20	SPACE		-	
10AW	1G 1	1	FCU GYM 2 (L)	21	20		(23)			22	SPACE			
1044	via .		FCU GYM 1 (L)	23			150			26		100	1 4	wg
	TE VO	1	SPACE	25			30		50	100000000	MAN BREAKER			
			SPAGE	27		-	-	-	-30	30	TMR SALES & SERVICE LTD FONTABELL	ST. MIC	HAEL	
		DEVE	SPACE	29		1	-	-		NO.	TMR SALES & BERVICE LIN		1	
MA	PLY 3 IN BKR		4 WIRE 208Y/120 VOLTS 50 AMPS 3 POLES 8US 150 4C 4AWG THWIN CASTE IN 21 PVC COI	MPS VOUIT	FLUSH SURFA LUGS (CE M	TG				August 22, 2011 Located in Grin			J

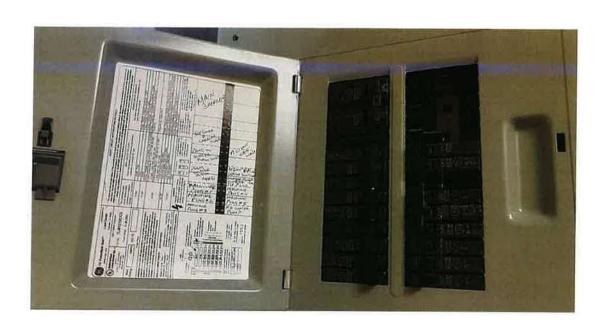
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0,0000		107			cct	C.B.	XIII	LOAD		C.B	CCT		-	
CABLE	VI			The second second	No	RATING	R	Y	8	RATING	No.	DESCRIPTION	+ +	CAB
MM	POL	8 0	Tets	DESCRIPTION	1	20				20	2	O'LETS MALE & FE MALE STAFF	O'lets i	POLES MIN
10AWG		20/10	3	DLETS BLEG & A/C RM & STORAGE	3	20	92 B			20	4	DLETS: FRIDGE - LUNCH RM	2	THE PERSON NAMED IN
TONNO		THE P	5	OLETS CHILDREN STORIES	5	20		1		20		OLETS: LUNCH ROOM		1 10AW
10AWG		1		OLETS: INFORMATION DESK	7	20		701		20		OLETS AV CENTER	-	1 10AW
BOAWG	1 (02)	1		OLETS PHOTO COPIER	9	20			0	20	-	DIETS LISTENNO & DISPLAY		10AVA
104W0		1	1	CLETS PRINTERS	11	20		1	100	20	-	DLETS DISPLAY		IDAVV
TOMMS	0	1	5	OLETS: MAIN LIBRARY	13	20				20	14	WIFE SPACE	2	10AWG
TOAWN	a	O TOP	2	OLETS BONCE STOLY THE	15				-		18	Octo Brace	2	TOAWG
1				TO SPACE IT	117	gia-	-	1		30				7
1	-		1	OUTLET SPACE IT/PANELR	Def 19		-	-	-	30	22	1 0'(613 External		1 10
	-		1	SPACE	21	-	+-	+	-		24	SPACE		10AWG
-	-			SPACE	27	The second	+		1000		26	2 MAGNING	50	
					22	Section 1	1				28	5 7/9	+	
1 44	WG		10 Villa	AND THE AREA	2	-					30	TANK AND		8 NHC
en	PPLY		2000	WIRE 208Y/120 VOLTS SO AMPS 3 POLES BUS 150 AMPS 186 AMPS 189 AMPS 189 AMPS 189 PMC CONOUN		FLUSH SURF LUGS	ACE A	ATG				TMR SALES & SERVICE LTD. FONTABELLE August 22, 2011 Located in Library and fed from panel B vi	a TX-3	MARL



				ССТ	C.B.	1	LOAD		c n	cct		-	- 2	
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IDAWG	1	4		3	20		1000	100	20		OLETS FRINT RM.	5		10
1DAWG	1	6	OLETS: CONST. COUNCIL OFF & WAITING	3	20		100		20		OLETS WELFARE DEFT & WARTINGS	130	-	1 "
10AWG	1	2	O'LETS: MALE & FEMALE TOILETS	7.7	20		1970		20		OLETS WILFARE DEFT & OFFICE	1		10
10AWG	1	2	OLETS: LUNCH RM. W 9 PC !	9	20				20		OLETS HANCICAUTTOLISTS	1	. 1	tas
10AWG	1	1	O'LETS: FRIDGE - LUNCH RM	11	20					17	WARE CHILDREN DESCEN	2	1 1	00
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		10 000	SPACE		FLUS	MIC	173				August 22, 2011 Located in electrical room on known server			1
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1	D'LETS LUNCH RM	1	20	15	2	LIGHTS - SANITOR ISCHE BY, COUNTRY .	5
		3		145	-	LIAMES - CONSTRUCTED CONTE OFFICE	. 5
F 11 5		357		15	6	LIGHTS - LUNCH RM . PMLT RM DAT	
	HAND DAVER		25	15	8	LIGHTS WATTING , WELLERE DEFT	7
-	MAND DEVER	9	70	15	10	LIGHTS - BYIT	THE R.
1		11		15	12		
	-	13		15	14	LIGHTS - DATHS SHEPH-BUT COMPTION	
	-	15		15		LISHTS - NOSO MONT LOTHE, NOONM	-
		П			19		
1	AIL COMP FRANCIS	19	20		20		
		21	20		22	-	
1	AIC MEATHER	23	20		24		
	AIC LOSSY	25			26		
		27			28		
	-		20		30		
	A/C OFFICE	29	20	30	32	{ 1ands	
	AL WOLLENS	31	u	30	34)	
	Me War	33		100	20		
1	1 AM CONCHAM	35	20	100	40	s & manus	
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1800 L	A A IC IT RM on	34	LD				
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construction of the				-	PANI	EL	SC	HE	DUL	E		
ROJEC	T : ST.	HOL	POLYCLINIC								ENABLE INC	
CABLE				CCT	CB		LOAD	159	C.B.	CCT		1
MM	POLES	Olats	DESCRIPTION	No	RATING	R	Y	0	RATING	No	ECRYTON	/(tm/422
10AWG	1	1	D'LETS: LABORATORY	013	20				15	-	LIS FOCATRI DETER LAB I FOR	19
10AWG	1	3	O'LETS: DOCTORS & TREATMENT	3	20				15		LTD BEALLY HIGH DUCTOR	1 1
		1	O'LETS: TREATMENT (DIRTY)	5	20				15		(15 DOCTORS	2/1
1BAWG	1	1	HAND DRYER	7 1	20				15		CTS EMER THEORY LOTTEN	111
10AWG	1	1		9	20				15			
1DAWG	1	1	HAND DRYER	11:1	20	With			15	6A1 E	TS STAFF MARKET TO	100
10AWG	1	1	HAND DRYER	13	20				15	0.100	THE STATE ME IN C.	1/04
10AWG	1	1	HAND DRYER	15	20				15	10	TE STATE ME MONTH DETER	CAND
10AWG	2.0	1	HAND DRYER	17				-	15	-	TA COURSE	1000
TOAVYC	+	1	SPACE /	19	1000		9	-	11	27	WIOMITIC DI	Loan
100	+	+	SPACE	21		3	-	-1	1000	Sell (KIRACEFAN	Y
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BAV				19	20		_	-		1M	R SALES & SERVICE	
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100	110	3		_	CHAIRFACE	2071	1		-	- 00	Del MDP	
104	1		4 WIRE 400230 VOLTS 100 AMPS 3 POLES BUS 200 AMP 100 AMPS 3 POLES BUS 200 AMP	-	LUGS OF	W			_	-	gust 22, 2011 casted on mac to nel MDP	
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10001	N BKR N CABL	_	AL PROPERTY.						-	_		

				CCT	CB		LOAD)	ÇB	Œ			1	10
CABLE		1		No	-	n	1	1	RATING		TEXANIA	Other	POLE	
MM	POLES		DESCRIPTION	-	20	1			167		OUTTO DESTRUCTOR AWAITING	明修定		124
10AWG	1		OLETS LABORATORY	-	30		1		11	4	SOUTH STANFACHED MUNICIPAL		图 图	1224
10AWG	1	2	OLETS LABORATORY	1	20	(H)			11		CLETE COUNTE TOUTH	2	. 1	March Street
The second second	1	2	OLETS MAF TOLETS	17	20	12	2015		15	EC	CONTROL DE DESERVE	7		12419
10AWG	-	-	ON EXE LINEN CORR & WAITING	- 11	20		100		15	12	OUTS CONTROL OF STATE OF	201		PAW
1DAWG	1	5	CATHEREN & PODIATES		29				19		CLI TO THE PART	報題 2		12AWK
10AWG	1	6	OLETS SEXUAL HEALTH & DOCTOR	11	75	125			1816	16	90			TRANS
IDAWG		5	OLETS SEASONS	13	20					11	The NO		-	
		6	OLETS DOCTORS	18	75	3	624		-	20	20			
1DAWG		0	OLETS TREATMENT & WAITING	17	20			-01		5	10		931	
10AVVC		1	LOWER CHERGENCY THE	18	-0	匾		-		i	200			Ille
10AW		+	LOUGHTS ASTHUM BAY	21				4		10	VV2			
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	_		18762	-	FLUSHIA SHARFAC	101	1		15	31	MALES ESSENCE LTD, FONTABELLE and 22 Mer. Company of the Company o		S	Service Service
	_		1000	-	LUOS CE	AY.				4	Too Too		M	
100	_		4 WIRE 200Y/120 VOLTS 50 AMPS 3 POLES BUS 200 AM 5 PLANO THEM 32 PAG CORDAN		Those	100	_							
	STATE OF THE PERSON	-	50 AMOND 3 POLES BUY COMMAN SEPANNO THOMAS SEPANNO	12.00		200								

ROJEC	T:ST.	NHOL	POLYCLINIC	Ų.	PANE	L	SC	HE	DULE		PANEL - MLC1			
CABLE			CCT CB LOAD CB CCT						CABLI					
-	POLES	Olets	DESCRIPTION	No	RATING	H	Y.	В	RATING	No	SESCRIPTION	Ollets	POLES	MM
OWADI	The same		DIETS STAFF NURSE INT & SNR SISTER	1	20				20	2	OLETS SEXUALIEALTH A DOCTORS	3	1	10AW
		1 = 11	SPARE	3	70				20	4	OLETS TREATMENT	4	1	10AW
			SPACE	5					20	6.	OLETS EMERGEICY TREATMENT	3	1	10AW
	-		SPACE	7				U.C.	20	8	SPARE			
			BPACE	9						10	SPACE	Ur V	(E)	
			SPACE	11	4 3					12	SPACE			
				13						14	SPACE			
BANK	1		I MAN BREAKER	15	30	Es.				16	SPACE	alik ii		
			No.	17						18	SPACE		100	
SUPPLY MAIN ER	CR	ASE4 V	AVIRE 2089/120 VOLTS 30 AMPS 3 POLES BUS 100 AMPS 54 BAWG THWN CABLE 94 2 PAG CONDUIT		SURFAC LUGS O	EΜ	rg				TMR SALES & SERVICE LTD, FONTABE August 22, 2011 Located in electrical room on main flo-		MICHAE	L

PROJECT : ST. JOHN POLYCLINIC					PANEL SCHEDULE											
CABLE		Cet	CH	H LOAD			GR LOCK									
MA	POLES	O'lets	DESCRIPTION	740	RATING	340	- Address and		Affinis	OCT.	CESCRATION .		1000	CAIR		
DWARR		- 3	CILETS PERSONNEL	lion.	LX	Ulan			20		DLETS OFFICE FACILITY MANG & CONFER	Chers	POLES	144		
10AWG	1	2	O'LETS PERSONNEL	3	300	Mar.			20	10	DIETS WATERS & MENTAL HEALTH	45	-1	TOAW		
10000	1	2	OLETS: VISITING DOCTOR & COUNSEL		1/20				n		OLD S ASST ASSESSMENT	2	110	TELAVOR		
1100/11/10			SPARE	7	20	10-			28	1	SFARE	2	1	TEAM		
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	-		SPACE	- 11	W.	Marin.				12	SPACE		-	9255		
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1 100			SPACE	16	1					25						
LIPPLY JAIN BK JAIN CA	R	16 4 V	VIRE 208Y/120 VOLTS 30 AMPS 3 POLES BUS 100 AMPS 68 BAWG THAT CABLE IN 2" PUC CONDUIT		FLUSH SURFAL LUGS O	EM	16				THE SALES & SERVICE LTD. FONTABELL August 22, 2011 Located in sentragear room and led from					





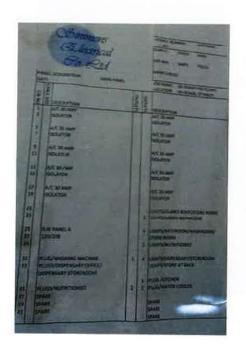
aeron.		31.	NHOL	POLYCLINIC				_				PANEL - M			1001
ABLE	POI	EF	Crusta	DESCRIPTION	CCT No	CB	R	LOAD	а	C.B RATING	GGT No	DESCRIPTION	Otter	POLE	CAB
1000	-	, I	manufacture of	OLETS LOUNGE A LUNCH RM	10	20		8	-	16	-	TTS:) THINGE A LUNCH RM	a	FULL	12AV
TOANT	-			DIETS THERAPY	13	20		-		15	4:1		10	1	1241
104	-	1		OLETS THERAPY	5	20	J. T. J.Y	G.		15	6	LIS OFF FACILITY MAIN & CORR	1 2		1240
106		,		OLETS PAINTRY	7.	20		8		15	0	LIS CONF RM. DOWNLTS	1 6	1	12AW
1	-	,	-	O'LETS: COOLER THERAPY	9	20		0	UT S	15	10	TS COUNSEL MENTAL HEALTH & THER	9	1	12AW
1		1	150	HAND DRYER	11	20		6		15	12 4	TE REMAR THER A ASSESSMENT	40	1	12AWC
10.00	DAW			HAND DRYER	13	1/20		2	ALL	15	14	TS MAF TOILETS & WAITING	10	1	12AW
-	ONAD	1	1	HAND DRYER	15	√20		12		.12	TR	LTS VISITING DOC. COUNSEL & STORE	-7	1	12AWG
-	10875	4	-	HAND DRYER	17	20		a		.15	18 1	LTS PERSONNEL, STORE & PRINT RM	8	1	123300
1	1DAG			HAND DRYER	10	20		3	Service of the last of the las	15	20 5	CTS EXIT SIGNS	5	1	MANO
I	tokio	-	4	HAND DRYER	21	20		0		15	22.	ELECTRONIC DOORS	1	1	IZAWO
	TOARC			HAND DRYER	23	20		G		115	24.7	ELECTRONIC DOORS	1	4	12AWG
1	104/15		+	HANS DAVER ALL	26	20		d		15	2	EN SIANT	12	1	ZAWG
		1	+		27		-	0	32	15	28	LIGHT CORRIDOR	10	DESCRIPTION OF THE PERSON	ZAWG
	SMA	3	1	DUCT HEATER DH - 3M	29	40		6		15	30	EXTRACT FAMS		1 1	DWAS
				-	31			3			32	/SOCATOR SWANIE			1/
	TONY	1	1	ACCU PS (M)	33	20		0			34	ISDLATOR HOLES	130	-	
	TOAIVO	1	1	FGU CON (M)	35	700		Gr			34	SPACE			
-		1		The state of the s	37	1000		0	-		40	MAIN BREAKER		14	WO
-	TOAKS	3	1	AHU (2M)	39	20		15		100	42	SPAIN BREAKEN			
-			033	TOTAL TE		FLUSH	ATO	-	-		1	TMR SALES & SERVICE LTD FONTABELLE	ST. MIC	HAEL	
-	and a	30.80	ALT.			animum.c		a				August 72, 1011	THE REAL PROPERTY.		- 11
M	AIN BK	R		100 AMPS 3 POLES BUS 200 ALL 40 FLAWS THAT WITH EARTH BY FVC		LUGSO	NLY	Ding:	_		-10	ocated on main floor in electrical closet a	nd fed no	9	- 8



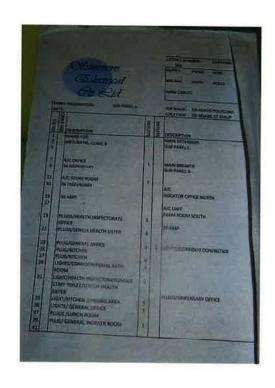


GLE				ССТ	СВ	100	LOAD		0.8	CC.				CAB
Azza	POLES	O'lets	DESCRIPTION	*to.	RATING	P.	Ý	В	RATING	No	DESCRIPTION	0	ets PC	LES MM
DWAD	1	1	O'LE IS LOUNGE & LUNCH RM	X	20		J		16	2	LTS: LOUNGE & LUNCH RM.		9	1 12AV
DIVADI	1	1	O'LETS THERAPY	3	20		1		15	4	LTS: SICK BAY & TOILETS	- 1	0	12AM
DWADE	1	1	CRETS: THERAPY	5 -	20		6		15	0	LES OFF, FACILITY MAIN & CORR.	17		IZAW
10/0//6		2	CLETS PRINT NIA	7 -	20		\mathcal{H}		15	В	LIS CONFRM DOWN LTS	A.	1	12AW
10AWG	1	1	CLETS COOLER THERAPY	0	20		0		15	103	LTS COUNSEL MENTAL HEALTH & THER	5	1	12AWC
10AWG	-	1	HAND DRYER	11	20		6		15	12	LTS REHAB THER & ASSESSMENT	0	1	12AWG
10AV/C		1	HAND DRYER	13	1/20	4,	4		15	14	LTS MAFTOILETS & WAITING	10	1	12AWG
10AW	-	1 .	HAND DRYER	15	√2n		0	- 7	15	18	U.S. VISITING DOC. COUNSEL & STORE	7	1	12AWG
	-	1	HAND DRYER	17	-20		0		1.5	18	LTS PERSONNEL, STORE & PRINT RM.	3	1	12AWG
10AW	-	+:	HAND DRYER	16	20		3.		15	20	4CTE EXIT SIGNS	5	1	17AWG
10AW		+	HAND DRYER	21	20		0		16	221	ELECTRONIC DOORS	1	1	12AWG
WARP	-	-	CALIFORNIER	23	20		G	1-1	.15		ELECTRONIC DOORS	1	1	12AWG
10AV	-		PAND DIVER ALC	25	20		it		15	*	Control of the Contro	12		12AWG
1000	MO 1	1	THE RESERVE TO SERVE THE PARTY OF THE PARTY	21			0	3.00	-15	20	LABORATERNAL CORRIDOR	10	1	12AWG
-	(de	3	DUCT HEATER DH - 3M	20	40		6		10	30	EXTRACT FANS		1	TEAWG
BAV	NG			31			d	200		32	ISOURIOR STATE CLUBICAL			
-		1	1 ACCU-PS (M)	33	20	1	10			34	ISOLAZOR - C HEATON		_	
The state of	WG	2	1) FOU CON IM	37	20		9	denil.	-	36	SPACE	1 2		
10/	AUUCE	-	AHU (3M)	39	20		0		100	40	MAIN BREAKER		3	DWAL
F	-	3	1	41			6			47	HOUR ENGLANDS		3	IAVAG
SU	PPLY 3	PHAS	E 4 WIRE A00/230 VOLTS 100 AMPS 3 POLES BUS 200 AM 40 MAN/75 THINK WITH EARTH IN 2" PVC	PS	FLUSH SURFA LUGS C	CE M	ta			THE R	TMR SALES & SERVICE LTD. FONTABELLE August 22, 2011 Located on main floor in electrical closet at			

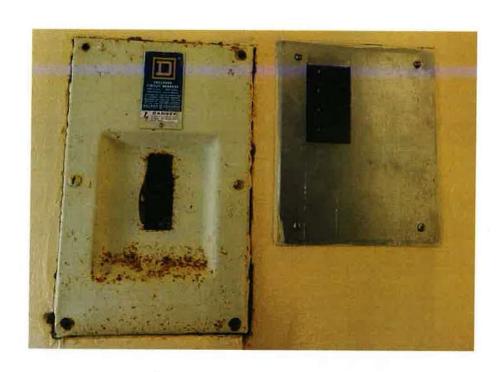
Appendix VII - St. Philip Polyclinic Electrical Panel Photograph

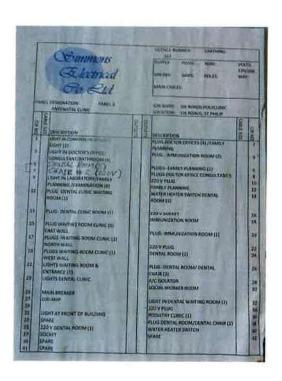








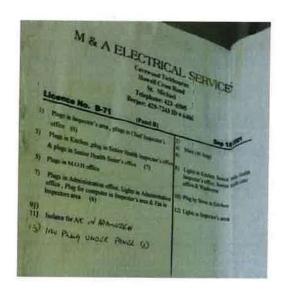




A CONTRACTOR	Ostleta
2	Companies phage - was 111 live
12	Compare place and (1) or people are and (as (2) spec
1	Compare plays one (1) in plantacopy room and date (2) separe. Ultim their contain. Compare play in upon office flow contain. Compare play in upon office flow contain.
	Company plays or spen office from color
-	Designation of the second second
	Compare plays and (1) to spen office (new color) Analysis of Children and Children (2) to Spenial Onton one (1) to Plantage property.
i	One of the season of the control of the season of the seas
	Owlets one (1) in Photocopy Roses and Sea (4) in Open Colors Outlets one (1) in Photocopy Roses and Sea (4) in Open Colors Outlets one (1) in the
79	Digital and the Control of the Contr
	Ocaleta congress of the Commercial Conference
H	Ordice (onc(1) in Open Office and (out (4) in Special Association (1) in Open Office (1) in Special Association (1) in Special As
6	Plays Directly to Open Office most wall
10	Outlets there () in Open Office met wall Outlet there () in Open Office and wall
11	Outlet cos (1) Office Clerk Rosen
12	Company plans - has (2) (4)
13	Charlest - sinc (1) in Office Control Office much had
14	Syntal one () (Office Code Room and wall Comparing plans (2) in (2) in (Special Code and a political Code and (3) in (Special Code and a political Code (3) in (Special Code and wall Code and (3) in (3) in (3) in (3) in (3) in (4) in (3) in (4) in
15	
16	Computer plags - Proc CV in Ch
17	Company phase they Over the Alice from plan
1 N	Comparing plans. Done Office mean. and small comparing plans (Comparing plans). Done Office financing plans (Comparing plans). Done Office financing plans. Done (2) in Open Office med small Comparing plans. Done (2) in Open Office med small Comparing plans. Done (3) in Open Office med small Comparing plans. Done (3) in Open Office med small Comparing plans. Done (3) in Open Office med small Comparing plans.
19	Company plays - three (2) in Open Office may will Space
20	The party of the p
21	None
22	Spare
21	Lights they Com Open Office unling
24***	Lights there (3) in Open Office serling
B	rentroom, and one (1) in street area.
10 ***	
	Lights wat (1sta
7	Lights out (1) in many surround, four (4) Other Chief spring, in
9	Lights fruit (4) in Court Cittle
Martin Comment	Lights 1841 (2) in Company Record on 17) in Paragraph Record critical tract (2) in Paragraph Record Anagement of the 17) in Paragraph Anagement of the 18 (18) in Paragraph of Anagement of
	Remarked transfer of the Contract of the Contr
10.	Design to kink horse, your (2) in promps to office, see (11)in
0	Lights from the
1	A Party of the Par
	Lights - two (2) he made before two (2) in particular college, you (2) moder kinden explose two (2) in particular services (1) his particular services
	Theo (2) on proceedings are: (1) in total opposes the house and on
2 6 11	
	Mains to A2 yourt

Breaker No.	Outlets
2-3	Breaker - spare
4-5	Outlet - A/C instance
6-7	Critica A/C isolator
8-9	Outlet - A/C isolator
10-11	Outlet - A/C isolator
12-13	Outlet - A/C isolator
14-15	Outlet - A/C isolator
16-17	Outlet - A/C isolator
18-19	Outlet - A/C isolator
20	Outlet - A/C isolator
	Plugs - one computer plug in CEUO acc.
11	
2	Plugs - one in kitchen for fridge
3	Outlets - three (3) in SEHO and
4	
	Utiliets - one in Ones Office
5	SEHO Office and one (1) in passageway to Toilet
	Outlets - two (2) in Clerk's Office and three (3) in PEHO Office
6-27	Contract of the Contract and three (3) in PEHO Office

Appendix VIII - Eunice Gibson Polyclinic Electrical Panel Photographs

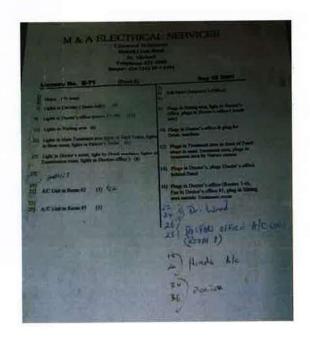




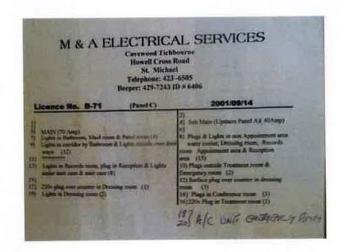










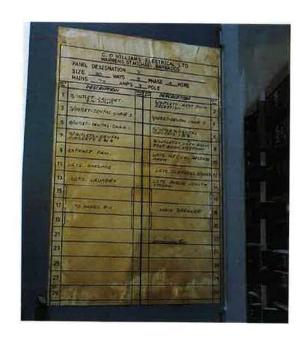






Appendix IX - Winston Scott Polyclinic Electrical Panel Photographs







Circuit Type CPD Size Cable Size AWG 15 Control Controller 15 Control Battery Charger Generator 15 Evaporator #1 Motor 14 B 10 15 Door Light and Heater Light Evaporator #1 11 13 15 Motor 15 Chiller Condenser 12 12 Motor Alarm 14 15 15 Control 12 Chiller Condenser 15 Motor



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