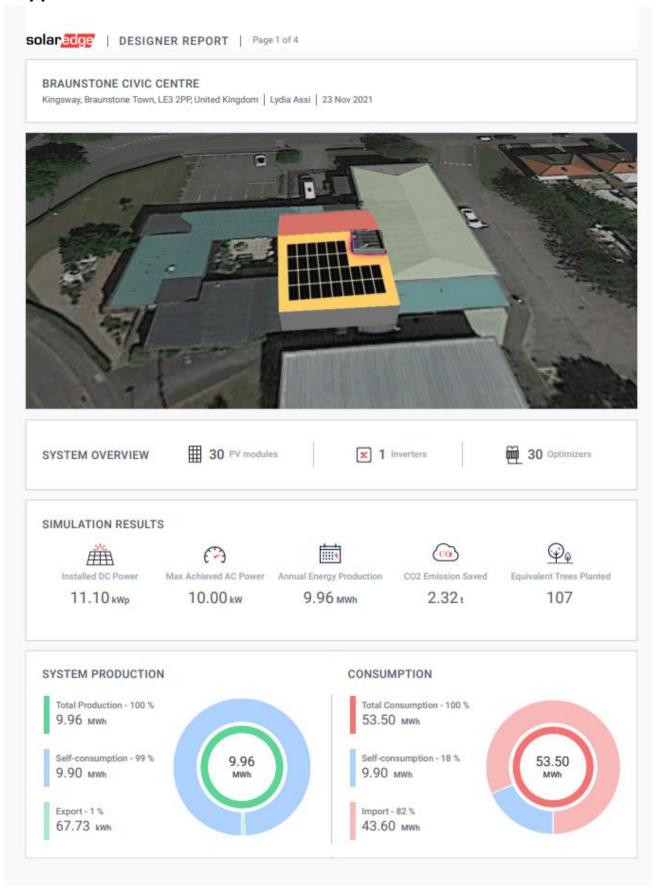
Appendix 1a: Solar PV installation at Braunstone Civic Centre



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BRAUNSTONE CIVIC CENTRE

Kingsway, Braunstone Town, LE3 2PP, United Kingdom | Lydia Assi | 23 Nov 2021



Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
30	REC Solar AS, REC 370 TP4 (TwinPeak 4 Blackframe)	11.1 kWp	_		174*	10°
otal: 30		11.1 kWp				

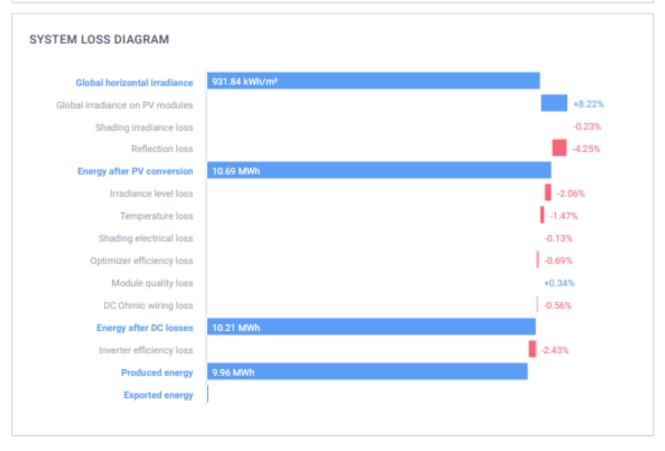
	Avg. Monthly	1	
Current Monthly Bill	Monthly Bill with SolarEdge	Net Bill Monthly Savings	Bill Offset
£ 615.78	£ 498.24	£ 117.54	19.09 %
	Estimated Net Lifetime Bill Savings £ 34	1,030	

BRAUNSTONE CIVIC CENTRE

Kingsway, Braunstone Town, LE3 2PP, United Kingdom | Lydia Assi | 23 Nov 2021

BILL OF MATERIALS (BOM)		
tems	Quantity	
	1	
P401	30	
REC 370 TP4 (TwinPeak 4 Blackframe)	30	

nverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 x SE10K 10.42kW 104%	ſſ 1 x string	₩ 30 x P401	■ 30



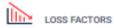
BRAUNSTONE CIVIC CENTRE

Kingsway, Braunstone Town, LE3 2PP, United Kingdom | Lydia Assi | 23 Nov 2021

SIMULATION PARAMETERS



Time zone	GMT (London)
Weather station	Leicester (6.97 km away)
Station altitude	86 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N



Near shading	Enabled
Albedo	0.20
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%

Appendix 1b: Solar PV installation at Thorpe Astley Community Centre



THORPE ASTLEY COMMUNITY CENTRE

Marshall Close 33, Braunstone Town, LE3 3RQ, United Kingdom | Lydia Assi | 23 Nov 2021

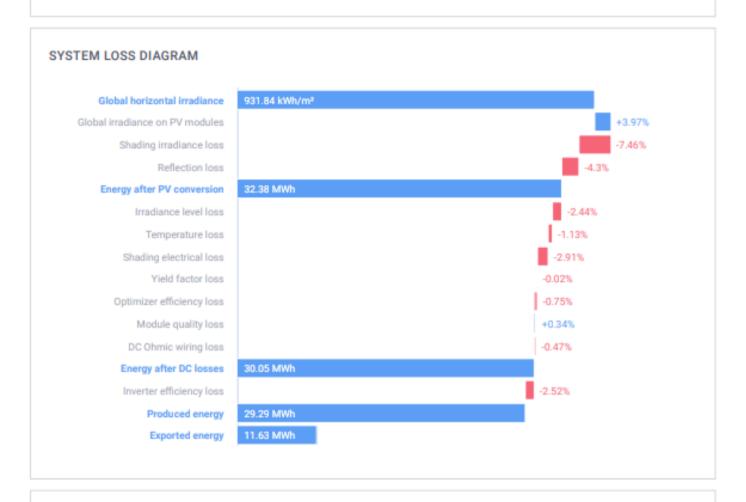


PV MODUL	ES					
# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
102	REC Solar AS, REC 370 TP4 (TwinPeak 4 Blackframe)	37.7 kWp			158°	5°
Total: 102		37.7 kWp				

	Avg. Monthly	1	
Current Monthly Bill	Monthly Bill with SolarEdge	Net Bill Monthly Savings	Bill Offset
£ 385.59	£ 129.45	£ 256.14	66.43 %
	Estimated Net Lifetime Bill Savings £ 64	4,758	
	Estimated Net Lifetime Bill Savings £ 64	1,758	

THORPE ASTLEY COMMUNITY CENTRE

Marshall Close 33, Braunstone Town, LE3 3RQ, United Kingdom | Lydia Assi | 23 Nov 2021



SIMULATION PARAMETERS



Time zone	GMT (London)
Weather station	Leicester (8.17 km away)
Station altitude	86 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N

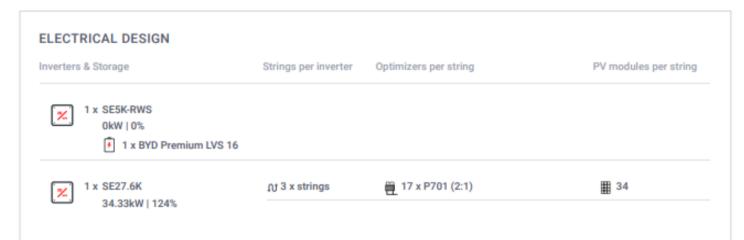
LOSS FACTORS

Near shading	Enabled	
Albedo	0.20	
Soiling/Snow	0%	
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05	
Thermal loss factor Uc (const) Flush mount	20	
Thermal loss factor Uc (const) Tilted	29	
LID loss factor	0%	
System unavailability	0%	

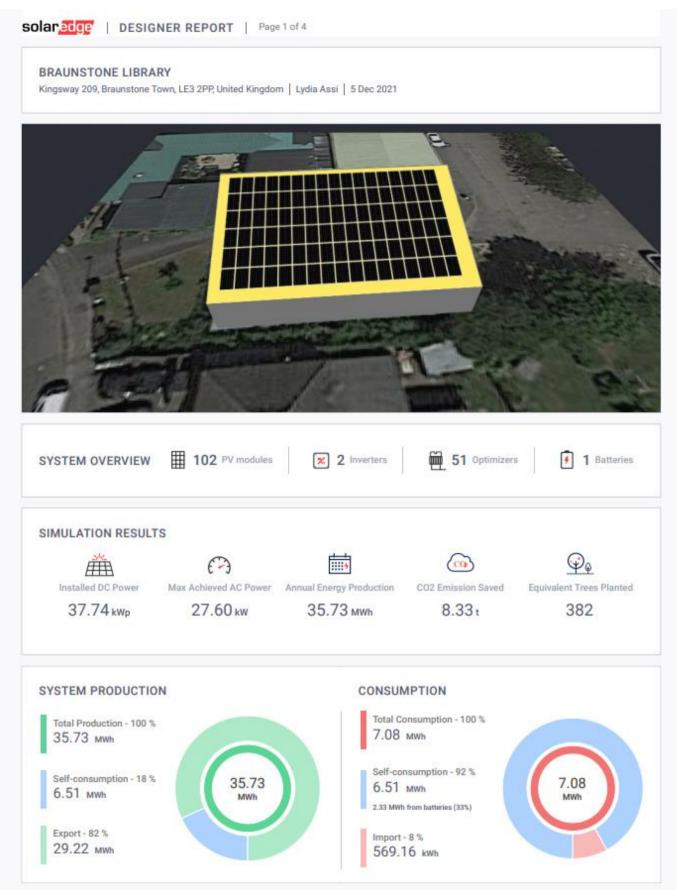
THORPE ASTLEY COMMUNITY CENTRE

Marshall Close 33, Braunstone Town, LE3 3RQ, United Kingdom | Lydia Assi | 23 Nov 2021

ems	Quantity	
■ SE5K-RWS	1	
≭ SE27.6K	1	
P701	51	
BYD Premium LVS 16	1	
REC 370 TP4 (TwinPeak 4 Blackframe)	102	

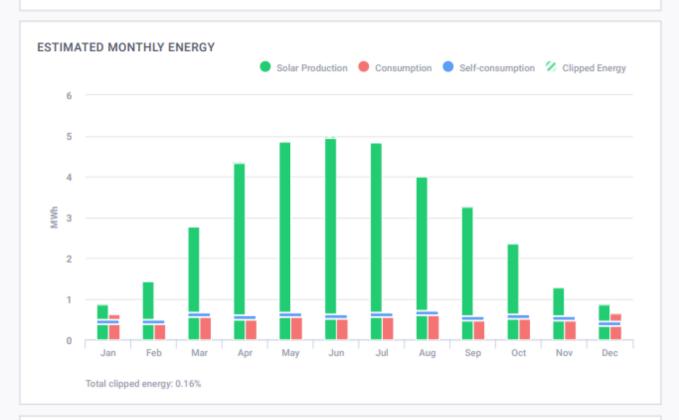


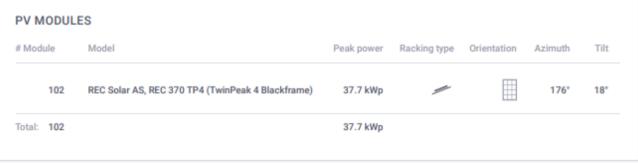
Appendix 1c: Solar PV Installation at the Library



BRAUNSTONE LIBRARY

Kingsway 209, Braunstone Town, LE3 2PP, United Kingdom | Lydia Assi | 5 Dec 2021





ESTIMATED BILL SAVINGS YEAR 1 Annual Current Annual Bill Annual Bill with SolarEdge Net Bill Annual Savings Bill Offset £ 1,062.30 £-1,667.88 £ 2,730.18 257.01 % Estimated Net Lifetime Bill Savings £ 52,013 Utility Provider: Commercial Utility Rate: Commercial DAY only (0.15 £/kWh)



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BRAUNSTONE LIBRARY

BYD Premium LVS 12

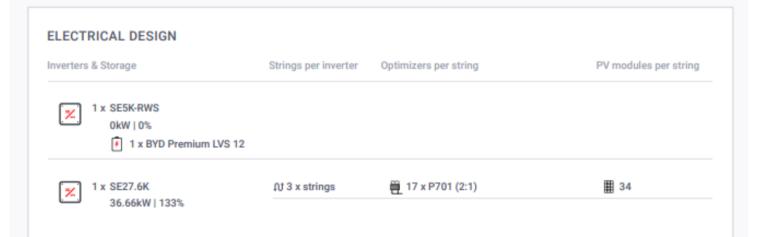
REC 370 TP4 (TwinPeak 4 Blackframe)

Kingsway 209, Braunstone Town, LE3 2PP, United Kingdom | Lydia Assi | 5 Dec 2021

BILL OF MATERIALS (BOM) Items Quantity ▼ SE5K-RWS 1 ▼ SE27.6K 1 P701 51

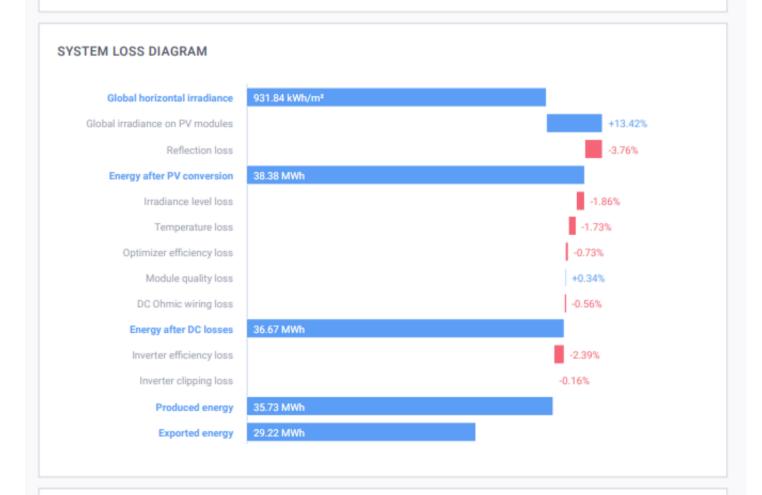
1

102



BRAUNSTONE LIBRARY

Kingsway 209, Braunstone Town, LE3 2PP, United Kingdom | Lydia Assi | 5 Dec 2021



SIMULATION PARAMETERS



Time zone	GMT (London)
Weather station	Leicester (6.96 km away)
Station altitude	86 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N



LOSS FACTORS

Near shading	Enabled
Albedo	0.20
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%

Appendix 1d: Solar PV Installation at Mossdale Meadow Depot



MOSSDALE MEADOWS

Lubbesthorpe Way, Leicester, LE19 1JZ, United Kingdom | Lydia Assi | 5 Dec 2021



# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
32	REC Solar AS, REC 370 TP4 (TwinPeak 4 Blackframe)	11.8 kWp	_		288°	27°
32	REC Solar AS, REC 370 TP4 (TwinPeak 4 Blackframe)	11.8 kWp	_		108°	27°
Total: 64		23.7 kWp				

MOSSDALE MEADOWS

Lubbesthorpe Way, Leicester, LE19 1JZ, United Kingdom | Lydia Assi | 5 Dec 2021

ESTIMATED BILL SAVINGS YEAR 1

Annual

Current Annual Bill

Annual Bill with SolarEdge

Net Bill Annual Savings

Bill Offset

£ 2,116.97

£ 193.49

£ 1,923.48

90.86 %

Estimated Net Lifetime Bill Savings £ 40,273

Utility Provider: Generic Commercial Utility Rate: Day and Night Rate

BILL OF MATERIALS (BOM)

Quantity
1
1
32
1
64

ELECTRICAL DESIGN

Inverters & Storage

Strings per inverter

Optimizers per string

PV modules per string

1 x SE5K-RWS

0kW | 0%

1 x BYD Premium LVS 12



1 x SE16K

18.84kW | 118%

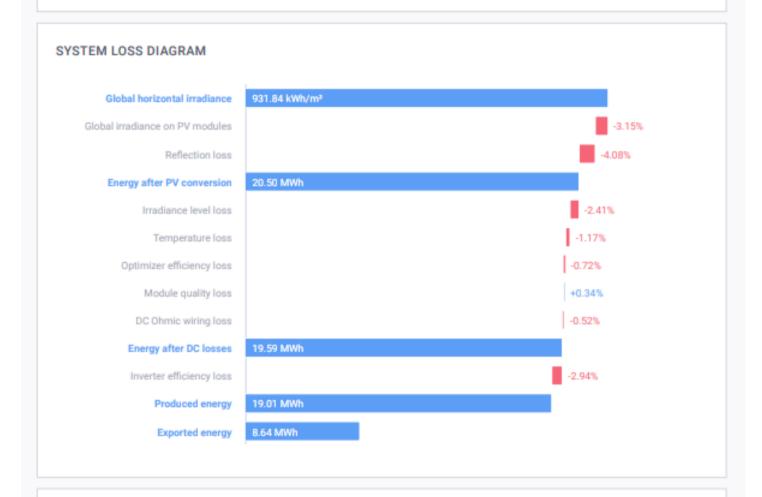
↑ 2 x strings

16 x P701 (2:1)

32

MOSSDALE MEADOWS

Lubbesthorpe Way, Leicester, LE19 1JZ, United Kingdom | Lydia Assi | 5 Dec 2021



SIMULATION PARAMETERS



Time zone	GMT (London)
Weather station	Leicester (7.21 km away)
Station altitude	86 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N

LOSS FACTORS

Near shading	Enabled
Albedo	0.20
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%