Renewable Energy Pathway

Engineering the power of the sun to work for you

Dynamic Renewable ENERGY SOLUTIONS

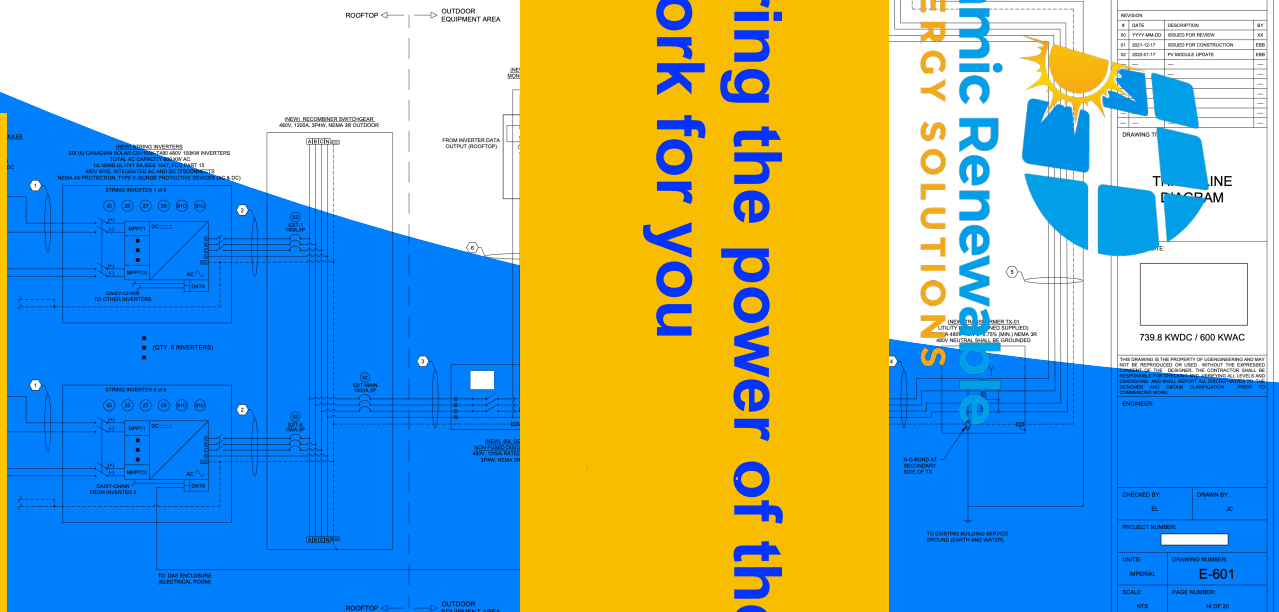
SYSTEM SUMMARY TABLE	
SYSTEM SIZE (DC):	739.8 kW
SYSTEM SIZE (AC):	600 kW
MODULE MODEL:	TD672M-450
(#) OF MODULES:	1,644
(#) MODULES PER STRING:	16-18
INVERTER MODEL:	CSI-100K-T480GL02-U
(#) OF INVERTERS:	6
(#) OF STRINGS PER INVERTER:	16

PV MODULE SPECIFICATIONS	
MAKE	TALESUN
MODEL	TD672M-450
STC POWER (W)	450
MAX SERIES FUSE RATING (A)	25
OPEN CIRCUIT VOLTAGE (VOC)	49.5
MAX POWER VOLTAGE (VMP)	41.2
SHORT CIRCUIT CURRENT (ISC)	11.52
MAX STC CURRENT (IMP)	10.93
TEMPERATURE COEFFICIENT (%VOC / DEG C)	-0.26
TEMPERATURE COEFFICIENT (%PMAX / DEG C)	-0.36
MODULE NOCT RATING (°C @20°C AMBIENT)	43

RAPID SHUTDOWN DEVICE SPECIFICATIONS	
MAKE / MODEL	TIGO TS4-A-2F
MAXIMUM CURRENT (PER INPUT) (A)	15A
VOLTAGE RANGE (PER INPUT) (V)	16-80
OUTPUT OPERATING VOLTAGE RANGE (V)	160V (80V PER INPUT)
MAXIMUM POWER (TOTAL) (W)	1000
COMMUNICATION TYPE	PLC
(#) OF RSD:	1,644

INVERTER SPECIFICATIONS	
MAKE	
MODEL	CS
POWER RATING (KW)	
MAX OUTPUT CURRENT (A)	
NUMBER OF MPPT CHANNELS PER INVERTER	
NUMBER OF STRINGS PER MPPT CHANNEL	
AC OPERATING VOLTAGE (V)	
PHASE (1 OR 3)	
NEUTRAL (Y OR N)	
DC MIN MPPT OPERATING VOLTAGE	
DC MAX MPPT OPERATING VOLTAGE	
MAXIMUM EFFICIENCY	

ANSI LEGEND	
DEVICE ID	DESCRIPTION
25	SYNCHRONISM CHECK
27	UNDERVOLTAGE
50	INSTANTANEOUS OVERCURRENT
51	AC TIME OVERCURRENT
52	AC CIRCUIT BREAKER
59	OVERVOLTAGE
59G	OVERVOLTAGE GENERATOR
81O	OVER-FREQUENCY
81U	UNDER-FREQUENCY
89L	LINE SWITCH
ID	ISLANDING DETECTION



REVISION			
#	DATE	DESCRIPTION	BY
00	YYYY-MM-DD	ISSUED FOR REVIEW	XX
01	2021-12-17	ISSUED FOR CONSTRUCTION	EBB
02	2022-01-17	PV MODULE UPDATE	EBB

DRAWING TI... LINE DIAGRAM

SITE:

739.8 KWDC / 600 KWAC

ENGINEER:

CHECKED BY:	DRAWN BY:
EL	JC

PROJECT NUMBER:

UNITS:	DRAWING NUMBER:
IMPERIAL	E-601
SCALE:	PAGE NUMBER:
NTS	14 OF 20

Serete Henery

Senior Electrical Power Engineer

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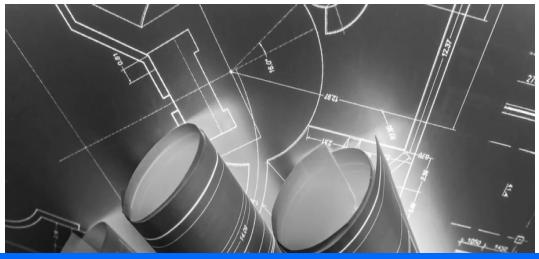

Seretse Henry is the Managing Director of Dynamic Renewable Energy Solutions (DRES) an emerging company that focuses on Consulting, Designing and Procurement of renewable energy systems. He has 25 years of experience in the renewable energy sector with a proven track record of successfully delivering projects that contribute to a sustainable future. His technical expertise and managing skills gives him a deep understanding of renewable energy technology, National Electric Codes (NEC) USA, and market dynamics.

Seretse has a Bachelor of Science in Electrical Engineering and a Master of Science in Power Engineering from New York University (NYU). He is a certified member of the North American Board of Certified Energy Practitioners (NABCEP) professional solar installer. Throughout his career, Seretse has spearheaded various renewable energy projects, ranging from installation of Electrical Vehicle (EV) charging stations (light, medium and heavy duty vehicles), Solar and Wind farms, Battery Energy Storage Systems (BESS) and Grid integration solutions. He has a keen eye for identifying opportunities for innovation and optimization, resulting in cost-effective and sustainable project outcomes. Seretse is adept at managing stakeholders expectations and fostering strong relationships with clients, suppliers, and regulatory bodies.

Beyond his professional achievements, Seretse's he enjoys spending time with his family, playing basketball, golfing, and fishing.

WHAT WE DO

We create diagrams and other documentation for solar projects, review project plans, and ensure safety procedures are in place for installation and maintenance

Develop specifications for any purchased components working together with SC Purchasing

Ensure timely resolution of supplier failure, corrective actions and preventive actions

American solar market research, including the market analysis, solar industry trends, PV technologies trends, opportunities, and customer pain points, and
Planning the new products for American market

High level technical support for the American sales team

Technical advisory services to clients
Owner's engineering (construction supervision and design review)

Lender's engineering (technical due diligence)