MEADOW CREEK SOLAR FARM DETAIL SITE PLAN





PROJECT

MEADOW CREEK SOLAR FARM

1033 OXLEY-MEADOW CREEK RD, MEADOW CREEK VICTORIA, AUSTRALIA

Level 10, 477 Collins Street | Melbourne VIC 3000 AUSTRALIA | +61 3 8663 4888 | URBIS Ltd | ABN 50 105 256 228

ADVERTISED PLAN

GENERAL NOTES

DESIGN IS CONCEPT ONLY. NOT FOR CONSTRUCTION. CONCEPT DESIGN WILL COMPLY WITH THE CFA DESIGN GUIDELINES AND MODEL REQUIREMENTS RENEWABLE ENERGY FACILITIES V4 (2023).

OPERATION OF THE FACILITY TO ENSURE ADHERENCE TO FIRE DANGER PERIODS, HIGH FIRE DANGER AND TOTAL FIRE BAN DAYS.

4. BESS & PV SYSTEM AND ASSOCIATED EQUIPMENT SHALL HAVE SET-BACK FROM SECURITY FENCE OF MINIMUM 10M.

BESS LAYOUT AND DESIGN

REFER TO MEADOW CREEK SOLAR FARM BESS GENERAL ARRANGEMENT DRAWING SOLAR PANEL BANK LAYOUT AND DESIGN

6. ACCESS OF A MINIMUM SIX (6) METRE SEPARATION BETWEEN SOLAR PANEL BANKS AS PER CFA GUIDELINES.

UNBROKEN SOLAR PANEL BANK AREAS TO BE UNDER 25HA AS PER CFA GUIDELINES.

8. PV MODULES TO INCLUDE ANTI-REFLECTIVE COATING (AR); LOWIRON/HIGH TRANSMISSION (LFE/HT) PV GLASS OR EQUIVALENT; AND ANODISED PV FRAMES OR EQUIVALENT.

9. SOLAR PANEL BANK AREAS TO HAVE GRASS/VEGETATION MAINTAINED TO 100MM UNDER THE ARRAY INSTALLATION OR NON-COMBUSTIBLE MULCH SUCH AS STONE. VEGETATION MANAGEMENT CAN BE ACHIEVED THROUGH GRAZED PADDOCKS. 10. NO EXTERNAL LIGHTING IS PROPOSED.

FIRE BREAKS

11. DESIGN ADHERES TO CFA REQUIREMENTS FOR FIRE BREAKS. FIRE BREAKS TO BE ESTABLISHED AND MAINTAINED IN LINE WITH THE FOLLOWING:

AROUND THE PERIMETER OF THE FACILITY, COMMENCING FROM THE BOUNDARY OF THE FACILITY OR FROM THE VEGETATION SCREENING INSIDE THE PROPERTY BOUNDARY.

b. AROUND THE PERIMETER OF CONTROL ROOMS, ELECTRICITY COMPOUNDS, SUBSTATIONS AND ALL OTHER BUILDINGS ON-SITE.

BE A MINIMUM OF 10M, AND AT LEAST THE DISTANCE WHERE RADIANT HEAT FLUX (OUTPUT) FROM THE VEGETATION DOES NOT CREATE THE POTENTIAL FOR IGNITION OF ON-SITE INFRASTRUCTURE.

FIRE BREAK TO BE VEGETATION FREE AT ALL TIMES AND TO BE NON-COMBUSTIBLE, CONSTRUCTED USING EITHER MINERAL EARTH OR NON-COMBUSTIBLE MULCH SUCH AS CRUSHED ROCK.

FIRE BREAK TO BE FREE OF OBSTRUCTIONS AT ALL TIMES. NO PLANT OR EQUIPMENT OF ANY KIND IS TO BE STORED IN FIRE BREAKS.

VEGETATION MANAGEMENT AND LANDSCAPING

21. THERE IS TO BE NO LONG GRASS OR LEAF LITTER IN AREAS WHERE PLANT AND HEAVY EQUIPMENT WILL BE WORKING.

22. SOLAR PANEL BANKS ARE TO HAVE GRASS/VEGETATION MAINTAINED TO 100MM UNDER THE ARRAY INSTALLATION OR NON-COMBUSTIBLE MULCH SUCH AS STONE. VEGETATION MANAGEMENT CAN BE ACHIEVED THROUGH GRAZED PADDOCKS. 23. GRASS TO BE MAINTAINED BELOW 100 MM IN HEIGHT DURING DECLARED FIRE DANGER PERIODS.

EMERGENCY SERVICE ACCESS

24. ACCESS ROADS ARE TO BE OF ALL-WEATHER CONSTRUCTION AND CAPABLE OF ACCOMMODATING A VEHICLE OF 15 TONNES. ACCESS ROADS TO COMPLY WITH CFA **REQUIREMENTS & PLANNING PERMIT.**

25. CONSTRUCTED ROADS TO BE A MINIMUM OF 4M IN WIDTH WITH A 4M VERTICAL CLEARANCE FOR THE WIDTH OF THE FORMED ROADS.

26. PASSING BAYS TO BE INCORPORATED EVERY 600M AND AT LEAST 20M IN LENGTH, WITH A MINIMUM OF 6M IN WIDTH. WHERE ROADS ARE LESS THAN 600M LONG, AT LEAST ONE PASSING BAY IS TO BE INCORPORATED.

27. THE AVERAGE GRADE MUST BE NO MORE THAN 1 IN 7 (14.4% OR 8.1°) WITH A MAXIMUM OF NO MORE THAN 1 IN 5 (20% OR 11.3°) FOR NO MORE THAN 50M.

28. DIPS IN THE ROAD MUST HAVE NO MORE THAN 1 IN 8 (12.5% OR 7.1°) ENTRY AND EXIT ANGLE.

29. ACCESS ROADS AND HARDSTANDS TO BE KEPT CLEAR AT ALL TIMES.

14.08.2024

25.03.2024

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PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE

ALL DRAWINGS ARE DESIGNED TO

BE PRINTED AND READ IN COLOUR

IT IS THE CONTRACTORS' RESPONSIBILITY TO

REV DESCRIPTION

FOR REVIEW - DRAFT

FOR REVIEW

FOR REVIEW

FOR REVIEW

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FOR REVIEW

AF JM 28.02.2024

AF JM 29.08.2024

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AF JM

DWN CHK DATE PROJECT DIRECTOR: JON MILLS

FENCING

PLANNING PERMIT.

INSIDE THE SITE.

WATER SUPPLY

HYDRANT OUTLET.

WITHIN 24 HOURS.

FIRE AUTHORITY.

AREA.

CAR PARKING

TIMES.

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30. BLACK PVC COATED CHAIN WIRE SECURITY FENCING TO BE 2.2M WITH 300MM OF BARBED (OR EQUIVALENT WIRE) FOR A TOTAL MAXIMUM HEIGHT OF 2.5M, IN ACCORDANCE WITH

31. GATES TO BE INSTALLED AT APPROPRIATE INTERVALS TO ALLOW ACCESS FOR LANDSCAPING MAINTENANCE ACTIVITIES

32. FOR THIS FACILITY, WITH A BATTERY ENERGY STORAGE SYSTEM AND WITH NO RETICULATED WATER AVAILABLE, THE FIRE PROTECTION SYSTEM MUST INCLUDE A FIRE WATER SUPPLY IN

STATIC WATER STORAGE TANKS, WHERE THE STATIC WATER TANKS ARE TO (SIGNAGE TO COMPLY WITH CFA GUIDELINES):

a. COMPLY WITH AS 2419.1. AUSTRALIAN STANDARD FIRE

HYDRANT INSTALLATIONS.

SHALL BE OF NOT LESS THAN 288,000L EFFECTIVE CAPACITY, OR AS PER THE PROVISIONS FOR OPEN YARD

PROTECTION OF AS 2419.1-2005 FLOWING FOR A PERIOD OF NO

LESS THAN FOUR HOURS AT 20L/S, WHICHEVER IS THE GREATER. c. THE QUANTITY OF STATIC FIRE WATER STORAGE IS TO BE

CALCULATED FROM THE NUMBER OF HYDRANTS REQUIRED TO FLOW FROM AS 2419.1-2005, TABLE 3.3.

d. FIRE HYDRANTS MUST BE PROVIDED AND LOCATED SO THAT EVERY PART OF THE BATTERY ENERGY STORAGE SYSTEM IS WITHIN REACH OF A 10M HOSE STREAM ISSUING FROM A NOZZLE AT THE END OF A 60M LENGTH OF HOSE CONNECTED TO A FIRE

e. THE FIRE WATER SUPPLY MUST BE LOCATED AT VEHICLE ENTRANCES TO THE FACILITY, AT LEAST 10M FROM ANY INFRASTRUCTURE (ELECTRICAL SUBSTATIONS, INVERTERS, BATTERY ENERGY STORAGE SYSTEMS, BUILDINGS).

THE FIRE WATER SUPPLY MUST BE REASONABLY ADJACENT TO THE BATTERY ENERGY STORAGE SYSTEM AND SHALL BE ACCESSIBLE WITHOUT UNDUE DANGER IN AN EMERGENCY. (E.G. FIRE WATER TANKS ARE TO BE LOCATED CLOSER TO THE SITE

ENTRANCE THAN THE BATTERY ENERGY STORAGE SYSTEM. STATIC WATER TANK SHALL BE AN ABOVE-GROUND WATER TANK CONSTRUCTED OF CONCRETE OR STEEL.

h. THE STATIC WATER STORAGE TANK(S) MUST BE CAPABLE OF BEING COMPLETELY REFILLED AUTOMATICALLY OR MANUALLY

HARDSTAND AND ACCESS ROAD TO BE KEPT CLEAR AT ALL

THE HARD-SUCTION POINT MUST BE PROVIDED, WITH A 150MM FULL BORE ISOLATION VALVE EQUIPPED WITH A STORZ CONNECTION, SIZED TO COMPLY WITH THE REQUIRED SUCTION HYDRAULIC PERFORMANCE. ADAPTERS THAT MAY BE REQUIRED TO MATCH THE CONNECTION ARE 125MM, 100MM, 90MM, 75MM, 65MM STORZ TREE ADAPTERS WITH A MATCHING BLANK END CAP TO BE PROVIDED.

k. THE HARD SUCTION POINT MUST BE POSITIONED WITHIN FOUR (4) METRES TO A HARDSTAND AREA AND PROVIDE A CLEAR ACCESS FOR EMERGENCY SERVICES PERSONNEL.

ALL-WEATHER ROAD ACCESS AND HARDSTAND SHALL BE PROVIDED TO THE HARD-SUCTION POINT. THE HARDSTAND SHALL BE MAINTAINED TO A MINIMUM OF 15 TONNES GVM, 8M LONG AND 6M WIDE OR TO THE SATISFACTION OF THE RELEVANT

m. THE HARD-SUCTION POINT MUST BE PROTECTED FROM MECHANICAL DAMAGE WHERE NECESSARY.

n. AN EXTERNAL WATER LEVEL INDICATOR MUST BE PROVIDED TO THE TANK AND BE VISIBLE FROM THE HARDSTAND

33. A CAR PARKING AREA IS LOCATED WITHIN PROXIMITY TO THE ENTRANCE TO THE SITE WITH A TOTAL CAPACITY OF SEVEN (7) VEHICLES. DIMENSIONS TO BE CONFIRMED WITH ROAD DESIGNER TO BE IN ACCORDANCE WITH CAR PARKING DESIGN GUIDELINES CLAUSE 52.06.

SITE AREA (h SOLAR FAR SOLAR PV DC CAF SOLAR PV AC CAF INVERTER NAME / C TOTAL QUANTITY INVERTERS	na) M	566.1 ha
SOLAR FAR SOLAR PV DC CAF SOLAR PV AC CAF INVERTER NAME / C TOTAL QUANTITY INVERTERS	Μ	
SOLAR PV DC CAF SOLAR PV AC CAF INVERTER NAME / C TOTAL QUANTITY INVERTERS		
SOLAR PV AC CAP INVERTER NAME / C TOTAL QUANTITY INVERTERS		332 MWp
INVERTER NAME / C TOTAL QUANTITY INVERTERS	PACITY	285.60 MVA
TOTAL QUANTITY INVERTERS	APACITY	SMA SC4200-UP / 4 2 MVA
INVERTERS	SOLAR	68
TRANSFORMER CA		4.4 MVA @ 25°C (0.63/33kV)
TOTAL SOLAR TRANS	FORMERS	68
PV MODULE T	YPE	592,752 x YINGLI YL615CF78
PV MODULE CAP	ACITY	615 Wp
PV MODULE DIME	NSIONS	2,465 x 1,134mm x 30mm
MODULES PER S	TRING	24
PV FRAMEWO	RK	SINGLE AXIS TRACKER
TRACKING RAM	NGE	+/60° to 60° EAST-WEST/ BACK
PITCH		5m
	STORAGE	
SYSTEM		
RATED POWE		Up to 1000mWh [BOL]
POWER		ENERGY VAULT 296 MW [tbc]
INVERTER NAME / C	APACITY	SMA SC3600-UP-XT / 3.6 MVA
		98
		3.62 MVA @ 25 C (0.63/33KV)
	ORMERS	30
	BOUNDARY	FENCE
	OVERHEAD	CABLE 220kV
	INTERNAL F	ROADS 4M
	EXTERNAL	VEGETATION BUFFER 5M
	ECOLOGICA	AL VEGETATION CORRIDOR
	FIRE SAFET	Y BUFFER 10M
	DAMS RETA	INED
	EASEMENT	
	CULTURAL	SENSITIVITY AREA
	PASSING BA	AYS
\oplus	TRANSMISS	SION LINE TOWERS
	GATES	
	CULVERT	
	SOLAR INVE	ERTER
\bigcirc	VEGETATIO	N - REMOVED
\bigcirc	VEGETATIO	N - RETAINED
\bigcirc	TREE PROT	ECTION ZONE 15M
:	SOLAR TRA	CKERS (7172)

72-STRING TRACKERS (1510)

96-STRING TRACKERS (4422)

CLIENT ISSUE MEADOW CREEK SOLAR FARMFOR REVIEW SCALE





REVISION

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DRAWING TITLE COVER SHEET

DRAWING NO. 001-CS

ATTAC	2 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
HYBRID SOLAR FARM	& AC-COUPLED BESS CATIONS	
GRID TRANSFER LIMIT	250 MWac	
SITE AREA (ha)	566.1 ha	
SOLAR FARM		
SOLAR PV DC CAPACITY	332 MWp	16475
SOLAR PV AC CAPACITY	285.60 MVA	
INVERTER NAME / CAPACITY	SMA SC4200-UP / 4.2 MVA	
TOTAL QUANTITY SOLAR INVERTERS	68	
TRANSFORMER CAPACITY	4.4 MVA @ 25°C (0.63/33kV)	
TOTAL SOLAR TRANSFORMERS	68	
PV MODULE TYPE	592,752 x YINGLI YL615CF78 N-TYPE BI-FACIAL	
PV MODULE CAPACITY	615 Wp	
PV MODULE DIMENSIONS	2,465 x 1,134mm x 30mm	
PV FRAMEWORK	SINGLE AXIS TRACKER	
TRACKING RANGE	+/60° to 60° EAST-WEST/ BACK	
PITCH	5m	
BATTERY ENERGY STOPAGE		
BESS DC ENERGY CAPACITY @		
RATED POWER BESS NAME / MAXIMUM RATED		
	SMA SC3600-UP-XT / 3.6 MVA	
TOTAL QUANTITY BESS	98	
TRANSFORMER CAPACITY	3.62 MVA @ 25°C (0.63/33kV)	
TOTAL BESS TRANSFORMERS	98	
GENERALLEC	END	
DEVELOPME		
BOUNDARY	FENCE	
OVERHEAD	CABLE 220kV	
INTERNAL F	COADS 4M	
EXTERNAL	FGETATION BUFFER 5M	
	VEGETATION BOFFER SW	
ECOLOGICA	L VEGETATION CORRIDOR	
FIRE SAFET	Y BUFFER 10M	
DAMS RETA	INED	
		128048
CULTURAL	SENSITIVITY AREA	
PASSING BA	AYS	
	ION LINE TOWERS	
GATES		
CULVERT		
SOLAR INVE	RTER	
VEGETATIO	N - REMOVED	
VEGETATIO	N - RETAINED	
TREE PROT	ECTION ZONE 15M	
	CKERS (7172)	
SULAK IRA		
48-STRING	TRACKERS (1240)	
70.0701/101	TRACKERS (1510)	
72-STRING		
72-STRING		
96-STRING	IRACKERS (4422)	
96-STRING	TRACKERS (4422)	

PROJECT



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Level 10, 477 Collins Street | Melbourne VIC 3000 AUSTRALIA | +61 3 8663 4888 | URBIS Ltd | ABN 50 105 256 228



KEY PLAN

ADVERTISED PLAN



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E	FOR REVIEW	AF	JM	29.08.2024
D	FOR REVIEW	AF	JM	14.08.2024
С	FOR REVIEW	AF	JM	21.05.2024
В	FOR REVIEW	AF	JM	15.04.2024
A	FOR REVIEW	AF	JM	25.03.2024
-	FOR REVIEW - DRAFT	AF	JM	28.02.2024
REV	DESCRIPTION	DWN	СНК	DATE

DISCLAIMER

ISSUE ISSUE

 JM
 29.08.2024

 JM
 29.08.2024

 JM
 14.08.2024

 JM
 21.05.2024

 JM
 25.03.2024

 JM
 25.03.2024

 JM
 28.02.2024

 SCALE 1:4500 @ A1 DRAWING NO. DRAWING TITLE DETAIL PLAN 01

N CHK DATE PROJECT DIRECTOR: JON MILLS

PROJECT NO. P0050228





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		SOLAR PV AC CAPACITY 285.60 M	i d'all	NEW MEADOW CREEK SOLAR		
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		TRANSFORMER CAPACITY 4.4 MVA @ 25°C	33/33kV)			
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OVERHEAD CARLE 22XV NEERNAL ROADS 4M EXERNAL VEGETATION REFER 3M COLOGICAL VEGETATION ROORDOR RESENTED VSUFFER 10M DAMS RETAINED CARLES C	Image: Construction State 2000 Image: Constate 2000 Image: Con		AF ANALY	60% (D)		
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PROJECT



MEADOW CREEK SOLAR FARM

ADVERTISED PLAN

1033 OXLEY-MEADOW CREEK RD, MEADOW CREEK VICTORIA, AUSTRALIA

Level 10, 477 Collins Street | Melbourne VIC 3000 AUSTRALIA | +61 3 8663 4888 | URBIS Ltd | ABN 50 105 256 228



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E	FOR REVIEW	AF	JM	29.08.2024
D	FOR REVIEW	AF	JM	14.08.2024
С	FOR REVIEW	AF	JM	21.05.2024
В	FOR REVIEW	AF	JM	15.04.2024
Α	FOR REVIEW	AF	JM	25.03.2024
	FOR REVIEW - DRAFT	AF	JM	28.02.2024
REV	DESCRIPTION	DWN	СНК	DATE

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CHK DATE PROJECT DIRECTOR: JON MILLS

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