# "SG-100D1" MV SWBD 6,6kV

# INTERCONNECTING

| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
|---|---|---|---|---|---|
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| 3 | 08/08/2024 | Giulietti | Flamminio | Sigismondi | As-Built (ASB) |
| 2 | 28/06/2024 | Giulietti | Flamminio | Sigismondi | Accepted for construction (AFC) |
| 1 | 23/05/2024 | Giulietti | Flamminio | Sigismondi | Issued for review (IFR) |
| 0 | 04/04/2024 | Giulietti | Flamminio | Sigismondi | Issued for review (IFR) |

IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/22

Item n° : PF1113279

CROSSWIND

ROSETTI MARINO

TITLE : SG-100D1 - INTERCONNECTING

Cover

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 1

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03

# INDEX

| Sheet | Description | Revision 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
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| 2 | Index | X | X | X | X | | | | | |
| 3 | Table of reference documents | X | X | X | X | | | | | |
| 4 | Intercolumn Wiring | X | X | X | X | | | | | |
| 5 | Intercolumn Wiring | X | X | X | X | | | | | |
| 6 | Intercolumn Wiring | X | X | X | X | | | | | |
| 7 | Network architecture IEC 61850 | X | X | X | X | | | | | |
| 8 | Network architecture Modbus TCP/IP | X | X | X | X | | | | | |

| Sheet | Description | Revision 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
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IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/22

Item n° : PF1113279

TITLE : SG-100D1 - INTERCONNECTING

Index

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 2

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03

| TABLE OF REFERENCES | | |
|---|---|---|
| Document nr. Client | Document nr. Supplier | Document title |
| 1723002197-EL-DA-00006 | 231151/SD/6 | SG-100D1 GENERAL ARRANGEMENTS |
| 1723002197-EL-DG-00010 | 231151/SD/10 | SG-100D1 ELECTRICAL SINGLE LINE DIAGRAM |
| 1723002197-EL-DG-00015 | 231151/SD/15 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - INCOMING FEEDER |
| 1723002197-EL-DG-00016 | 231151/SD/16 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - BUS BAR METERING |
| 1723002197-EL-DG-00017 | 231151/SD/17 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - BESS FEEDER |
| 1723002197-EL-DG-00018 | 231151/SD/18 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - ELECTROLYSER FEEDER |
| 1723002197-EL-DG-00019 | 231151/SD/19 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - FUEL CELL FEEDER |
| 1723002197-EL-DG-00020 | 231151/SD/20 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - TRANSFORMER FEEDER TR200ED1 |
| 1723002197-EL-DG-00021 | 231151/SD/21 | SG-100D1 MV SWG FUNCTIONAL DIAGRAM - TRANSFORMER FEEDER TR200DE1 |
| | | |
| | | |
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NOTE: To better understand this document you have to use in conjuction with the documents listed on the table above

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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/22

Item n° : PF1113279

TITLE : SG-100D1 - INTERCONNECTING

Table of reference documents

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SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 3

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03

| | ELECTROLYSER "A1" | SOLAR "A2" | BESS PACKAGE "A3" | TRANSF. 1,6MVA TR-200DE1 "A4" | VT BUS BARS "A5" | INCOMING "A6" | FUEL CELL "A7" |
|---|---|---|---|---|---|---|---|
| V.aux 110Vdc | 1 XC XC-2/A1 — 2 XC XC-2/A1 | XC-1/A2 1 XC — RD 1x6 — 2 XC XC-2/A2 | XC-1/A3 1 XC — 2 XC XC-2/A3 | XC-1/A4 1 XC — RD 1x6 — 2 XC XC-2/A4 | XC-1/A5 1 XC — RD 1x6 — 2 XC XC-2/A5 | XC-1/A6 1 XC — 2 XC XC-2/A6 | XC-1/A7 1 XC — RD 1x6 — 2 XC |
| | 3 XC XC-4/A1 — 4 XC XC-4/A1 | XC-3/A2 3 XC — WH 1x6 — 4 XC XC-4/A2 | XC-3/A3 3 XC — 4 XC XC-4/A3 | XC-3/A4 3 XC — WH 1x6 — 4 XC XC-4/A4 | XC-3/A5 3 XC — WH 1x6 — 4 XC XC-4/A5 | XC-3/A6 3 XC — 4 XC XC-4/A6 | XC-3/A7 3 XC — WH 1x6 — 4 XC |
| V.aux 24Vdc | 5 XC XC-6/A1 — 6 XC XC-6/A1 | XC-5/A2 5 XC — RD 1x1,5 — 6 XC XC-6/A2 | XC-5/A3 5 XC — 6 XC XC-6/A3 | XC-5/A4 5 XC — RD 1x1,5 — 6 XC XC-6/A4 | XC-5/A5 5 XC — RD 1x1,5 — 6 XC XC-6/A5 | XC-5/A6 5 XC — 6 XC XC-6/A6 | XC-5/A7 5 XC — RD 1x1,5 — 6 XC |
| | 7 XC XC-8/A1 — 8 XC XC-8/A1 | XC-7/A2 7 XC — WH 1x1,5 — 8 XC XC-8/A2 | XC-7/A3 7 XC — 8 XC XC-8/A3 | XC-7/A4 7 XC — WH 1x1,5 — 8 XC XC-8/A4 | XC-7/A5 7 XC — WH 1x1,5 — 8 XC XC-8/A5 | XC-7/A6 7 XC — 8 XC XC-8/A6 | XC-7/A7 7 XC — WH 1x1,5 — 8 XC |
| V.aux 230Vac | 9 XC XC-10/A1 — 10 XC XC-10/A1 | XC-9/A2 9 XC — BK 1x6 — 10 XC XC-10/A2 | XC-9/A3 9 XC — 10 XC XC-10/A3 | XC-9/A4 9 XC — BK 1x6 — 10 XC XC-10/A4 | XC-9/A5 9 XC — BK 1x6 — 10 XC XC-10/A5 | XC-9/A6 9 XC — 10 XC XC-10/A6 | XC-9/A7 9 XC — BK 1x6 — 10 XC |
| | 11 XC XC-12/A1 — 12 XC XC-12/A1 | XC-11/A2 11 XC — BK 1x6 — 12 XC XC-12/A2 | XC-11/A3 11 XC — 12 XC XC-12/A3 | XC-11/A4 11 XC — BK 1x6 — 12 XC XC-12/A4 | XC-11/A5 11 XC — BK 1x6 — 12 XC XC-12/A5 | XC-11/A6 11 XC — 12 XC XC-12/A6 | XC-11/A7 11 XC — BK 1x6 — 12 XC |
| VOLTMETRICAL LINE FROM MAIN BUS BAR 110:1,73Vac | 13 XC XC-14/A1 — 14 XC XC-14/A1 | XC-13/A2 13 XC — BK 1x1.5 — 14 XC XC-14/A2 | XC-13/A3 13 XC — 14 XC XC-14/A3 | XC-13/A4 13 XC — BK 1x1.5 — 14 XC XC-14/A4 | XC-13/A5 13 XC — BK 1x1.5 — 14 XC XC-14/A5 | XC-13/A6 13 XC — 14 XC XC-14/A6 | XC-13/A7 13 XC — BK 1x1.5 — 14 XC |
| | 15 XC XC-16/A1 — 16 XC XC-16/A1 | XC-15/A2 15 XC — BK 1x1.5 — 16 XC XC-16/A2 | XC-15/A3 15 XC — 16 XC XC-16/A3 | XC-15/A4 15 XC — BK 1x1.5 — 16 XC XC-16/A4 | XC-15/A5 15 XC — BK 1x1.5 — 16 XC XC-16/A5 | XC-15/A6 15 XC — 16 XC XC-16/A6 | XC-15/A7 15 XC — BK 1x1.5 — 16 XC |
| | 17 XC XC-18/A1 — 18 XC XC-18/A1 | XC-17/A2 17 XC — BK 1x1.5 — 18 XC XC-18/A2 | XC-17/A3 17 XC — 18 XC XC-18/A3 | XC-17/A4 17 XC — BK 1x1.5 — 18 XC XC-18/A4 | XC-17/A5 17 XC — BK 1x1.5 — 18 XC XC-18/A5 | XC-17/A6 17 XC — 18 XC XC-18/A6 | XC-17/A7 17 XC — BK 1x1.5 — 18 XC |
| | 19 XC XC-20/A1 — 20 XC XC-20/A1 | XC-19/A2 19 XC — BK 1x1.5 — 20 XC XC-20/A2 | XC-19/A3 19 XC — 20 XC XC-20/A3 | XC-19/A4 19 XC — BK 1x1.5 — 20 XC XC-20/A4 | XC-19/A5 19 XC — BK 1x1.5 — 20 XC XC-20/A5 | XC-19/A6 19 XC — 20 XC XC-20/A6 | XC-19/A7 19 XC — BK 1x1.5 — 20 XC |
| VOLTMETRICAL LINE FROM MAIN BUS BAR 110:3Vac | 21 XC XC-22/A1 — 22 XC XC-22/A1 | XC-21/A2 21 XC — BK 1x1.5 — 22 XC XC-22/A2 | XC-21/A3 21 XC — 22 XC XC-22/A3 | XC-21/A4 21 XC — BK 1x1.5 — 22 XC XC-22/A4 | XC-21/A5 21 XC — BK 1x1.5 — 22 XC XC-22/A5 | XC-21/A6 21 XC — 22 XC XC-22/A6 | XC-21/A7 21 XC — BK 1x1.5 — 22 XC |
| | 23 XC XC-24/A1 — 24 XC XC-24/A1 | XC-23/A2 23 XC — BK 1x1.5 — 24 XC XC-24/A2 | XC-23/A3 23 XC — 24 XC XC-24/A3 | XC-23/A4 23 XC — BK 1x1.5 — 24 XC XC-24/A4 | XC-23/A5 23 XC — BK 1x1.5 — 24 XC XC-24/A5 | XC-23/A6 23 XC — 24 XC XC-24/A6 | XC-23/A7 23 XC — BK 1x1.5 — 24 XC |
| EARTH.SWITCH OPEN (VT BUS BARS UNIT) | 25 XC XC-25/A1 — BK 1x1.5 — XC-27/A5 27 XC | | | | | | |
| | 26 XC XC-26/A1 — BK 1x1.5 — XC-28/A5 28 XC | | | | | | |
| | | 25 XC XC-25/A2 — BK 1x1.5 — XC-29/A5 29 XC | | | | | |
| | | 26 XC XC-26/A2 — BK 1x1.5 — XC-30/A5 30 XC | | | | | |
| | | | 25 XC XC-25/A3 — BK 1x1.5 — XC-31/A5 31 XC | | | | |
| | | | 26 XC XC-26/A3 — BK 1x1.5 — XC-32/A5 32 XC | | | | |

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CROSSWIND

ROSETTI MARINO

IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/22

Item n° : PF1113279

TITLE : SG-100D1 - INTERCONNECTING

Intercolumn Wiring

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 4

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03

| | ELECTROLYSER "A1" | SOLAR "A2" | BESS PACKAGE "A3" | TRANSF. 1,6MVA TR-200DE1 "A4" | VT BUS BARS "A5" | INCOMING "A6" | FUEL CELL "A7" |
|---|---|---|---|---|---|---|---|
| EARTH.SWITCH OPEN (FROM VT BUS BARS UNIT) | | | | 25 XC — XC-25/A4 | XC-33/A5 — 33 XC (BK 1x1.5) | | |
| | | | | 26 XC — XC-26/A4 | XC-34/A5 — 34 XC (BK 1x1.5) | | |
| | | | | | 35 XC — XC-35/A5 (BK 1x1.5) | XC-25/A6 — 25 XC | |
| | | | | | 36 XC — XC-36/A5 (BK 1x1.5) | XC-26/A6 — 26 XC | |
| | | | | | 37 XC — XC-37/A5 (BK 1x1.5) | | XC-25/A7 — 25 XC |
| | | | | | 38 XC — XC-38/A5 (BK 1x1.5) | | XC-26/A7 — 26 XC |
| ENABLING COMMAND EARTHING SWITCH VT BUS BARS UNIT | 28 XC — XC-28/A1 | XC-27/A2 — 27 XC (BK 1x1.5) | 28 XC — XC-28/A2 | XC-27/A3 — 27 XC (BK 1x1.5) | 28 XC — XC-28/A3 | XC-27/A4 — 27 XC (BK 1x1.5) | 28 XC — XC-28/A4 |
| | XC-25/A5 — 25 XC (BK 1x1.5) | | 26 XC — XC-26/A5 | XC-27/A6 — 27 XC (BK 1x1.5) | | 28 XC — XC-28/A6 | XC-27/A7 — 27 XC (BK 1x1.5) |
| | 27 XC — XC-27/A1 (BK 1x1.5) | | | | | | XC-28/A7 — 28 XC (BK 1x1.5) |
| SIGNALS FROM VT BUS BARS UNIT TO CELL PAKAGE UNIT | | | | | 45 XC — XC-45/A5 (BK 1x1.5) | | XC-29/A7 — 29 XC |
| | | | | | 46 XC — XC-46/A5 (BK 1x1.5) | | XC-30/A7 — 30 XC |
| | | | | | 49 XC — XC-49/A5 (BK 1x1.5) | | XC-31/A7 — 31 XC |
| | | | | | 50 XC — XC-50/A5 (BK 1x1.5) | | XC-32/A7 — 32 XC |
| | | | | | 41 XC — XC-41/A5 (BK 1x1.5) | | XC-33/A7 — 33 XC |
| | | | | | 42 XC — XC-42/A5 (BK 1x1.5) | | XC-34/A7 — 34 XC |
| | | | | | 43 XC — XC-43/A5 (BK 1x1.5) | | XC-35/A7 — 35 XC |
| | | | | | 44 XC — XC-44/A5 (BK 1x1.5) | | XC-36/A7 — 36 XC |
| | | | | | 47 XC — XC-47/A5 (BK 1x1.5) | | XC-37/A7 — 37 XC |
| | | | | | 48 XC — XC-48/A5 (BK 1x1.5) | | XC-38/A7 — 38 XC |
| | | | | | 39 XC — XC-39/A5 (BK 1x1.5) | | XC-39/A7 — 39 XC |
| | | | | | 40 XC — XC-40/A5 (BK 1x1.5) | | XC-40/A7 — 40 XC |
| | | | | | 51 XC — XC-51/A5 (BK 1x1.5) | | XC-41/A7 — 41 XC |
| | | | | | 52 XC — XC-52/A5 (BK 1x1.5) | | XC-42/A7 — 42 XC |

CROSSWIND

ROSETTI MARINO

IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/22

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TITLE : SG-100D1 - INTERCONNECTING

Intercolumn Wiring

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 5

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03

| | ELECTROLYSER "A1" | SOLAR "A2" | BESS PACKAGE "A3" | TRANSF. 1,6MVA TR-200DE1 "A4" | VT BUS BARS "A5" | INCOMING "A6" | FUEL CELL "A7" |
|---|---|---|---|---|---|---|---|
| PROTECTION RELAY HEALTHY | 29 XC-29/A1 XC BK 1x1.5 | | | | | | XC-47/A7 BK 1x1.5 47 XC |
| | 30 XC-30/A1 XC BK 1x1.5 | | | | | | XC-48/A7 BK 1x1.5 48 XC |
| | 31 XC-31/A1 XC BK 1x1.5 | XC-29/A2 29 XC | | | | | |
| | 32 XC-32/A1 XC BK 1x1.5 | XC-30/A2 30 XC | | | | | |
| | | 31 XC-31/A2 XC BK 1x1.5 | XC-29/A3 29 XC | | | | |
| | | 32 XC-32/A2 XC BK 1x1.5 | XC-30/A3 30 XC | | | | |
| | | | 31 XC-31/A3 XC BK 1x1.5 | XC-29/A4 29 XC | | | |
| | | | 32 XC-32/A3 XC BK 1x1.5 | XC-30/A4 30 XC | | | |
| | | | 37 XC-37/A3 XC BK 1x1.5 | XC-31/A4 31 XC | | | |
| | | | 38 XC-38/A3 XC BK 1x1.5 | XC-32/A4 32 XC | | | |
| | | | | | | 31 XC-31/A6 XC BK 1x1.5 | XC-45/A7 45 XC |
| | | | | | | 32 XC-32/A6 XC BK 1x1.5 | XC-46/A7 46 XC |
| 230Vac AUXILIARY SUPPLY HEALTHY | 33 XC-33/A1 XC BK 1x1.5 | XC-33/A2 BK 1x1.5 34 XC | 34 XC-34/A2 XC BK 1x1.5 | XC-34/A3 34 XC | 33 XC-33/A3 XC BK 1x1.5 | XC-33/A4 33 XC | 34 XC-34/A4 XC BK 1x1.5 |
| | 34 XC-34/A1 XC BK 1x1.5 | | | | | | XC-44/A7 44 XC |
| | | | | | | | XC-54/A5 54 XC |
| | | | | | | | 53 XC-53/A5 XC BK 1x1.5 |
| | | | | | | | XC-33/A6 33 XC |
| | | | | | | | 34 XC-34/A6 XC BK 1x1.5 |
| | | | | | | | XC-43/A7 43 XC |
| OPENING COMMAND FROM INCOMING | 35 XC-35/A1 XC BK 1x1.5 | | | | | | XC-35/A6 35 XC |
| | 36 XC-36/A1 XC BK 1x1.5 | | | | | | XC-36/A6 36 XC |

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Item n° : PF1113279

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Intercolumn Wiring

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

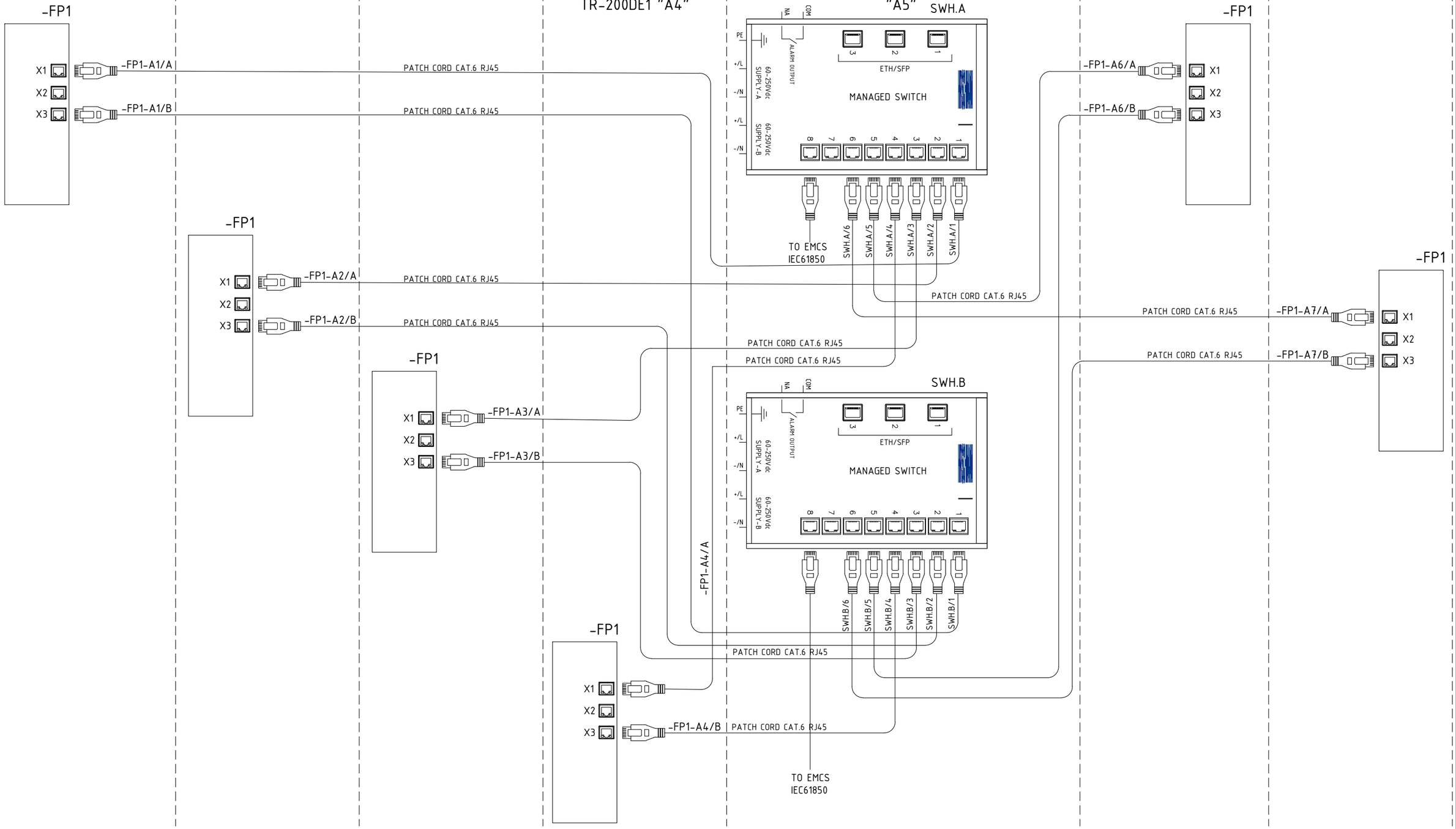
DRAWING NO. 1723002197-EL-DG-00022

SHEET 6

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03




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IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE : SG-100D1 - INTERCONNECTING

Network architecture IEC 61850

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 7

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03

ELECTROLYSER "A1"

SOLAR "A2"

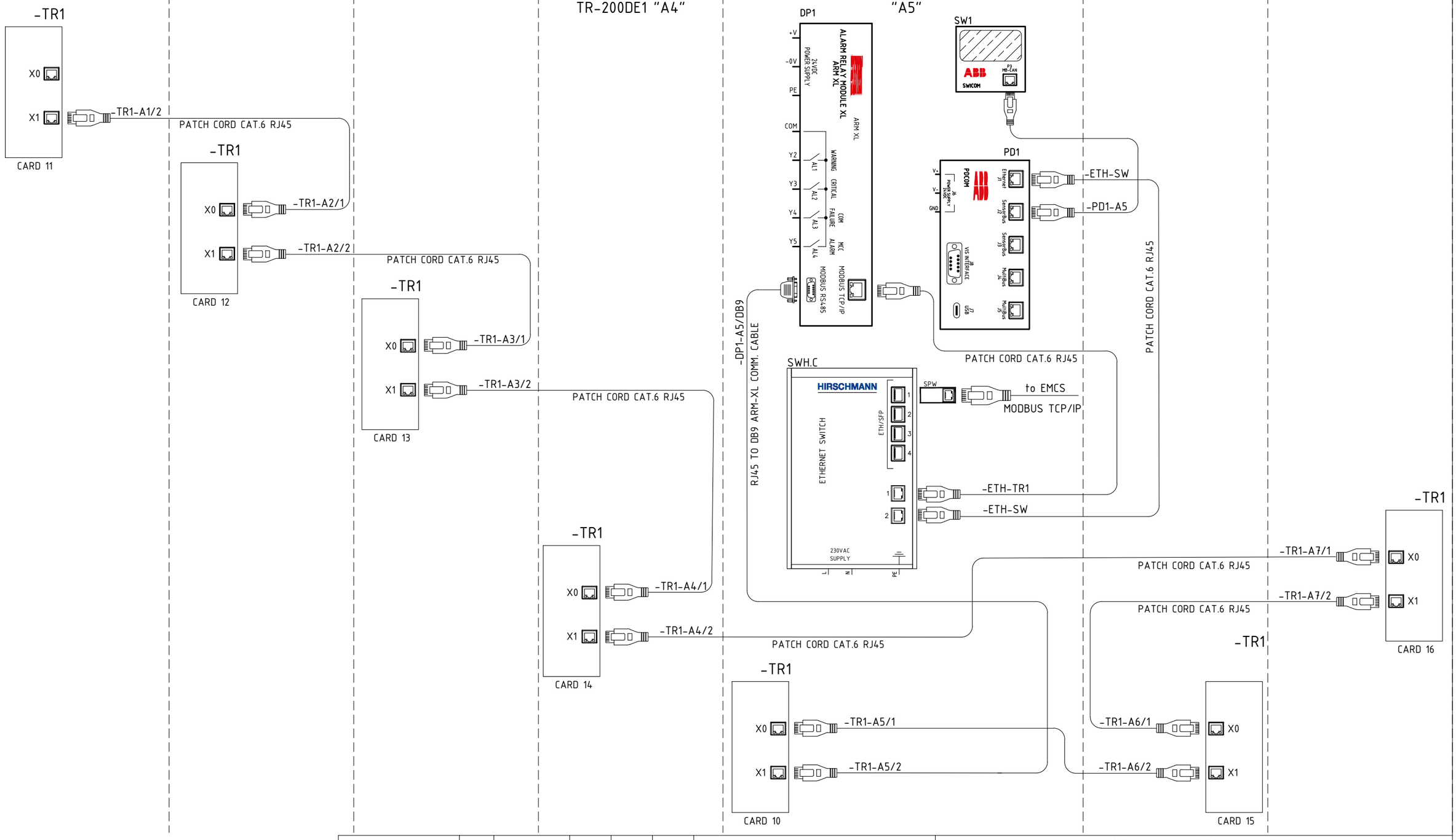
BESS PACKAGE "A3"

TRANSF. 1,6MVA
TR-200DE1 "A4"

VT BUS BARS
"A5"

INCOMING "A6"

FUEL CELL "A7"




| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
|---|---|---|---|---|---|
| = | | | | | |
| + | | | | | |
| 3 | 08/08/2024 | Giulietti | Flamminio | Sigismondi | As-Built (ASB) |
| 2 | 28/06/2024 | Giulietti | Flamminio | Sigismondi | Accepted for construction (AFC) |
| 1 | 23/05/2024 | Giulietti | Flamminio | Sigismondi | Issued for review (IFR) |
| 0 | 04/04/2024 | Giulietti | Flamminio | Sigismondi | Issued for review (IFR) |

DWG n° : 231151/SD/22
Item n° : PF1113279

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : SG-100D1 - INTERCONNECTING

Network architecture Modbus TCP/IP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00022

SHEET 8

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00022 Rev.03