

## FY 2024 Main Material/Equipment Procurement Plan Related to Power Transmission Operations

### General material/equipment

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No	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/Implementation Locations	Scheduled Procurement Date	Delivery Deadline
1	Power cable (Included with works)	110 kV · 2 cct 0.8 km CVSS 200 sq	4,800	m	Location specified by Chugoku Electric Transmission & Distribution(Tottori Pref.)	202512	202712
2	Power cable (Included with works)	Cable and other various materials 66 kV, 1 cct, CVTSS-PP 400 (2 km), EBA-854 (3 phases/1 set), EBA-1054 (3 phases/1 set), and other various materials	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202512
3	Power cable (Included with works)	110 kV, 2 cct transmission lines, 2.02 km, CVSS 2,500 mm <sup>2</sup> x 3, cable termination junction box assemblies (EB-A): 4 sets in 2 locations, Intermediate junction box assemblies (RBJ (IJ)): 4 sets in 2 locations	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202410	202703
4	Power cable (Included with works)	66 kV, 1 cct transmission lines, 0.49 km, CVTSS 100 mm <sup>2</sup> , etc. Cable termination junction box assembly (EB-A): 1 set, Intermediate junction box assemblies (RBJ): 2 sets in 2 locations	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202510	202803
5	Power cable (Included with works)	110 kV, 1 cct, 1.98 km, CVSS 1 x 400, CVTSS 3 x 400, CVTSS 3 x 800, CVSS 1 x 1,200, 6 sets of regular intermediate junction boxes, 2 sets of insulated intermediate junction boxes, 1 set of direct mold-type open-air cable termination junction boxes, 1 set of gas-immersed cable termination junction boxes, connection works	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202311	202409
6	Power cable (Included with works)	110 kV, 1 cct, transmission line length of 1.70 km, CVSS 1 x 1,000 (planned), 2 sets of EBG, 12 sets of JB, 1 set of YJ (including accessories), YJ connection works	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202403	202508
7	Power cable (Included with works)	110 kV, 1 cct, 2.75 km of transmission line, OF 1,000 -> CVT 400 to 800, 1 set of open-air cable termination junctions, 12 sets of intermediate junctions	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202405	202603
8	Power cable (Included with works)	110 kV, 1 cct of 2 cct, 2.14 km, CV (T) SS800 1 set of gas-immersed cable termination junction boxes, 11 sets of intermediate junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202604

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9	Power cable (Included with works)	110 kV, 1 cct of 2 cct, 2.14 km, CV (T) SS800 1 set of gas-immersed cable termination junction boxes, 11 sets of intermediate junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202807
10	Power cable (Included with works)	110 kV, 1 cct, 1.98 km, CVSS 1 x 400, CVTSS 3 x 400, CVTSS 3 x 800, CVSS 1 x 1,200, 6 sets of regular intermediate junction boxes, 2 sets of insulated intermediate junction boxes, 1 set of direct mold-type open-air cable termination junction boxes, 1 set of gas-immersed cable termination junction boxes, connection works	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202409	202509
11	Power cable (Included with works)	CVTSS-Y, 400 mm <sup>2</sup> , 1,400 m, 3 phases for porcelain bushing-type cable termination junction boxes CVTSS-Y 400 mm <sup>2</sup> , 4 sets (3 phases/set) for intermediate junction boxes CVTSS-Y 400 mm <sup>2</sup> , other materials such as pulling eyes	1,400	m	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202409	202601
12	Power cable (Included with works)	110 kV, 1 cct, transmission line length of 2.82 km, CVSS 1 x 800 (planned), 1 set of EBA, 12 sets of JB (including accessories), YJ connection works	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202411	202608
13	Power cable (Included with works)	110 kV, 2 cct, No. 6 MH to No. 12-1 MH, 1.77 Km, CVSS 1 x 800, 1,000, 14 sets of intermediate junctions, 6 sets of creepage prevention devices	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202504	202701
14	Power cable (Included with works)	110 kV, 1 cct, 1.1 km of transmission line, conduit lines with 4 spans, CVTSS x 600, 1.1 km, 4 sets of JB, 1 set of YJ	1,100	m	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202504	202801
15	Power cable (Included with works)	110-kV XLPE cable (with impermeable layer), 1400, 100 sq (including cable works)	2,100	m	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202504	202806
16	Power cable (Included with works)	110 kV, 1 cct, 2.60 km, CVTSS 3 x 400, 7 sets of intermediate junctions (regular) (including 1 set of YJ), 1 set of cable termination junctions (open-air), 1 set of cable termination junctions (gas-immersed)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202505	202803
17	Power cable (Included with works)	110 kV, 1 cct, 1.37 km of transmission line, CVTSS 400, 6 sets of intermediate junction boxes (RBJ), 1 set of gas-immersed cable termination junction boxes, 1 set of open-air cable termination junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202507	202709

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18	Power cable (Included with works)	110-kV transmission line, 1 cct, line length of 0.43 km, CVSS 1 x 1,000 mm <sup>2</sup> , 1 set of gas-immersed cable termination junction boxes, 3 sets of intermediate junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202509	202711
19	Power cable (Included with works)	110 kV, CVSS-800 900 m (assumed) 4 sets of open-air cable termination boxes (PC-227FR), other cable accessories	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202601	202706
20	Power cable (Included with works)	110 kV, 2 cct, 1.3 km of transmission line, 4 MH towers, CVSS 600 sq, 2 sets of cable termination junction box assemblies in 1 location, 10 sets of intermediate junction box assemblies in 5 locations (including YJ)	7,800	m	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202701	203003
21	Power cable (Included with works)	110 kV, 1 cct, 2.85 km, CVTSS-800, 1 set of open-air cable termination junction boxes, 13 intermediate junction boxes (RBJ)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202703	202809
22	Power cable (Included with works)	2 L, CVSS-Y 2,500 sq: 2,650 m, 4 sets of intermediate junction boxes, 2 sets of cable termination junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202403	202512
23	Power cable (Included with works)	110 kV transmission line, 0.25 km, CVTSS-Y 325 sq, asbestos cement pipe φ200 (reuse of existing pipe), open-air cable termination junction boxes in 4 locations	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202411	202707
24	Power cable (Included with works)	66 kV, 1 cct, 1.6 km of transmission line, CVTSS-Y 80 mm <sup>2</sup> , on-tower EBA in 2 locations, intermediate junction boxes in 4 locations (planned)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202501	202701
25	Power cable (Included with works)	1 L, CVSS-Y 2,500 sq: 2,870 m, 4 sets of intermediate junction boxes, 2 sets of cable termination junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202503	202612
26	Power cable (Included with works)	66-kV XLPE cable (with impermeable layer), 1,200 sq (including cable works)	1,500	m	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202504	202711
27	Power cable (Included with works)	110 kV, 2 cct, 1.24 km of transmission line, PFP φ200 x 2 (reused), PFP φ250 x 2, FEP φ 250 x 2, new installation of 4 MH towers and reuse of 1 tower, CVTSS-Y 325, 400, 600 mm <sup>2</sup> , 4 sets of EB-A, 8 sets of intermediate junction boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202601	202803

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28	Power cable (Included with works)	110 kV, 1 CCT, 1.50 km of transmission line, CVSS-Y 400-equivalent x 2, 5 MH towers (reused), ACP 200 (reused)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202605	202806
29	Power cable (Included with works)	2 cct, CVSS-Y 1,800 sq: 1L; 930 m, 2L; 1110 m, 1 set of intermediate junction boxes, 2 sets of open-air cable termination boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202607	202810
30	Power cable (Included with works)	2 cct, CVTSS-Y 400 sq: 1L; 260 m, 2L; 330 m, 1 set of intermediate junction boxes, 2 sets of open-air cable termination boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202607	202810
31	Power cable/Submarine cable	6.6 kV WCEWA 22sq-3C, 13,000m	13,000	m	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202412	202704
32	Naked aluminum wire (410 sq or less)	TACSR/AC 410 x 4 (pre-fabricated marking), 500 kV, 2 cct, total line length of 7.3 km, approx. 88 km of wire	88,000	m	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202407	202508
33	Naked aluminum wire (410 sq or less)	TACSR/AC 410 x 4 (pre-fabricated marking), 500 kV, 2 cct, total line length of 7.3 km, approx. 88 km of wire	88,000	m	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202407	202702
34	Naked aluminum wire (410 sq or less)	<ul style="list-style-type: none"> <li>· KTACSR/XHRAC335mm<sup>2</sup>, 17,300m</li> <li>· TACSR/HRAC330mm<sup>2</sup>, 8,360m</li> </ul>	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202404	202505
35	Naked aluminum wire (410 sq or less)	Power line TACSR/AC 410 (Pre-fabricated aerial line calculation, marking treatment)	240,000	m	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202502 2L:202508
36	Naked aluminum wire (410 sq or less)	Power line TACSR/AC 410 (Pre-fabricated aerial line calculation, marking treatment, partial boehmite treatment)	184,080	m	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202602 2L:202608
37	Naked aluminum wire (410 sq or less)	110 kV, 2 cct, line length of 7.18 km, bundle conductor, TACSR/AC 330, 94.8 km	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202409	202511

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38	Aerial line hardware for extra high voltage	<p>1L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 24 sets, Single-line suspension equipment: 6 sets, Double-line suspension equipment: 3 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 8 sets, suspension equipment: 3 sets</p> <p>2L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 24 sets, Single-line suspension equipment: 6 sets, Double-line suspension equipment: 3 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 8 sets, suspension equipment: 3 sets</p>	88	strig	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202501 2L:202507
39	Aerial line hardware for extra high voltage	<p>1L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 30 sets, Single-line suspension equipment: 24 sets, Double-line suspension equipment: 12 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 10 sets, suspension equipment: 12 sets</p> <p>2L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 30 sets, Single-line suspension equipment: 24 sets, Double-line suspension equipment: 12 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 10 sets, suspension equipment: 12 sets</p>	176	strig	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202501 2L:202507

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40	Aerial line hardware for extra high voltage	1L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 36 sets, Single-line suspension equipment: 3 sets, Double-line suspension equipment: 6 sets, Jumper V-string suspension equipment: 3 phases) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 12 sets, suspension equipment: 3 sets 2L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 36 sets, Single-line suspension equipment: 3 sets, Double-line suspension equipment: 6 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 12 sets, suspension equipment: 3 sets	123	strig	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202601 2L:202607
41	Aerial line hardware for extra high voltage	1L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 24 sets, Single-line suspension equipment: 3 sets, Double/single line V-string suspension equipment: 3 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 8 sets, suspension equipment: 2 sets 2L 500-kV double-line tension equipment for 4 conductors, 660 kN, 24-piece set, Z = 3,800 mm, etc. (thick plating specifications) (Double-line tension equipment: 24 sets, Single-line suspension equipment: 3 sets, Double/single line V-string suspension equipment: 3 sets) Grounding conductor hardware (including tension clamps, jumper clamps, and PG clamps), tension equipment: 8 sets, suspension equipment: 2 sets	80	strig	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202601 2L:202607
42	Extra-high voltage insulators	1L Suspension insulators (SU-330BN), 330 kN, 320 mm, ball-and-socket type, white, brown, etc. (SU-330BN: 1728 pcs., SU-210BN: 972 pcs.) 2L Suspension insulators (SU-330BN), 330 kN, 320 mm ball-and-socket type, white, brown, etc. (SU-330BN: 1728 pcs., SU-210BN: 972 pcs.)	5,400	piece	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202501 2L:202507

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43	Extra-high voltage insulators	1L Suspension insulators (SU-330BN), 330 kN, 320 mm, ball-and-socket type, white, brown, etc. (SU-330BN: 1872 pcs., SU-210BN: 243 pcs., SU-120CN: 204 pcs.) 2L Suspension insulators (SU-330BN), 330 kN, 320 mm ball-and-socket type, white, brown, etc. (SU-330BN: 1872 pcs., SU-210BN: 243 pcs.)	4,434	piece	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	1L:202601 2L:202607
44	Steel towers/Steel structures	Steel tower materials for 11 new towers and modification materials for 1 tower	1	set	Location specified by Chugoku Electric Transmission & Distribution(Tottori Pref.)	202412	202504
45	Steel towers/Steel structures	Steel tower materials (Reinforcement works for 110 kV transmission lines)	227	t	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202404	202512
46	Steel towers/Steel structures	110-kV steel tower materials (angle steel): 14 new towers, 1 modified tower Beginning advanced deliveries of foundation materials in November 2024	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202405	202506
47	Steel towers/Steel structures	Outdoor steel structures (220 kV: 16 posts, 22 beams, 66 kV: 6 transmission line posts, 16 bus posts, 19 beams, including design of outdoor structure)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202703
48	Steel towers/Steel structures	Angled material: 11 new towers (423 t), 2 modified towers (2 t) *Corrosion-resistant specifications	425	t	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202409	202609
49	Steel towers/Steel structures	Steel tower materials: 10 new towers, 7 modified towers (including cable house modification)	17	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202410	202505
50	Steel towers/Steel structures	Angled material: 10 new towers (425 t), 2 modified towers (2 t), painting for daytime obstacle markings (4 towers) *Corrosion-resistant specifications	427	t	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202411	202609
51	Steel towers/Steel structures	Pipes: 3 new towers (176 t), Angled material: 4 new towers (194 t), 2 modified towers (7 t) *Corrosion-resistant specifications (powder coating)	377	t	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202501	202609

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52	Steel towers/Steel structures	Takahashi 66 kV, 1/2 cct, No. 52 to 64, 2.72 km, TACSR 330, OPAC 70 (24), 11 new towers, 2 modified towers, 13 disposed towers Steel tower materials: 11 new towers, 2 modified towers, foundation material delivery in August and later, including full-scale inspection	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202503	202512
53	Steel towers/Steel structures	6 new towers, 66 t (assumed), 3.0 t of modification materials, full-scale inspection of 1 tower, etc.	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202410
54	Steel towers/Steel structures	110 kV, 2 cct, angled steel towers 21 new towers, 395 t (assumed) 3 modified towers, 3 t (assumed)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202407	202511
55	Iron and steel	In-tunnel hardware: Standing hardware, ring material, etc.	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202410	202503
56	Iron and steel	Cable support hardware (Earthquake-resistant poles, holding hardware, standing hardware, etc.)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202409	202506
57	Power transformers (220 kV or less)	Power transformer	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Tottori Pref.)	202404	202705
58	Power transformers (220 kV or less)	Power transformer(110/66/22kV,60/60/18MVA)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202406	202612
59	Power transformers (220 kV or less)	Power transformer(110/66/22kV,60/60/18MVA)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202405	202703
60	Power transformers (220 kV or less)	Interconnection transformer (110/66/22 kV): 1 unit Cooler control panel: 1 unit Main transformer protective panel: 1 unit	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202405	202706



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61	Power transformers (220 kV or less)	Distribution transformer (110/6.6/22 kV, 25/20/15 MVA)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202411	202707
62	Power transformers (220 kV or less)	Distribution transformer (107.5/6.9/23 kV, 25/20/15 MVA) x 1 unit	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202609
63	Power transformers (220 kV or less)	Power transformer(107.5/6.9kV,25/25MVA)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202610
64	Power transformers (220 kV or less)	On-load tap changing transformer, 110/66 kV, 30/30 MVA	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202410	202703
65	Power transformers (220 kV or less)	Distribution transformer (64.5/6.9/23 kV, 20/15/15 MVA, Y-Y-Y)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202407	202607
66	Power transformers (220 kV or less)	Distribution transformer (64.5/6.9/23 kV, 20/15/15 MVA, Y-Y-Y)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202407	202702
67	Power transformers (220 kV or less)	Distribution transformer (64.5/6.9/23 kV, 20/15/10 MVA)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202412	202612
68	Power transformers (220 kV or less)	Distribution transformer (107.5/6.9/23 kV, 30/25/15 MVA), salt resistance of 0.06	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202412	202704
69	Power transformers (220 kV or less)	Interconnection transformer (110/66/22 kV, 100/100/30 MVA), salt resistance of 0.06, transformer protective panel	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202412	202710
70	Power transformers (220 kV or less) (Repair/Inspection)	Motorized valve for cooling tower x 8, Gate valve x 1, Piping heater, etc.	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202402	202507

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71	Gas insulated switchgear (GIS)	GIS	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202604
72	Gas insulated switchgear (GIS)	120-kV gas insulated switchgear (GIS) x 2 units [Transmission line x 2]	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202705
73	Gas insulated switchgear (GIS)	120-kV gas insulated switchgear (GIS) x 6 units (Transmission line x 2, Transformer primary x 2, Bus tie x 2)	6	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202705
74	Gas insulated switchgear (GIS)	110-kV neutral point GIS (Tr neutral point unit x 3, NGR unit x 2)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202806
75	Gas insulated switchgear (GIS)	120 kV gas insulated switchgear (GIS) x 1 unit [Transmission line x 1]	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202503	202703
76	Gas insulated switchgear (GIS)	120-kV gas insulated switchgear (GIS) x 1 unit [Transmission line x 1] *Including bus piping, bus PT, LBS	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202503	202703
77	Gas insulated switchgear (GIS)	110-kV branching unit for GIS modification (120 kV, 800 A, 25 kA)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202406	202610
78	Gas insulated switchgear (GIS)	110-kV gas insulated switchgear x 5 units (Transmission line x 2, Bus tie x 1, Tr primary x 2)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202407	202606
79	Gas insulated switchgear (GIS)	72-kV gas insulated switchgear (Transmission lines, transformers, bus ties)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202412	202611
80	Gas Composite Switchgear (GCS)	240-kV composite gas insulated switchgear (240 kV, 4,000 A, 63 kA, breaker, disconnecting switch, earthing switch)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202408	202710

## General material/equipment

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81	Gas Composite Switchgear (GCS)(Repair/Inspection)	MTr GCS repair	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202409	202507
82	Gas Composite Switchgear (GCS)(Repair/Inspection)	MTr GCS repair	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202502	202601
83	Gas circuit breaker	240-kV gas circuit-breaker (240 kV, 4,000 A, 31.5 kA, Unit A, for bus tie)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202706
84	Gas circuit breaker	240-kV gas circuit-breaker (240 kV, 4,000 A, 31.5 kA, Unit R, for transmission lines)	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202711
85	Gas circuit breaker	Gas circuit breaker	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202409	202703
86	Gas circuit breaker	Breaker (only GCB permitted, rated voltage of 240 kV, rated normal current of 4,000 A, rated interrupting current of 40 kA, contamination classification of 0.03 mg/cm <sup>2</sup> , BCT 4-core)	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202405	202610
87	Gas circuit breaker	240kVGCB,4000A,63kA	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202405	202609
88	Gas circuit breaker	Gas circuit-breaker (120 kV, 1,200 A, 31.5 kA, salt resistance of 0.12)	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202408	202611
89	Gas circuit breaker	120-kV gas circuit-breaker (120 kV, 1,200 A, 25 kA), salt resistance of 0.06	3	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202412	202704
90	Disconnecting switches for electric power	240-kV disconnecting switch (240 kV, 4,000 A) (2 units for lines, 6 units for bus)	8	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202611

## General material/equipment

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91	Disconnecting switches for electric power	240-kV disconnecting switch (240 kV, 4,000 A) (2 units for lines, 6 units for bus)	8	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202711
92	Power capacitors/reactors	22-kV shunt reactor (22 kV, 10 MVA) Installation and adjustment for the device above	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202512
93	Power capacitors/reactors	66-kV shunt reactor (40 MVar, oil immersed self-cooled type, 70 dB)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202608
94	Power capacitors/reactors	22kV SC(20MVA)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202806
95	Power capacitors/reactors	Neutral reactor (66/√3 kV, 100 A, gas-insulated type *Rated time being confirmed.)	2	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202405	202611
96	Power capacitors/reactors	60 kV, 100 MVA (including protective panel)	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202512	202811
97	Unit-enclosed switchboard	6kV SWG	5	box	Location specified by Chugoku Electric Transmission & Distribution(Tottori Pref.)	202504	202612
98	Unit-enclosed switchboard	24-kV switchgear Distribution line x 2 boxes, Bus box x 1 box, Distribution transformer tertiary box x 1 box Mobile device junction box x 1 box	5	box	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202405	202703
99	Unit-enclosed switchboard	24-kV switchgear (Distribution transformer tertiary box, Distribution line box x 2 boxes, Bus tie box), Mobile device junction box, Full-scale inspection (foundation reused, power cables reused)	4	box	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202711
100	Unit-enclosed switchboard	24-kV switchgear (Tr tertiary box x 2, PT/LA box x 2, ShR box x 2, Bus tie box)	7	box	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202809

## General material/equipment

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No	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline
101	Unit-enclosed switchboard	22-kV switchgear	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202410	202611
102	Unit-enclosed switchboard	6-kV No. 1B (Bus tie CB distribution line box x 1, Distribution transformer secondary box x 1, Distribution line box x 2, Station GPT box x 1) 6-kV No. 2B (Bus tie DS distribution line box x 1, Distribution transformer secondary box x 1, Distribution line box x 2, Station GPT box x 1)	10	box	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202505	202706
103	Unit-enclosed switchboard	3B-1, 2 SWG replacement - Distribution transformer secondary box: 2 boxes, Station, GPT box: 2 boxes, Bus tie, distribution line box: 2 boxes, Distribution line box: 2 boxes	8	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202605
104	Unit-enclosed switchboard	22-kV switchgear - Tr tertiary x 2, Distribution line x 2, Bus tie x 1, Station GPT x 2, 4 breaker units installed - On-site delivery deadline: September 2026	7	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202404	202610
105	Unit-enclosed switchboard	22-kV SWG Tr secondary (with GPT and LA) box, Transmission line box x 2, Bus tie box	4	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202510
106	Unit-enclosed switchboard	7.2-kV metal enclosed switchgear [Mobile use] (Distribution line / Station / GPT x 1 box, Distribution transformer secondary x 1 box, Distribution line x 2 boxes, Total of 4 breaker units installed) *On-site delivery: Planned for September 2027	4	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202710
107	Unit-enclosed switchboard	22-kV SWG (Tr tertiary box x 2, Bus tie box x 1, Station Tr box x 2, Phase modification box x 1)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202806
108	Unit-enclosed switchboard	7.2-kV metal enclosed switchgear (Station / GPT x 1 box, Distribution transformer secondary x 2 boxes, Distribution line x 3 boxes, Bus tie / distribution line x 1 box, GPT PT x 1 box, Total of 10 breaker units installed) *On-site delivery: Planned for March 2027	8	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202408	202704
109	Unit-enclosed switchboard	24-kV metal enclosed switchgear (Multi-bus, Distribution line x 6 boxes, Distribution transformer tertiary x 2 boxes, Bus tie x 1 box, Bus device x 1 box, Total of 8 breaker units installed) *On-site delivery: Planned for December 2027	10	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202408	202712

## General material/equipment

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No	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/ Implementation Locations	Scheduled Procurement Date	Delivery Deadline
110	Unit-enclosed switchboard	24-kV metal enclosed switchgear (Multi-bus, Transmission line x 2 boxes, Total of 2 breaker units installed) *On-site delivery: Planned for August 2028	2	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202408	202810
111	Unit-enclosed switchboard	24-kV metal enclosed switchgear (Multi-bus, Transmission line x 3 boxes, Bus tie box x 1 box, Station primary box x 1 box, Bus / GPT box x 2 boxes, Total of 5 breaker units installed) *On-site delivery: Planned for August 2028	7	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202408	202810
112	Unit-enclosed switchboard	Station GPT box, Distribution transformer secondary box, Distribution line box x 3 Bus tie distribution line box, NGR box	7	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202409	202610
113	Unit-enclosed switchboard	22-kV SWG Main distribution box, Tr distribution box, Mtr tertiary box (CB / GPT / LA / SA), HTr (1) box (400 V), HTr (2) box (200 V)	5	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202411	202611
114	Unit-enclosed switchboard	6-kV switchgear (Indoor: For No. 1B) Breakdown: Distribution transformer secondary x 1, Station GPT x 1, Distribution line x 3, Bus tie distribution line [DS integrated] x 1	6	box	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202408	202704No.2B:20
115	Unit-enclosed switchboard	6-kV switchgear (Indoor: For No. 2B) Breakdown: Distribution transformer secondary x 1, Station GPT x 1, Distribution line x 4, Bus tie [CB integrated] x 1	7	box	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202409	202704No.2B:20
116	Other switchboards	Energy management system (EMS) (including PCS for pseudo inertia force function (4 MW), UPS for black start, and PCS container)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202409	202612
117	Other switchboards	APC modification	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202406	202612
118	Other switchboards	Energy management system (EMS) modification	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202406	202612
119	Other switchboards	Intrusion alarm system control panel: 1 panel, Outdoor sensor: 28 sets, Installation and adjustment cost: 1 set	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202406	202509

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No	Item Name	Article Name/Construction Name/Work Task Name	Qty.	Unit	Delivery/Construction/Implementation Locations	Scheduled Procurement Date	Delivery Deadline
120	Other switchboards	Station DC panel x 2 panels, Station AC panel x 2 panels, Station failure indicator panel x 1 panel, Panel used to stop and/or shut down all operations x 1 panel, 110 kV PD automatic switchboard x 2 panels, 66 kV PD automatic switchboard x 1 panel, Station power supply switching box x 2 boxes, Relay terminal box x 5 boxes	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202407	202604
121	Other switchboards	Station GPT panel, Distribution transformer secondary LA, Distribution line panel 1/2 (8F) Mobile device junction box 1/2, Future use 1/2	7	box	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202406	202605
122	Other power equipment	SVC control protective panel x 1 panel, Cooling system control panel x 3 panels, Installation and adjustment cost	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202405	202709
123	Transmission lines protectors	PCM2 system + DZDG	3	panel	Location specified by Chugoku Electric Transmission & Distribution(Hiroshima Pref.)	202411	202701
124	Monitoring control system	IP-DCS (1 TC panel, 20 BCU panels)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202408	202603
125	Monitoring control system	Substation supervisory and control equipment delivered for FY 2028 and 2029	28	unit	Location specified by Chugoku Electric Transmission & Distribution	202407	203003
126	Monitoring control system	Grid traffic management system to respond to grid traffic management in the Japanese version of "connect and manage"	1	set	Location specified by Chugoku Electric Transmission & Distribution	202408	202701
127	Remote monitoring control system	IP-type dispersion supervisory and control equipment	26	panel	Location specified by Chugoku Electric Transmission & Distribution(Yamaguchi Pref.)	202404	202605
128	Civil engineering control system	- Set including dam operation support device and remote operation console Operation console 1 and 2, I/O relay device A and B, Information transmission device, Surveillance monitor, Printer, Maintenance PC, Dam operation support device, 1 set of installation and adjustment cost	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202412	202703

### General material/equipment

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129	Other communication equipment	IP device (model and specs under consideration)	1	set	Location specified by Chugoku Electric Transmission & Distribution	202403	202603
130	Devices for internal combustion power generation	Engine control panel (Installation and adjustment)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202404	202509
131	Storage batteries	Redox-flow cell (4 MW, 12.5 MWh)	1	set	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202409	202612
132	Generator vehicles	High-voltage generator vehicle, 500 kVA	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Shimane Pref.)	202406	202512
133	Generator vehicles	High-voltage generator vehicle, 1,000 kVA	1	unit	Location specified by Chugoku Electric Transmission & Distribution(Okayama Pref.)	202412	202606