FIG. 1

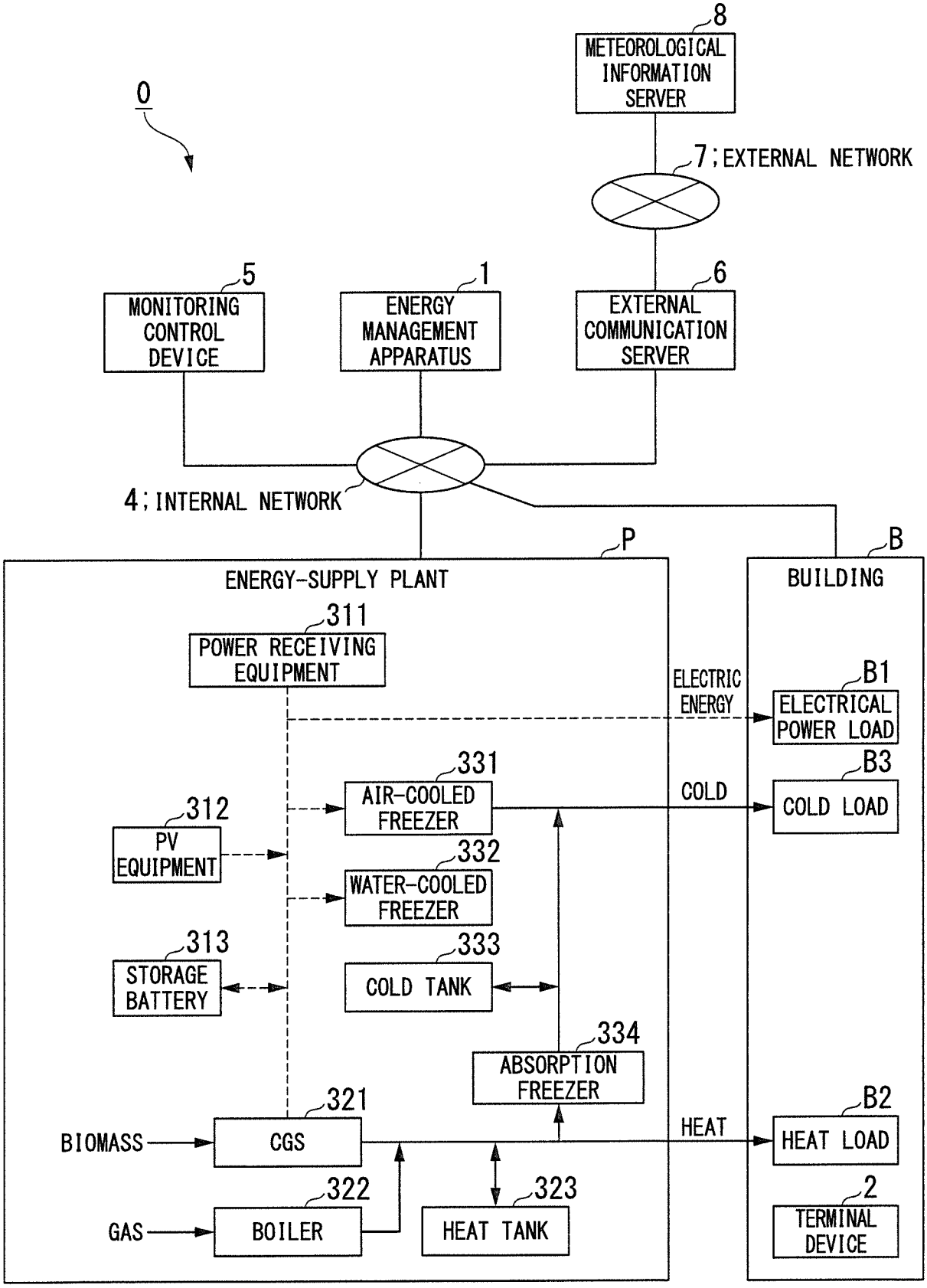

0
8
METEOROLOGICAL INFORMATION SERVER
7; EXTERNAL NETWORK
5
MONITORING CONTROL DEVICE
1
ENERGY MANAGEMENT APPARATUS
6
EXTERNAL COMMUNICATION SERVER
4; INTERNAL NETWORK
P
ENERGY-SUPPLY PLANT
B
BUILDING
311
POWER RECEIVING EQUIPMENT
ELECTRIC ENERGY
B1
ELECTRICAL POWER LOAD
331
AIR-COOLED FREEZER
COLD
B3
COLD LOAD
312
PV EQUIPMENT
332
WATER-COOLED FREEZER
313
STORAGE BATTERY
333
COLD TANK
334
ABSORPTION FREEZER
321
BIOMASS
CGS
HEAT
B2
HEAT LOAD
322
GAS
BOILER
323
HEAT TANK
2
TERMINAL DEVICE

FIG. 2

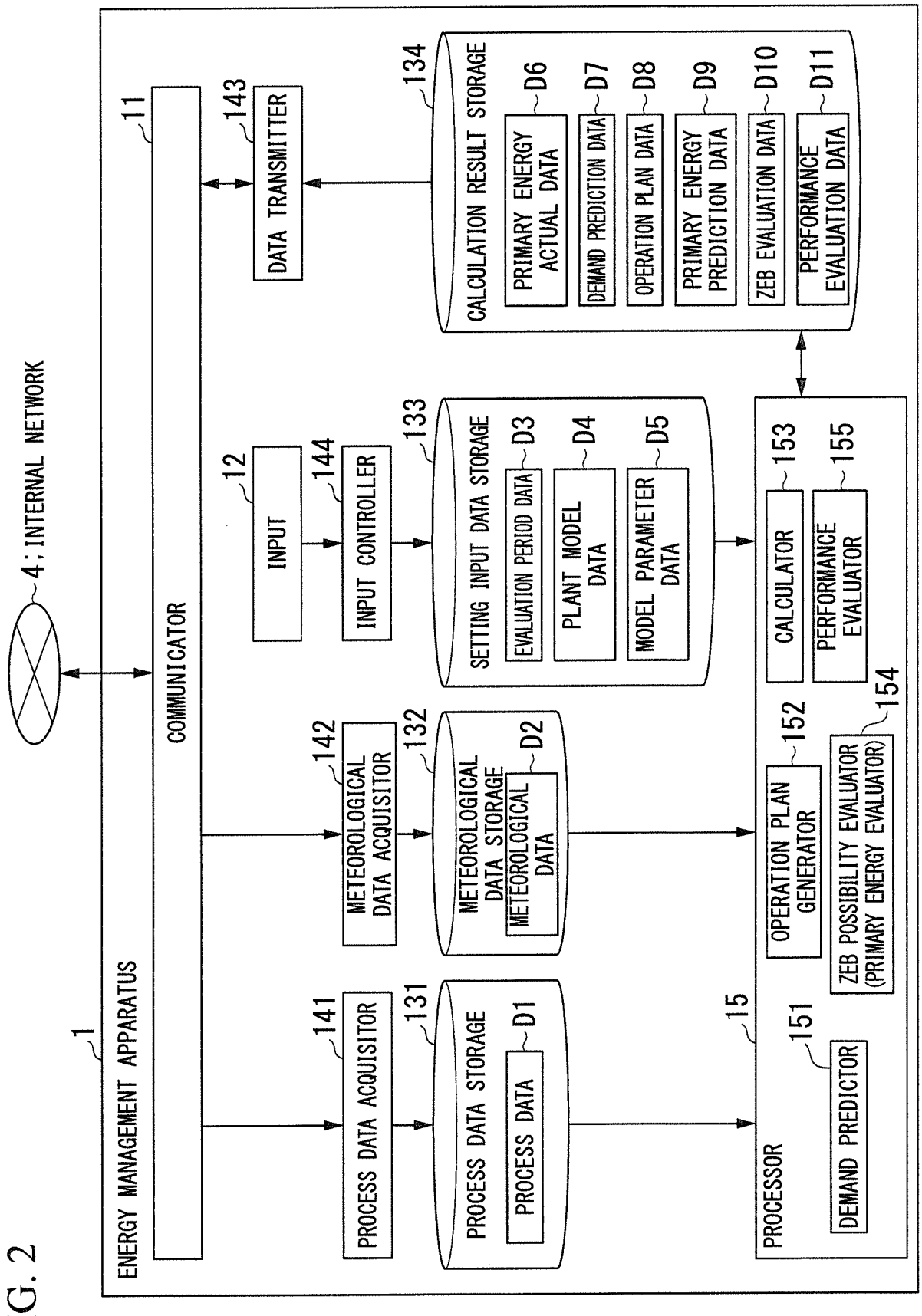

4; INTERNAL NETWORK
1
ENERGY MANAGEMENT APPARATUS
11
COMMUNICATOR
143
DATA TRANSMITTER
134
CALCULATION RESULT STORAGE
D6
PRIMARY ENERGY ACTUAL DATA
D7
DEMAND PREDICTION DATA
D8
OPERATION PLAN DATA
D9
PRIMARY ENERGY PREDICTION DATA
D10
ZEB EVALUATION DATA
D11
PERFORMANCE EVALUATION DATA
12
INPUT
144
INPUT CONTROLLER
133
SETTING INPUT DATA STORAGE
D3
EVALUATION PERIOD DATA
D4
PLANT MODEL DATA
D5
MODEL PARAMETER DATA
142
METEOROLOGICAL DATA ACQUISITOR
132
METEOROLOGICAL DATA STORAGE
D2
METEOROLOGICAL DATA
141
PROCESS DATA ACQUISITOR
131
PROCESS DATA STORAGE
D1
PROCESS DATA
15
PROCESSOR
151
DEMAND PREDICTOR
152
OPERATION PLAN GENERATOR
154
ZEB POSSIBILITY EVALUATOR (PRIMARY ENERGY EVALUATOR)
153
CALCULATOR
155
PERFORMANCE EVALUATOR

FIG. 3

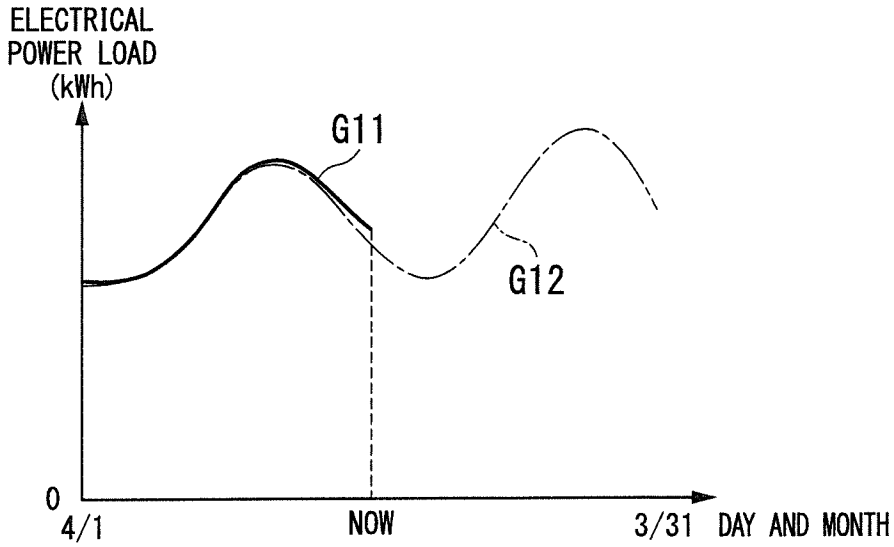


FIG. 4

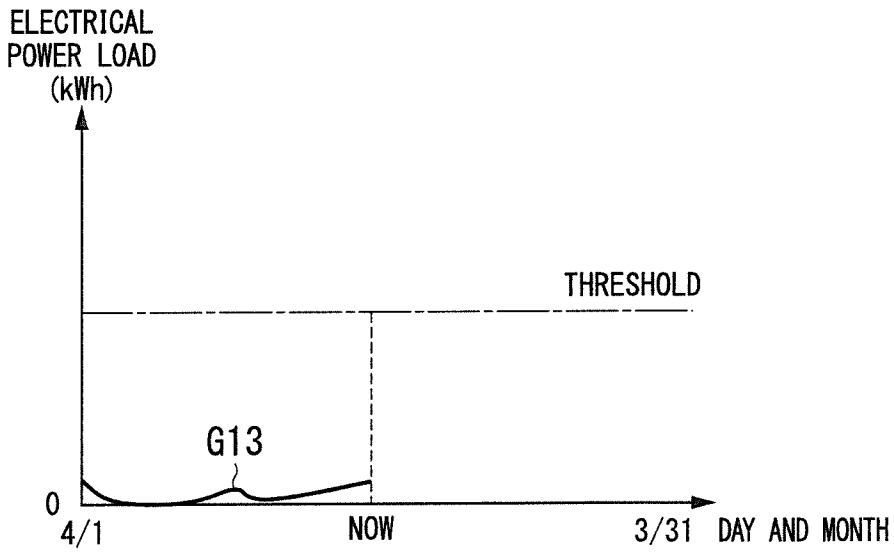


FIG. 5

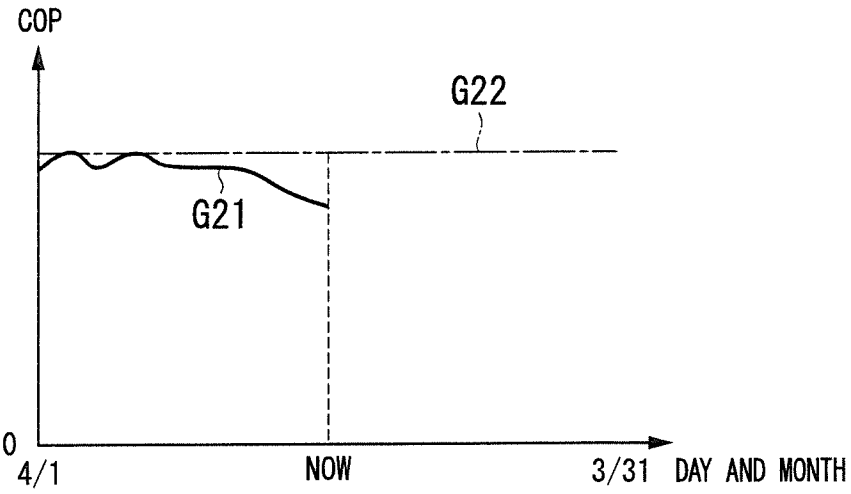


FIG. 6

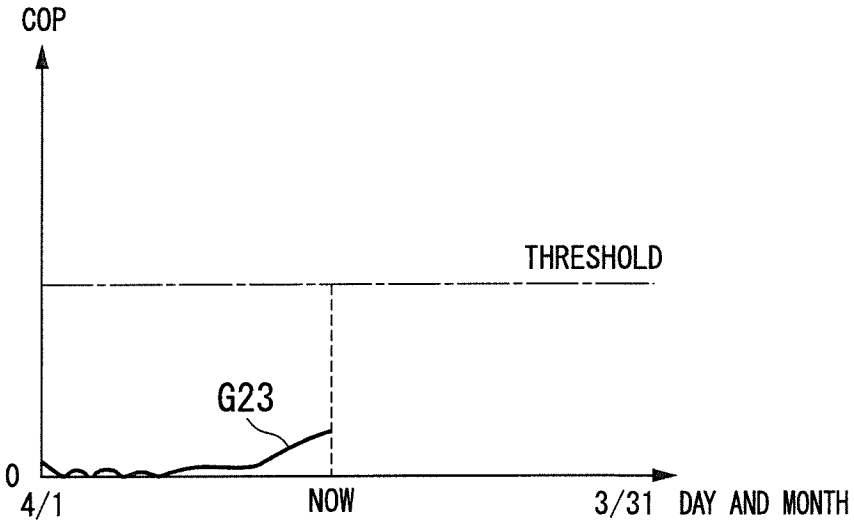

COP
THRESHOLD
G23
0
4/1
NOW
3/31
DAY AND MONTH

FIG. 7

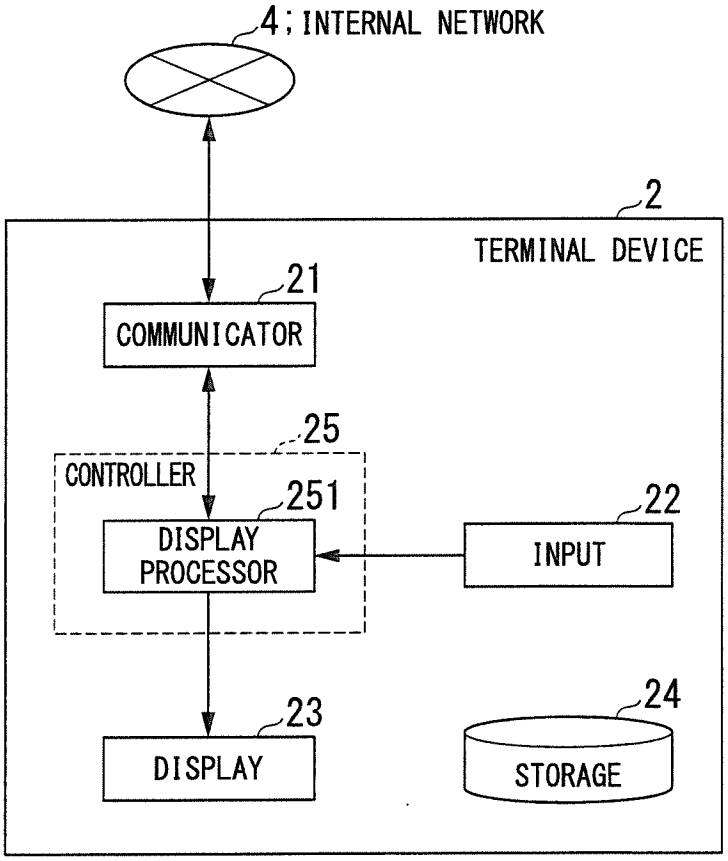

4; INTERNAL NETWORK
2
TERMINAL DEVICE
21
COMMUNICATOR
25
CONTROLLER
251
DISPLAY PROCESSOR
22
INPUT
23
DISPLAY
24
STORAGE

FIG. 8

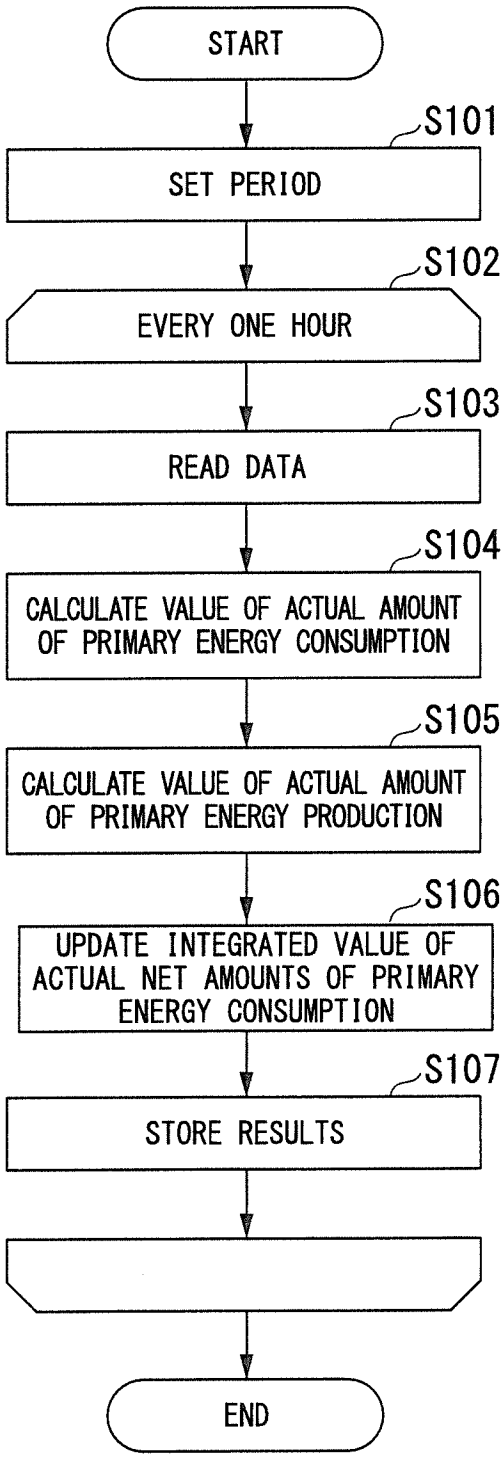

START
S101
SET PERIOD
S102
EVERY ONE HOUR
S103
READ DATA
S104
CALCULATE VALUE OF ACTUAL AMOUNT OF PRIMARY ENERGY CONSUMPTION
S105
CALCULATE VALUE OF ACTUAL AMOUNT OF PRIMARY ENERGY PRODUCTION
S106
UPDATE INTEGRATED VALUE OF ACTUAL NET AMOUNTS OF PRIMARY ENERGY CONSUMPTION
S107
STORE RESULTS
END

FIG.9

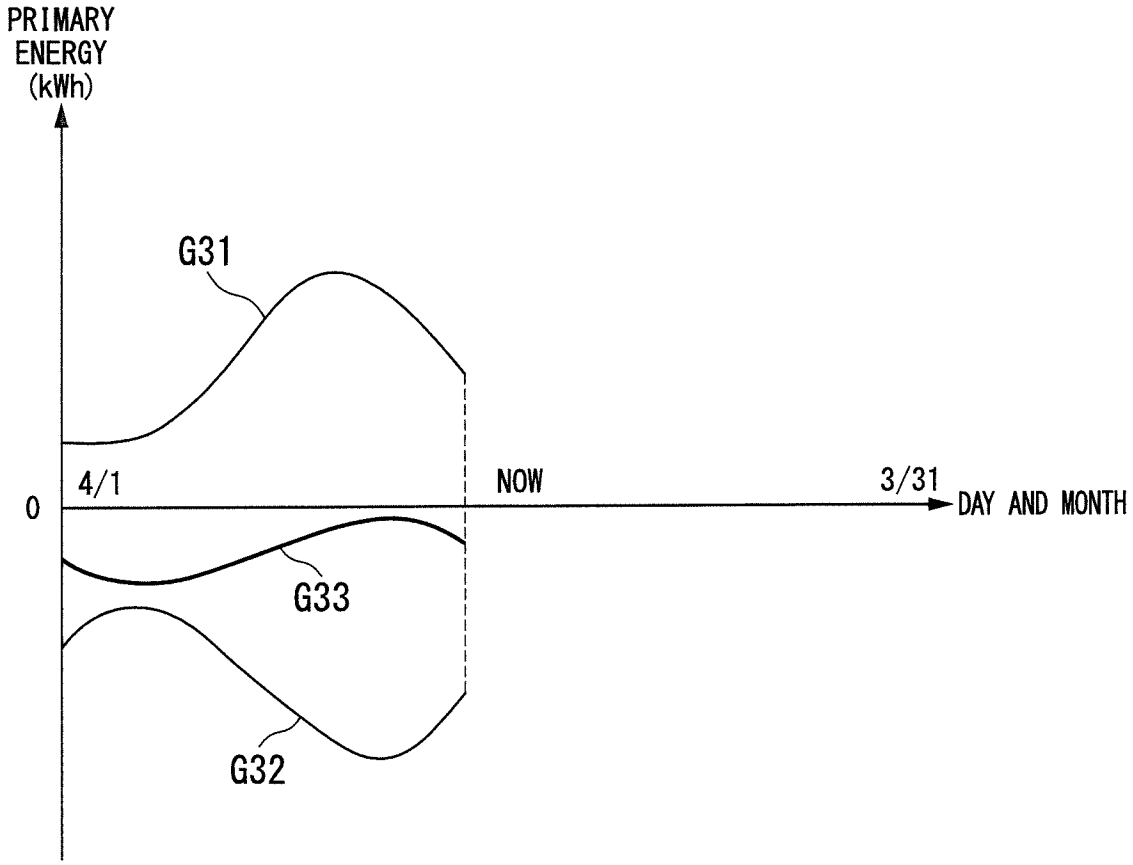


FIG. 10

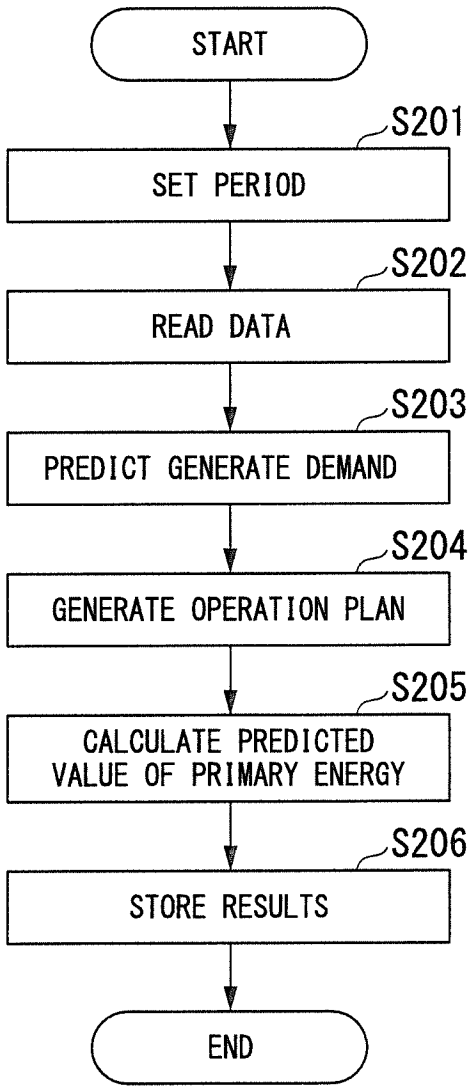

START
S201
SET PERIOD
S202
READ DATA
S203
PREDICT GENERATE DEMAND
S204
GENERATE OPERATION PLAN
S205
CALCULATE PREDICTED VALUE OF PRIMARY ENERGY
S206
STORE RESULTS
END

FIG. 11

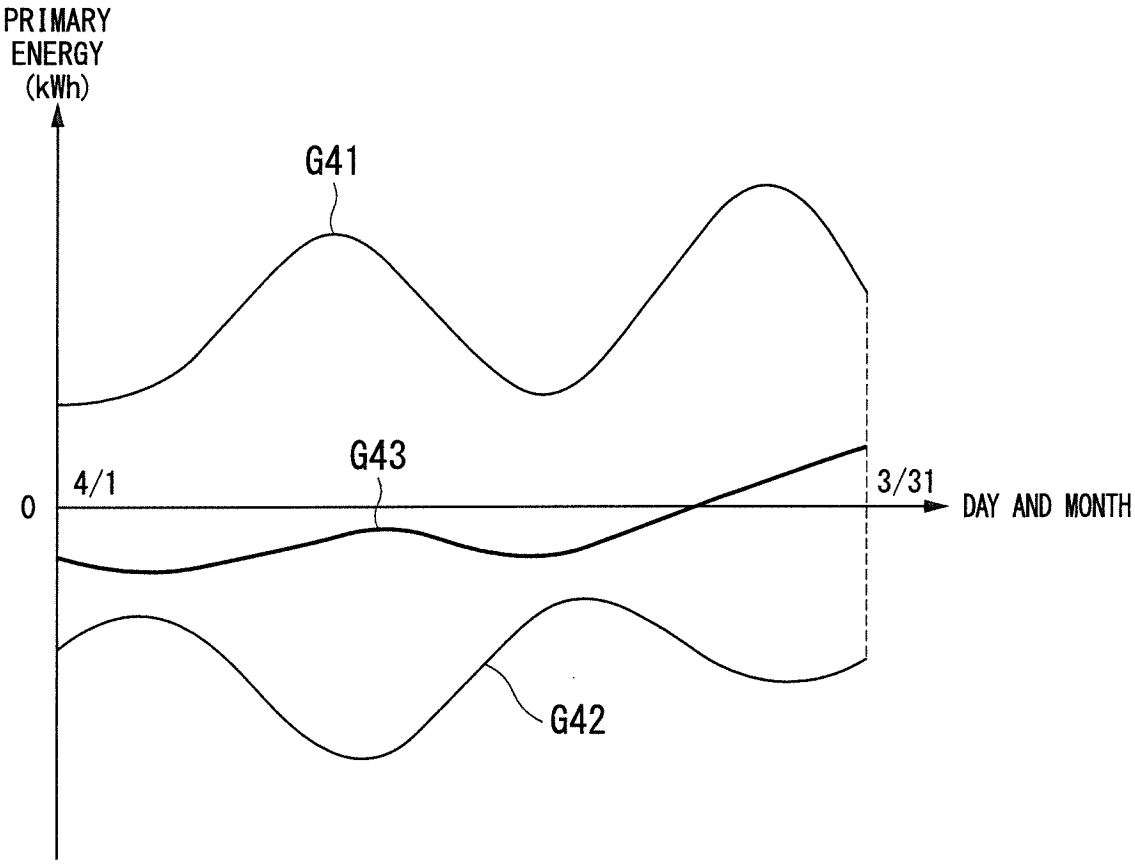


FIG. 12

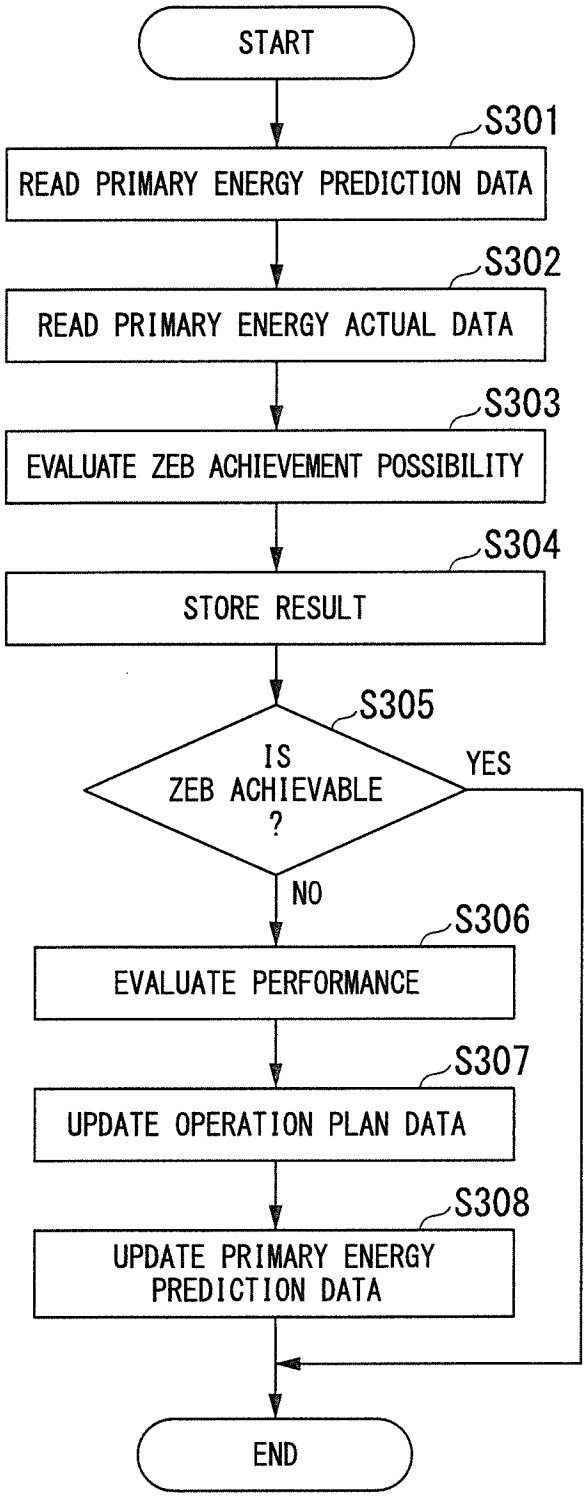

START
S301
READ PRIMARY ENERGY PREDICTION DATA
S302
READ PRIMARY ENERGY ACTUAL DATA
S303
EVALUATE ZEB ACHIEVEMENT POSSIBILITY
S304
STORE RESULT
S305
IS ZEB ACHIEVABLE ?
YES
NO
S306
EVALUATE PERFORMANCE
S307
UPDATE OPERATION PLAN DATA
S308
UPDATE PRIMARY ENERGY PREDICTION DATA
END

FIG. 13

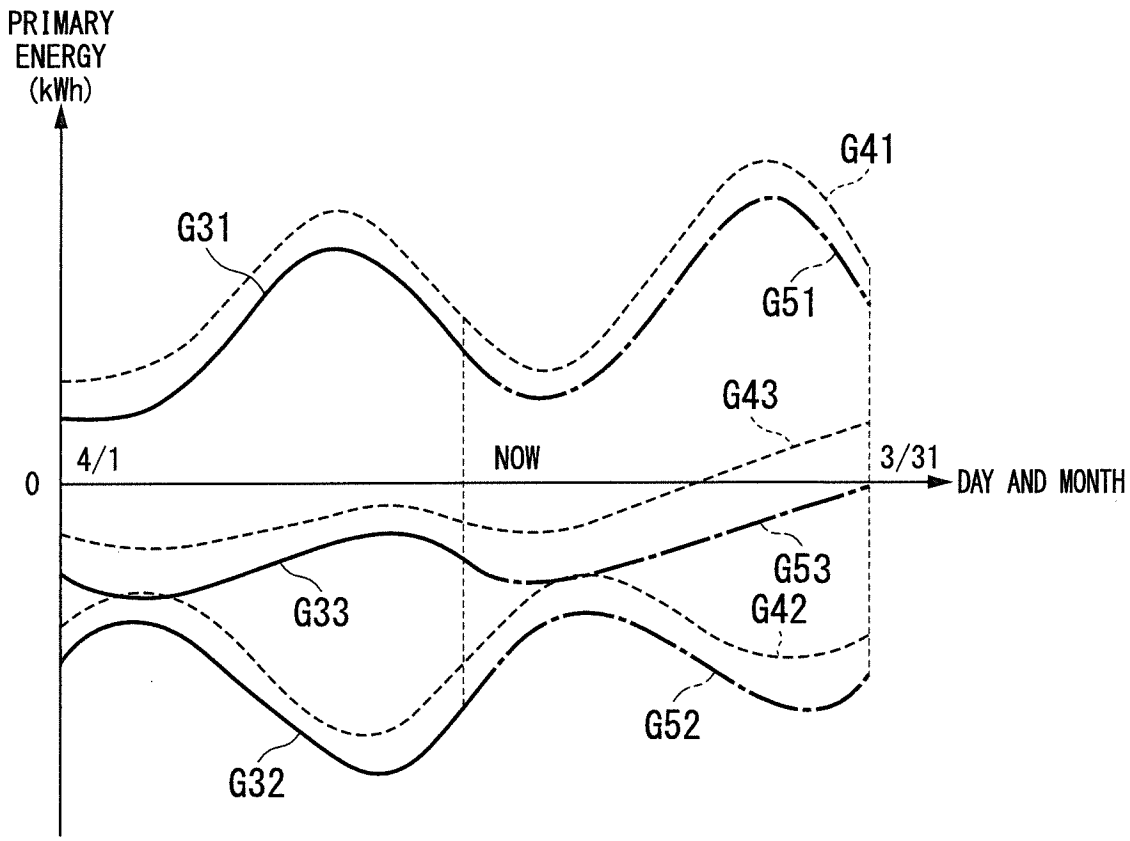

PRIMARY
ENERGY
(kWh)
G41
G31
G51
G43
4/1
NOW
3/31
0
DAY AND MONTH
G53
G33
G42
G52
G32

FIG. 14

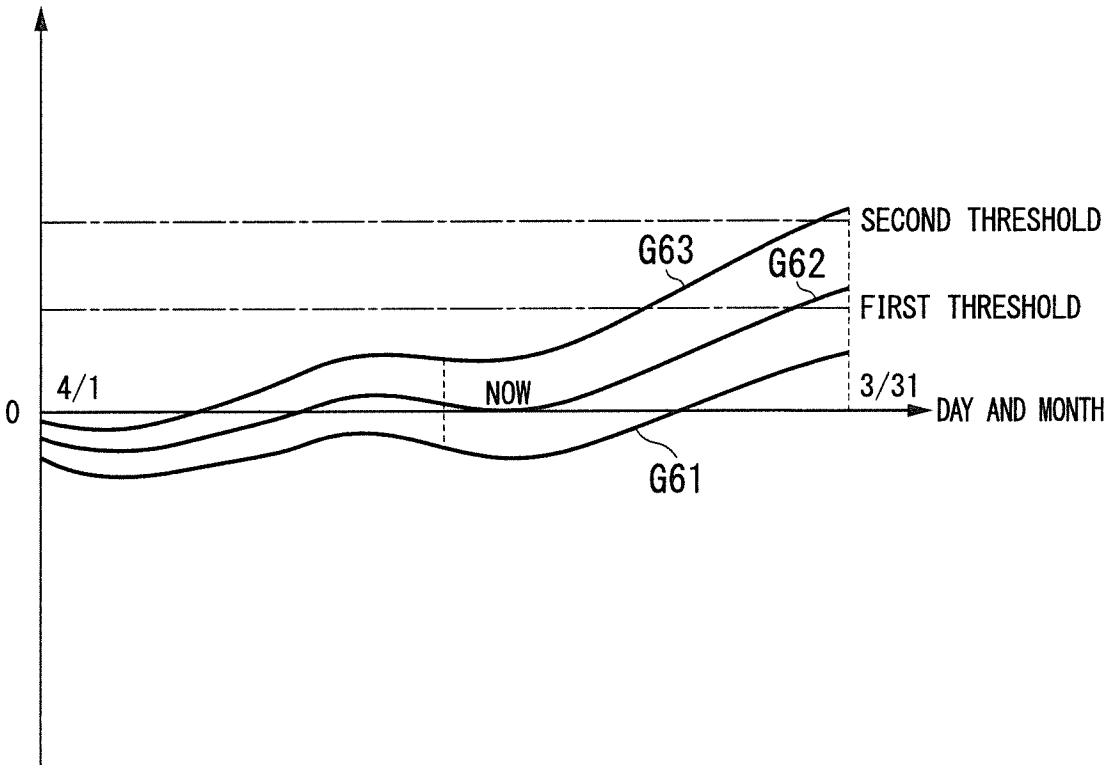
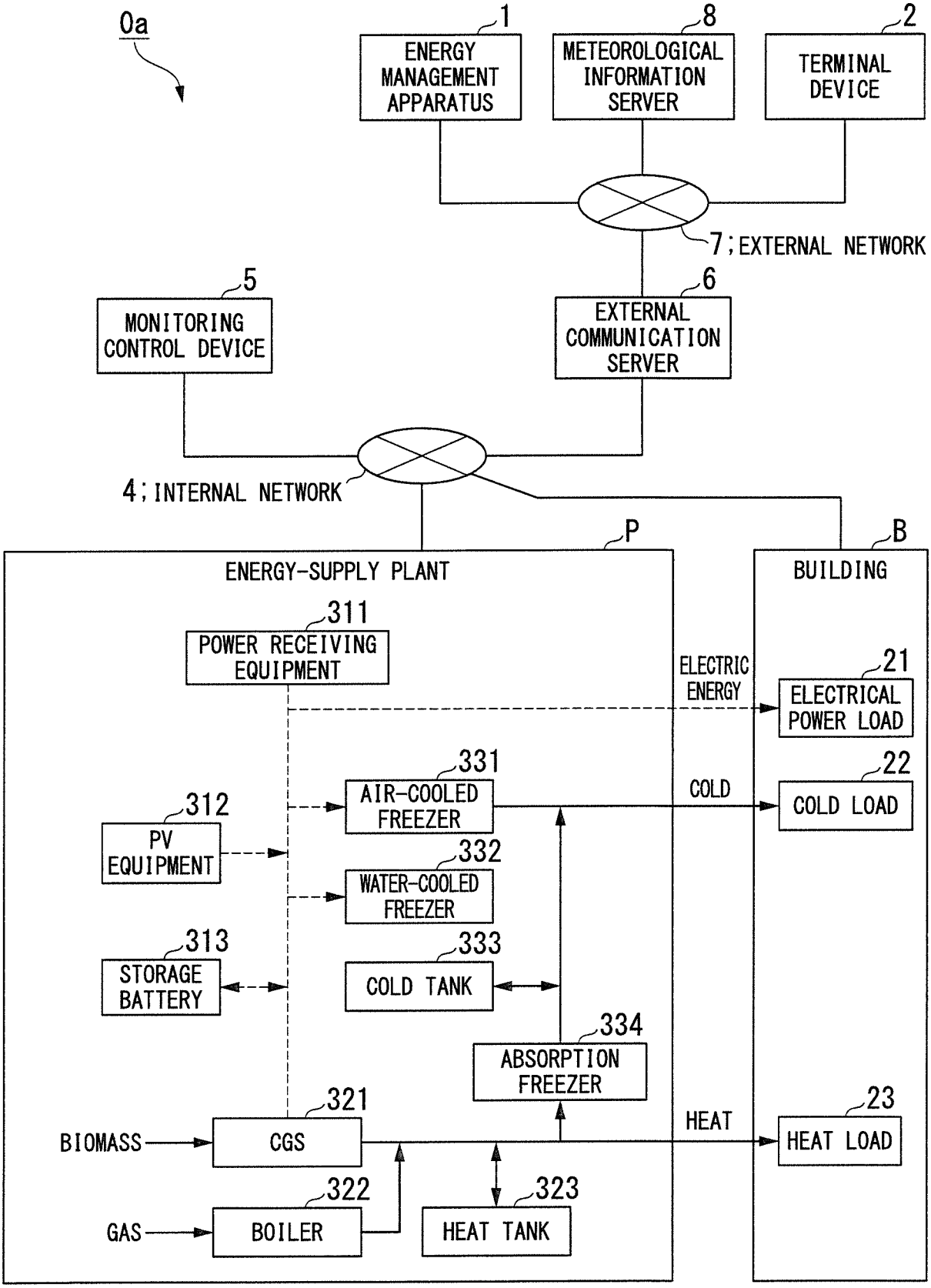

SECOND THRESHOLD
G63
G62
FIRST THRESHOLD
4/1
NOW
3/31
0
DAY AND MONTH
G61

FIG. 15


0a
1
ENERGY MANAGEMENT APPARATUS
8
METEOROLOGICAL INFORMATION SERVER
2
TERMINAL DEVICE
7; EXTERNAL NETWORK
5
MONITORING CONTROL DEVICE
6
EXTERNAL COMMUNICATION SERVER
4; INTERNAL NETWORK
P
ENERGY-SUPPLY PLANT
B
BUILDING
311
POWER RECEIVING EQUIPMENT
ELECTRIC ENERGY
21
ELECTRICAL POWER LOAD
331
AIR-COOLED FREEZER
COLD
22
COLD LOAD
312
PV EQUIPMENT
332
WATER-COOLED FREEZER
313
STORAGE BATTERY
333
COLD TANK
334
ABSORPTION FREEZER
321
BIOMASS
CGS
HEAT
23
HEAT LOAD
322
GAS
BOILER
323
HEAT TANK