12.17 Table: DISPATCHLOAD

12.17.1 DISPATCHLOAD

Name	DISPATCHLOAD
Comment	DISPATCHLOAD set out the current SCADA MW and target MW for each dispatchable unit, including relevant Frequency Control Ancillary Services (FCAS) enabling targets for each five minutes and additional fields to handle the new Ancillary Services functionality. Fast Start Plant status is indicated by dispatch mode.

12.17.2 Description

DISPATCHLOAD data is confidential for the current day, showing own details for participant and becomes public after close of business yesterday, and is available to all participants.

Source

DISPATCHLOAD shows data for every 5 minutes for all units, even zero targets.

Volume

Expect 40-50,000 records per day. All units are repeated, even zero targets.

Note

** A flag exists for each ancillary service type such that a unit trapped or stranded in one or more service type can be immediately identified. The flag is defined using the low 3 bits as follows:

Flag Name	Bit	Description
Enabled	0	The unit is enabled to provide this ancillary service type.
Trapped	1	The unit is enabled to provide this ancillary service type, however the profile for this service type is causing the unit to be trapped in the energy market.
Stranded	2	The unit is bid available to provide this ancillary service type, however, the unit is operating in the energy market outside of the profile for this service type and is stranded from providing this service.

Interpretation of the bit-flags as a number gives the following possibilities (i.e. other combinations are not possible):

Numeric Value	Bit (2,1,0)	Meaning
0	000	Not stranded, not trapped, not enabled (i.e. is unavailable).
1	001	Not stranded, not trapped, is enabled (i.e. available).
3	011	Not stranded, is trapped, is enabled (i.e. trapped).
4	100	Is stranded, not trapped, not enabled (i.e. stranded).

For example, testing for availability can be done by checking for odd (=available) or even (=unavailable) number (e.g. `mod(flag,2)` results in 0 for unavailable and 1 for available).

*** "Actual FCAS availability" is determined in a post-processing step based on the energy target (TotalCleared) and bid FCAS trapezium for that interval. However, if the unit is outside the bid FCAS trapezium at the start of the interval (InitialMW), the "Actual FCAS availability" is set to zero. For regulation services, the trapezium is the most restrictive of the bid/SCADA trapezium values.

12.17.3 Notes

Name	Comment	Value
Visibility	Data in this table is:	Private; Public Next-Day

12.17.4 Primary Key Columns

Name
DUID
INTERVENTION
RUNNO
SETTLEMENTDATE

12.17.5 Index Columns

Name
LASTCHANGED

12.17.6 Index Columns

Name
DUID
LASTCHANGED

12.17.7 Content

0: D
1: DISPATCH
2: UNIT_SOLUTION

Name	Data Type	Mandatory	Comment
4: SETTLEMENTDATE	datetime	X	Market date and time starting at 04:05
5: RUNNO	numeric(3,0)	X	Dispatch run no; always 1
6: DUID	varchar(10)	X	Dispatchable unit identifier
7: TRADETYPE	numeric(2,0)		Not used
8: DISPATCHINTERVAL	numeric(22,0)		Dispatch period identifier, from 001 to 288 in format YYYYMMDDPPP.
9: INTERVENTION	numeric(2,0)	X	Intervention flag if intervention run
10 CONNECTIONPOINTID	varchar(12)		Connection point identifier for DUID
11 DISPATCHMODE	numeric(2,0)		Dispatch mode for fast start plant (0 to 4).
12: AGCSTATUS	numeric(2,0)		AGC Status from EMS * 1 = on * 0 = off
13: INITIALMW	numeric(15,5)		Initial MW at start of period
14: TOTALCLEARED	numeric(15,5)		Target MW for end of period
15: RAMPDOWNRATE	numeric(15,5)		Ramp down rate used in dispatch (lesser of bid or telemetered rate).
16: RAMPUPRATE	numeric(15,5)		Ramp up rate (lesser of bid or telemetered rate).
17: LOWER5MIN	numeric(15,5)		Lower 5 min reserve target
18: LOWER60SEC	numeric(15,5)		Lower 60 sec reserve target
19: LOWER6SEC	numeric(15,5)		Lower 6 sec reserve target
20: RAISE5MIN	numeric(15,5)		Raise 5 min reserve target
21: RAISE60SEC	numeric(15,5)		Raise 60 sec reserve target
22: RAISE6SEC	numeric(15,5)		Raise 6 sec reserve target
23: DOWNEPF	numeric(15,5)		Not Used
24: UPEPF	numeric(15,5)		Not Used
25: MARGINAL5MINVALUE	numeric(15,5)		Marginal $ value for 5 min
26 MARGINAL60SECVALUE	numeric(15,5)		Marginal $ value for 60 seconds
27 MARGINAL6SECVALUE	numeric(15,5)		Marginal $ value for 6 seconds
28: MARGINALVALUE	numeric(15,5)		Marginal $ value for energy
29 VIOLATION5MINDEGREE	numeric(15,5)		Violation MW 5 min
30 VIOLATION60SECDEGREE	numeric(15,5)		Violation MW 60 seconds

VIOLATION6SECDEGREE	numeric(15,5)		Violation MW 6 seconds
VIOLATIONDEGREE	numeric(15,5)		Violation MW energy
LASTCHANGED	datetime		Last date and time record changed
LOWERREG	numeric(15,5)		Lower Regulation reserve target
RAISEREG	numeric(15,5)		Raise Regulation reserve target
AVAILABILITY	numeric(15,5)		Bid energy availability
RAISE6SECFLAGS	numeric(3,0)		Raise 6sec status flag - see
RAISE60SECFLAGS	numeric(3,0)		Raise 60sec status flag - see
RAISE5MINFLAGS	numeric(3,0)		
RAISEREGFLAGS	numeric(3,0)		Raise Reg status flag - see
LOWER6SECFLAGS	numeric(3,0)		Lower 6sec status flag - see
LOWER60SECFLAGS	numeric(3,0)		Lower 60sec status flag
LOWER5MINFLAGS	numeric(3,0)		Lower 5min status flag
LOWERREGFLAGS	numeric(3,0)		Lower Reg status flag - see
RAISEREGAVAILABILITY	numeric(15,5)		RaiseReg availability - minimum of bid and telemetered value
RAISEREGENABLEMENTMAX	numeric(15,5)		RaiseReg enablement max point - minimum of bid and telemetered value
RAISEREGENABLEMENTMIN	numeric(15,5)		RaiseReg Enablement Min point - maximum of bid and telemetered value
LOWERREGAVAILABILITY	numeric(15,5)		Lower Reg availability - minimum of bid and telemetered value
LOWERREGENABLEMENTMAX	numeric(15,5)		Lower Reg enablement Max point - minimum of bid and telemetered value
LOWERREGENABLEMENTMIN	numeric(15,5)		Lower Reg Enablement Min point - maximum of bid and telemetered value
RAISE6SECACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted raise 6sec availability
RAISE60SECACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted raise 60sec availability
RAISE5MINACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted raise 5min availability
RAISEREGACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted raise reg availability
LOWER6SECACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted lower 6sec availability
LOWER60SECACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted lower 60sec availability
LOWER5MINACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted lower 5min availability
LOWERREGACTUALAVAILABILITY	numeric(16,6)		trapezium adjusted lower reg availability
SEMIDISPATCHCAP	numeric(3,0)		Boolean representation flagging if the Target is Capped