

NORDIC EDIEL GROUP

NORDIC CODE LIST LIBRARY

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1 Introduction

The *Nordic Ediel Group Code List Library* shows codes maintained by the Nordic Ediel Group (NEG), used in the Nordic energy market.

NEG seeks to use codes from international standardisation bodies, such as ENTSO-E, ebIX[®] and UN/CEFACT. When the need for a new code turns up and there are no available code issued by a relevant body, NEG will issue a Nordic code, normally having three 3 letters and/or digits, starting with the letter Z. Normally NEG will send a Maintenance Request (MR) asking for a new code from one of the relevant international standardisation bodies. In special circumstances the NEG Znn code may be permanent.

The following code prefixes are normally used:

Ann	ENTSO-E codes
Bnn	ENTSO-E codes
Enn	ebIX [®] codes
Nnn	NorNed codes
xxx	UN/CEFACT codes
Znn	Nordic codes

Where:

n = number

x = number or character

1.1 NTC

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1.2 References

- [1] ENTSO-E code list, see <https://www.entsoe.eu/publications/electronic-data-interchange-ed-library>
- [2] UN/CEFACT Code lists (UNCL), see <http://www.unece.org/trade/untidd/welcome.htm>
- [3] ebIX code list, see <http://www.ebix.org/>
- [4] Nordic code list, see <http://www.ediel.org/>

1.3 Change log

Ver/rel/rev	Changed by	Date	Changes
1.4.A	Ove Nesvik	20170419	<ul style="list-style-type: none"> • Addition of Price category type codes: <ul style="list-style-type: none"> Z01 Buying Z02 Selling Z03 Average • Added Document Type Codes Z20, Z21, Z22 and Z23 • Rephrased Document Type Codes Z12 and Z13 • Updated logos on the front page • Removed NPS
1.3.H	Ove Nesvik	20170213	Textual corrections: <ul style="list-style-type: none"> • Updated logos on the front page • Updated NTC and NEG member list
1.3.G	Ove Nesvik	20161121	Added Document Types: <ul style="list-style-type: none"> Z18 Party Relation Master Data Document where Validity Start and/or Validity End are within the Validity Period” Z19 Party Relation Master Data Document where relations are valid sometime within the Validity Period”
1.3.F	Ove Nesvik	20160629	Addition of Document type Z17 Spot Market Bid Status Report
1.3.E	Ove Nesvik	20160525	Addition of Z99 Sub-Grid Area
1.3.D	Ove Nesvik	20150904	MGA type “ Z02 Only losses” is deprecated
1.3.C	Ove Nesvik	20150623	Addition of Business type Z68 Production Unit own consumption
1.3.B	Ove Nesvik	20150519	Rename of Production Unit Type code to Production Type code
1.3.A	Ove Nesvik	20150503	Addition of Production unit type code and the codes <ul style="list-style-type: none"> Z01 Normal Z02 Minor
1.2.A	Ove Nesvik	20150421	Addition of MGA Type: <ul style="list-style-type: none"> Z07 Transmission (main/central) grid
Draft 1.2.A	Ove Nesvik	20150130	Addition of Asset Type: <ul style="list-style-type: none"> Z07 Consumption” Addition of Object aggregation: <ul style="list-style-type: none"> Z01 Generator group
Draft 1.2.A	Ove Nesvik	20141001	Addition of Reason codes Z29-Z39
Draft 1.2.A	Ove Nesvik	20140717	Deprecation of Business Type Codes: <ul style="list-style-type: none"> Z53 (B14) Production deviation Z54 (B15) Consumption deviation Z55 (B20) Balance up regulation price Z56 (B21) Balance down regulation price

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1.3.E	Ove Nesvik	20160525	Addition of Z99 Sub-Grid Area
1.3.D	Ove Nesvik	20150904	MGA type “ Z02 Only losses” is deprecated
			<ul style="list-style-type: none"> Z57 (B22) Main direction Z58 (B23) Consumption imbalance price Z59 (B24) Production sales imbalance price Z60 (B25) Production purchase imbalance price Z61 (B26) Average balance price between MBAs Z62 (B27) Pumped Z63 (B28) Large installation consumption Z65 (B29) MGA imbalance
1.1.A	Ove Nesvik	20140422	Addition of Business Type codes: <ul style="list-style-type: none"> Z55 Balance up regulation price Z56 Balance down regulation price Z57 Main direction Z58 Consumption imbalance price Z59 Production sales imbalance price Z60 Production purchase imbalance price Z61 Middle balance price between MBAs Z62 Pumped Z63 Large installation consumption Z64 Internal trade difference Z65 MGA imbalance Addition of Document Type codes: <ul style="list-style-type: none"> Z10 Connected Metering Grid Area (MGA) document Z11 Market Balance Area (MBA) structure document Addition of new code list, Type of Area code: <ul style="list-style-type: none"> Z01 Market Balance Area (MBA) Z02 Metering Grid Area (MGA)
1.0.B	Ove Nesvik	20140207	Addition of Bid Type Code:

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1.3.F	Ove Nesvik	20160629	Addition of Document type Z17 Spot Market Bid Status Report
1.3.E	Ove Nesvik	20160525	Addition of Z99 Sub-Grid Area
1.3.D	Ove Nesvik	20150904	MGA type “ Z02 Only losses” is deprecated
			<ul style="list-style-type: none"> Z04 Profile block bid Addition of Business Type Codes: <ul style="list-style-type: none"> Z53 Production deviation Z54 Consumption deviation
1.0.A	Ove Nesvik	20131212	First approved version

2 Nordic extensions to ENTSO-E code lists

2.1 Asset type code

	Name	Description
Z01	Busbar	A connection point in an electricity grid
Z02	Split busbar	A busbar that may exist in two or more Market balance areas
Z03	Transformer station	A resource that can transform voltage
Z04	Thermal	A resource using Thermal for energy
Z05	Wind	A resource using Wind for energy
Z06	Hydro	A resource using Hydro for energy
Z07	Consumption	A consumption resource that can be used for balancing purpose

2.2 Business type code

	Name	Description
N03	In-feed ATC	Available transfer capacity at the in-feed side of a tie-line or cable (i.e. into the cable, out from sending area) (E.g. used in the NorNed project)
N04	Out-feed ATC	Available transfer capacity at the out-feed side of a tieline or cable, i.e. after subtraction of grid loss. (i.e. out of the cable, into receiving area) (E.g. used in the NorNed project)
Z01		Deprecated
Z02	Frequency bias (Primary reserves)	<i>Frequency bias</i> is change ability in production dependent on the frequency of the network (MW/Hz). Note: Definitions of <i>Frequency bias</i> , <i>FCR-D</i> and <i>FCR-N</i> are under discussion within ENTSO-E, i.e. Z02 must be seen as a temporary code.
Z03	Frequency Containment Reserves, Normal (FCR-N)	FCR-N <i>Frequency Containment Reserves, Normal</i> (earlier FNR , <i>Frequency Control Reserve</i>) is operating reserves activated for stabilizing System Frequency after an imbalance. FCR-N is an energy reserve that is automatically activated in both directions around a set point when the frequency varies between 50.10 Hz and 49.90 Hz. Note: Definitions of <i>Frequency bias</i> , <i>FCR-D</i> and <i>FCR-N</i> are under discussion within ENTSO-E, i.e. Z03 must be seen as a temporary code.
Z04		Deprecated
Z05	Net internal trade counterpart	Net internal trade as reported from the counterpart, used during matching procedure.
Z06	Frequency Containment Reserves, Disturbance (FCR-D)	<i>Frequency Containment Reserves, Disturbance</i> (earlier FDR , <i>Frequency Control Disturbance Reserve</i>) is operating reserves activated for stabilizing System Frequency after an imbalance. FCR-D is an energy reserve that is automatically activated when the frequency falls below 49.90 Hz.

		Note: Definitions of <i>Frequency bias</i> , <i>FCR-D</i> and <i>FCR-N</i> are under discussion within ENTSO-E, i.e. Z06 must be seen as a temporary code.
Z07		Deprecated
Z08	Trade, unconfirmed	The trade plan of an actor when not matched against a counterpart, used during matching procedure.
Z09		Deprecated
Z10		Deprecated
Z11		Deprecated
Z12	Total primary reserve	Sum of all primary reserves
Z13	Balance regulation activations	Activations of tertiary reserves in the Balance regulation market
Z14	System operator adjustment	Proposed adjustment by the <i>System operator</i> , used during matching procedure.
Z15	Result of an automatic System operator adjustment	Forced adjustment by the <i>System operator</i> , used during matching procedure.
Z16	Market schedules difference	Difference between own and counterparty market schedules, used during matching procedure.
Z17	Technical minimum	Technical minimum possible, under minimum, Resource Object having the possibility of using overload areas.
Z18	Technical maximum	Technical maximum possible, maximum incl. overload, Resource Object having the possibility of using overload areas.
Z19	Total maximum production	Schedule for maximum total production.
Z20	Total minimum production	Schedule for minimum total production.
Z21	Total Transfer Capacity (TTC)	The <i>Total Transfer Capacity</i> is the maximum exchange program between two areas compatible with operational security standards applicable at each system if future network conditions, generation and load patterns were perfectly known in advance.
Z22	Maximum production capacity	Maximum total value of planned production.
Z23	Minimum production capacity	Minimum total value of planned production
Z24	Peak load resource	Peak load resource refers to power plants which produce electricity using condensing power capacity covered by the power load reserve arrangement and may also refer to disconnectable consumption.
Z25		Deprecated
Z26		Deprecated
Z27	Operational capacity (OC)	<i>Operational capacity</i> is exchanged between <i>System operators</i> . The OC is the available transfer capacity as established during the operational day, i.e. the capacity available after closure of the intra-day market. The OC is used for system operation and not for market purposes. The OC may be both higher and lower than the ATC. The OC may be negative. <i>This is a permanent Nordic code.</i>
Z28	Balance regulation power	Offered tertiary reserves to the Balance regulation market
Z29	Reserves option power	Offered tertiary reserves to the Reserves option market
Z30		Deprecated
Z31		Deprecated
Z32	System price	The time series provides the system price, which is calculated as the price that will be realised if there are no congestions between Market balance areas.

Z33		Deprecated
Z34		Deprecated
Z35	Commercial bid	The time series provides commercial bids.
Z36	Reserve bid	The time series provides reserve bids.
Z37	Primary reserves activations	Activations of primary reserves
Z38	Hydro production	The business being described concerns production based on hydro power
Z39	Nuclear production	The business being described concerns production based on nuclear power
Z40	Thermal production	The business being described concerns production based on thermal power
Z41	Wind production	The business being described concerns production based on wind power
Z42	Decentralised production	The business being described concerns production based on decentralised power
Z43	Gas turbine and diesel production	The business being described concerns production based on gas turbine and diesel power
Z44	Other thermal production	The business being described concerns production based on other thermal power
Z45	Disturbance on the Link	Nordic code (currently used by SwePol)
Z46	System Operator redispatching, in case of ASP special	Nordic code (currently used by SwePol)
Z47	Loop Flow	Nordic code (currently used by SwePol)
Z48	Number of return cables	Nordic code (currently used by SwePol)
Z49		Deprecated
Z50	Commercial wind production	The time series provides commercial bids based on wind production
Z51		Deprecated
Z52	Small scale production	Production from small scale production plants
Z53		Deprecated
Z54		Deprecated
Z55		Deprecated
Z56		Deprecated
Z57		Deprecated
Z58		Deprecated
Z59		Deprecated
Z60		Deprecated
Z61		Deprecated
Z62		Deprecated
Z63		Deprecated
Z64	Internal trade difference	A time series concerning internal trade difference, within a Market balance area, i.e. the difference between trades reported from an out party (seller) and an in party (buyer). The internal trade difference is the delta value between what is reported by the two Balance responsible Parties.
Z65		Deprecated
Z66	Last resort	A time series concerning consumption handled by supplier of last resort
Z67	TRM	Transmission Reliability Margin
Z68	Production Units own consumption	The consumption of one or more Production Units

2.3 Document type code

	Name	Description
Z01		Deprecated
Z02		Deprecated
Z03	Auction Specification Document	The document provides auction specification information.
Z04	Operational schedule, binding	The document provides binding operational (resource) schedules from the System operator, after market cut-off time.
Z05	Area specification document	The document is used to specify physical area boundary connections.
Z06	Market connection points document	A document specifying connection point and related area where the connection point belongs.
Z07	Rate of exchange document	A document used to distribute Rate of exchange
Z08	Intermediate Confirmation of Aggregate metered data from the Metered Data Aggregator	Intermediate Confirmation of Aggregated Data per Neighbouring Grid from Imbalance Settlement Responsible to Metered Data Aggregator
Z09	Final Confirmation of Aggregate metered data from the Metered Data Aggregator	Final Confirmation of Aggregated Data per Neighbouring Grid from Imbalance Settlement Responsible to Metered Data Aggregator
Z10	Connected Metering Grid Area (MGA) document	A document listing Metering Grid Areas (MGA) a MGA is connected to
Z11	Market Balance Area (MBA) Master Data document	A document listing Metering Grid Areas (MGA) that a Market Balance Area (MBA) consist of
Z12	Request change of retailer consumption master data	A document requesting changes to retailer consumption master data, sent from an Entitled Role to the Imbalance Settlement Responsible
Z13	Request change of Resource Object master data	Resource Object master data document where Validity Start and/or Validity End date are changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)A document containing master data for a Resource Object
Z14	Bilateral Trade Structure Document	A document listing Bilateral Trade IDs
Z15	DATCR activation, move (change) of planned production	
Z16	Generator Group, Generator Relations document	A document containing master data for Generator Group and Generator Relations
Z17	Spot Market Bid Status Report	A document containing a Bid Status from the Spot Market
Z18	Party Relation Master Data Document containing master data changed within the Validity Time Interval	Party Relation Master Data Document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z19	Party Relation Master Data Document containing all valid master data within the Validity Time Interval	Party Relation Master Data Document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z20	Retailer consumption master data document containing master data changed within the Validity Time Interval	Retailer consumption master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)

Z21	Retailer consumption master data document containing all valid master data within the Validity Time Interval	Retailer consumption master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z22	Resource Object master data document containing master data changed within the Validity Time Interval	Resource Object master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z23	Resource Object master data document containing all valid master data within the Validity Time Interval	Resource Object master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)

2.4 Object aggregation code

	Name	Description
Z01	Generator group	The object being described concerns a group of Reserve objects or Resource objects

2.5 Price category type code

	Name	Description
Z01	Buying	The price for buying commodities in the market.
Z02	Selling	The price for selling commodities in the market.
Z03	Average	Average, i.e. the average price in the market.

2.6 Process type code

	Name	Description
Z01	Frequency controlled reserves market	Processes related to the Frequency controlled reserves market, Primary reserves market
Z02	LFC market	Processes related to the Load Frequency Control market, Secondary reserves market
Z03	Balance regulation market	Processes related to the Balance regulation market, Tertiary reserves market
Z04	Reserve option market	Processes related to the Reserve option market
Z05	Bilateral trade	Processes related to the bilateral trade
Z06	Total trade	The trade balance of a party at a given time
Z07	Master data	Exchange of master data

2.7 Production type code

	Name	Description
Z01	Normal	A code indicating that the size of the production unit is normal
Z02	Minor	A code indicating that the size of the production unit is minor

2.8 Reason code

	Name	Description
999	Errors not specifically identified	This code is used to identify errors that have not been specifically addressed in the Reason code list. It can be used at any level and refers to the level for which it has been identified.
Z01	Operational	The given unit has a status of operational
Z02	Reduced Operational	The given unit has a status of reduced operational
Z03	Non Operational	The given unit has a status of non operational
Z04	Revision	The given unit is under revision
Z05	Suspended	The given unit is suspended
Z06	Crashed	The given unit is crashed
Z07	Discarded	The given unit is discarded
Z11		Deprecated
Z12		Deprecated
Z13		Deprecated
Z15		Deprecated
Z16		Deprecated
Z17		Deprecated
Z18		Deprecated
Z19		Deprecated
Z20	Frequency regulation	The information provided regards a regulation for frequency purpose
Z21	System regulation	The information provided regards a regulation for system purpose
Z22	Supportive power	The object relates to Supportive power
Z23	Special Regulation	The object relates to Special Regulation
Z24	Quarterly adjustments	The object relates to Quarterly adjustments
Z25	Ordinary regulation	The object relates to Ordinary regulation
Z26	Transit triangle	The object relates to Transit triangle
Z27	Transit redispatch	The object relates to Transit redispatch
Z28	Transit SB Loop Long	The object relates to Transit SB Loop Long
Z29	FCR	Frequency Containment Reserve (FCR) is an automatic and momentarily regulation, to adjust the physical balance in the power system.
Z30	FRR-A	Frequency Restoration Reserve - Automatic (FRR-A) is an automatic reserve, activated continuously by the frequency
Z31	FRR-M, Balancing Power	Frequency Restoration Reserve - Manual activated reserves (FRR-M), Balancing Power
Z32	FRR-M, Countertrades	Frequency Restoration Reserve - Manual activated reserves (FRR-M), Countertrades when TSO need to maintain (replace) transfer capacity
Z33	FRR-M, Peak Load Reserve Regulation	Frequency Restoration Reserve - Manual activated reserves (FRR-M), Peak Load Reserve Regulation when no commercial bids are available for balancing
Z34	FRR-M, Quarter regulation	Frequency Restoration Reserve - Manual activated reserves (FRR-M), Quarter regulation when TSO need transfer of production (usually start 15 min earlier)

Z35	FRR-M, Special Regulation	Frequency Restoration Reserve - Manual activated reserves (FRR-M), Special Regulation where regulation does not affect the regulation price
Z36	Hour Change Regulation	In order to reduce problems encountered at the turn of the hour in the Nordic countries or in Finland, Fingrid reserves the right to transfer the planned changes to begin 15 minutes before or after the planned moment
Z37	Power Transaction	Fixed price transaction used for specific purposes outside of ordinary regulation
Z38	TSO Internal Countertrades	The time series concern TSO Internal Countertrades
Z39	Day Ahead Production Adjustment	Energy (production) moved from one hour to another to avoid major changes between hours

2.9 Role code

	Name	Description
Z05	Trader	A non-balance responsible trader

3 Nordic codes used in Nordic documents

3.1 Bid type code

	Name	Description
Z01	Hourly bid	The details contains hourly bid
Z02	Block bid	The details contains block bid
Z03	Flexible hourly bid	The details contains flexible hourly bid
Z04	Profile block bid	The details contains profile block bid

3.2 Type of Area code

	Name	Description
Z01	Market Balance Area (MBA)	A geographic area consisting of one or more Metering Grid Areas with common market rules for which the settlement responsible party carries out a balance settlement and which has the same price for imbalance. A Market Balance Area may also be defined due to bottlenecks.
Z02	Metering Grid Area (MGA)	A Metering Grid Area is a physical area where consumption, production and exchange can be metered. It is delimited by the placement of meters for period measurement for input to, and withdrawal from the area. It can be used to establish the sum of consumption and production with no period measurement and network losses.

3.3 Production Unit Type code

	Name	Description
Z01	Nuclear	A Production Unit based on Nuclear power
Z02	Hydro	A Production Unit based on Hydro power
Z03	Thermal	A Production Unit based on Thermal power
Z04	Solar	A Production Unit based on Solar power
Z05	Wind	A Production Unit based on Wind power

3.4 MGA Type code

	Name	Description
Z01	Regional	The MGA represent a regional grid
Z02	Only losses	Deprecated
Z03	Industrial	The MGA represent an industrial grid
Z04	Distribution	The MGA represent a distribution grid
Z05	Non-concessional	The MGA represent a non-concessional grid
Z06	Production	The MGA represent the production in a grid
Z07	Transmission (main/central grid)	The MGA represent a transmission (main/central grid)
Z99	Sub-Grid Area	The MGA represent a sub-gid area, i.e. a MGA that is not part of the imbalance settlement, but where a supplier change can take place.