

# **NORDIC MARKET EXPERT GROUP**

## **NORDIC EDIEL CODE LIST LIBRARY**

**Version:** Version 1.6.A  
**Date:** June 23<sup>rd</sup>, 2021

CONTENT

<b>1</b>	<b>INTRODUCTION .....</b>	<b>3</b>
1.1	REFERENCES.....	3
1.2	CHANGE LOG .....	3
<b>2</b>	<b>NORDIC EXTENSIONS TO ENTSO-E CODE LISTS .....</b>	<b>8</b>
2.1	ASSET TYPE CODE .....	8
2.2	BUSINESS TYPE CODE.....	8
2.3	DOCUMENT TYPE CODE .....	13
2.4	OBJECT AGGREGATION CODE .....	16
2.5	PRICE CATEGORY TYPE CODE .....	17
2.6	PROCESS TYPE CODE.....	18
2.7	REASON CODE .....	19
2.8	ROLE CODE .....	22
<b>3</b>	<b>NORDIC CODES USED IN NORDIC DOCUMENTS .....</b>	<b>23</b>
3.1	BID TYPE CODE.....	23
3.2	TYPE OF AREA CODE .....	24
3.3	PRODUCTION TYPE CODE .....	25
3.4	PRODUCTION UNIT TYPE CODE .....	26
3.5	MGA TYPE CODE.....	27
3.6	SETTLEMENT METHOD CODE.....	28

## 1 Introduction

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

NMEG seeks to use codes from international standardisation bodies, such as ENTSO-E, ebIX<sup>®</sup> and UN/CEFACT. When the need for a new code turns up and there is 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
Cnn	ENTSO-E codes
Enn	ebIX <sup>®</sup> codes
Nnn	NorNed codes
xxx	UN/CEFACT codes
Znn	Nordic codes

Where:

n = number

x = number or character

### 1.1 References

- [1] ENTSO-E code list, see <https://www.entsoe.eu/publications/electronic-data-interchange-ediel-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/>

### 1.2 Change log

Ver/rel/rev	Changed by	Date	Changes
1.6A	Ove Nesvik	20210623	<ul style="list-style-type: none"> <li>• Addition of Document Type <b>Z37</b> to <b>Z40</b></li> <li>• Addition of Reason codes <b>Z58</b> to <b>Z65</b></li> </ul>
1.5.Q	Ove Nesvik	20210325	<ul style="list-style-type: none"> <li>• Addition of Reason code “<b>Z57</b> Auction Run ID”</li> <li>• Business Type code <b>Z69</b> Metered frequency is deprecated – use <b>C57</b> Metered frequency instead</li> </ul>
1.5.P	Ove Nesvik	20210209	“Deprecated” is removed from Business Type <b>Z49</b> and <b>Z51</b>
1.5.O	Ove Nesvik	20210121	Addition of new Process Type <b>Z15</b> External trade.
1.5.N	Ove Nesvik	20210114	The “Deprecated” mark on the Document Type <b>Z15</b> is removed.
1.5.M	Ove Nesvik	20201215	Addition of new Reason Code <b>Z56</b> FFR.
1.5.L	Ove Nesvik	20201015	<p>«deprecated» codes that have got a new official ENTSO-E code:</p> <ul style="list-style-type: none"> <li>• Role type: <b>Z05</b> Trader -&gt; <b>A47</b> Energy Trader</li> <li>• Business Types: <b>Z02</b> Frequency bias -&gt; <b>C25</b> Frequency bias</li> </ul>

			<p><b>Z03</b> Frequency Containment Reserves, Normal (FCR-N)          -&gt; <b>C26</b> Frequency Containment Reserves, Normal (FCR-N)</p> <p><b>Z06</b> Frequency Containment Reserves, Disturbance (FCR-D)          -&gt; <b>C27</b> Frequency Containment Reserves, Disturbance (FCR-D)</p> <p><b>Z52</b> Small scale production          -&gt; <b>C29</b> Small scale production</p> <p><b>Z32</b> System price -&gt; <b>C30</b> System price</p> <ul style="list-style-type: none"> <li>Process type:  <b>Z05</b> Bilateral trade -&gt; <b>A59</b> Internal trade reporting  <b>Z04</b> Reserve option market -&gt; <b>A58</b> Reserve option market</li> </ul>
1.5.K	Ove Nesvik	20200921	<ul style="list-style-type: none"> <li>The following Asset Type Codes are no longer «deprecated»: <ul style="list-style-type: none"> <li><b>Z04</b> Thermal</li> <li><b>Z05</b> Wind</li> </ul> </li> <li>The following code Asset Type Code is added: <ul style="list-style-type: none"> <li><b>Z08</b> wave</li> </ul> </li> </ul>
1.5.J	Ove Nesvik	20200818	<ul style="list-style-type: none"> <li>New Business Type: <ul style="list-style-type: none"> <li><b>Z95</b> Non-conform load schedule</li> <li><b>Z96</b> Conform load schedule</li> </ul> </li> <li>Updated the definition of Reason code <b>Z35</b></li> <li>New Reason codes: <ul style="list-style-type: none"> <li><b>Z53</b> FRR-M, System Regulation</li> <li><b>Z54</b> Activation by AOF (Activation Optimisation Function)</li> <li><b>Z55</b> Manual activation not based on AOF</li> </ul> </li> </ul>
1.5.I	Ove Nesvik	20200723	<ul style="list-style-type: none"> <li>New Business Type: <ul style="list-style-type: none"> <li><b>Z94</b> Frequency Containment Reserve-Disturbance (FCR-D), one-step activation</li> </ul> </li> </ul>
1.5.H	Ove Nesvik	20200706	<ul style="list-style-type: none"> <li>Deprecation of codes approved by ENTSO-E.</li> <li>Reneme of Process Type <b>Z13</b> from “ACE OL Report” to “Corrected real time values”.</li> </ul>
1.5.G	Ove Nesvik	20200604	<ul style="list-style-type: none"> <li>Addition of Reason Codes: <ul style="list-style-type: none"> <li><b>Z50</b> Supportive power special</li> <li><b>Z51</b> Supportive power disturbance</li> <li><b>Z52</b> Transit SB Loop Short</li> </ul> </li> </ul>
1.5.F	Ove Nesvik	20200527	<ul style="list-style-type: none"> <li>Addition of Business Types: <ul style="list-style-type: none"> <li><b>Z90</b> Power Plan Trade</li> <li><b>Z91</b> Loop transit</li> <li><b>Z92</b> Agreed supportive power (ASP)</li> <li><b>Z93</b> Production adjustments</li> </ul> </li> </ul>
1.5.E	Ove Nesvik	20200416	<ul style="list-style-type: none"> <li>Addition of Business Types: <ul style="list-style-type: none"> <li><b>Z88</b> Total planned flow</li> <li><b>Z89</b> Expected countertrade</li> </ul> </li> <li>Addition of Object aggregation code: <ul style="list-style-type: none"> <li><b>Z02</b> Mutually Regulated Areas (MRA)</li> </ul> </li> </ul>

1.5.D	Ove Nesvik	20200309	<ul style="list-style-type: none"> <li>• Addition of Business Types: <ul style="list-style-type: none"> <li><b>Z77</b> ACE OL</li> <li><b>Z84</b> Inertia</li> <li><b>Z85</b> FFR process</li> <li><b>Z86</b> Frequency nadir</li> <li><b>Z87</b> Reference incident</li> </ul> </li> <li>• Addition of Document Types: <ul style="list-style-type: none"> <li><b>Z35</b> ACE OL</li> <li><b>Z36</b> Power Prognoses</li> </ul> </li> <li>• Addition of Process Type: <ul style="list-style-type: none"> <li><b>Z14</b> Fast Frequency Reserve (FFR) Process</li> </ul> </li> <li>• Addition of Reason Codes <b>Z42</b> to <b>Z49</b></li> <li>• Deprecated a set of codes where new codes have been issued by ENTSO-E CIM EG.</li> </ul>
1.5.C	Ove Nesvik	20191016	<ul style="list-style-type: none"> <li>• Addition of Settlement method code: <ul style="list-style-type: none"> <li><b>Z01</b> Flex settled</li> </ul> </li> <li>• Deprecated a set of codes where new codes have been issued by ENTSO-E CIM EG.</li> <li>• Addition of Document Type: <ul style="list-style-type: none"> <li><b>Z34</b> Market Operator Configuration Document</li> </ul> </li> </ul>
1.5.B	Ove Nesvik	20190111	<ul style="list-style-type: none"> <li>• Deprecated codes that no longer are used</li> <li>• Addition of definition for Document Type Z16</li> <li>• Addition of Document Types Z24 to Z33</li> <li>• Addition of Process Types Z08 to Z11</li> <li>• Addition of Reason Codes Z40 to Z41</li> <li>• Addition of Role Code Z06</li> </ul>
1.5.A	Ove Nesvik	20180425	<ul style="list-style-type: none"> <li>• Addition of Trade Structure Document Types: <ul style="list-style-type: none"> <li><b>Z24</b> Request Bilateral Trade Structure Document</li> <li><b>Z25</b> Request PX Trade Structure Document</li> <li><b>Z26</b> Bilateral trade structure master data document containing <b>master data changed</b> within the Validity Time Interval</li> <li><b>Z27</b> Bilateral trade structure master data document containing <b>all valid master data</b> within the Validity Time Interval</li> <li><b>Z28</b> PX trade structure master data document containing <b>master data changed</b> within the Validity Time Interval</li> <li><b>Z29</b> PX trade structure master data document containing <b>all valid master data</b> within the Validity Time Interval</li> </ul> </li> </ul>
1.4.B	Ove Nesvik	20170419	<ul style="list-style-type: none"> <li>• Rename of Document Type codes: <ul style="list-style-type: none"> <li><b>Z12</b> Request change of retailer consumption master data</li> <li><b>Z13</b> Request change of Resource Object master data</li> <li><b>Z18</b> Party Relation Master Data Document containing master data changed within the Validity Time Interval</li> </ul> </li> </ul>

			<p><b>Z19</b> Party Relation Master Data Document containing all valid master data within the Validity Time Interval</p> <ul style="list-style-type: none"> <li>Rename of Document Type codes to: <ul style="list-style-type: none"> <li><b>Z20</b> Retailer consumption master data document containing master data changed within the Validity Time Interval</li> <li><b>Z21</b> Retailer consumption master data document containing all valid master data within the Validity Time Interval</li> <li><b>Z22</b> Resource Object master data document containing master data changed within the Validity Time Interval</li> <li><b>Z23</b> Resource Object master data document containing all valid master data within the Validity Time Interval</li> </ul> </li> </ul>
1.4.A	Ove Nesvik	20170419	<ul style="list-style-type: none"> <li>Addition of Price category type codes: <ul style="list-style-type: none"> <li><b>Z01</b> Buying</li> <li><b>Z02</b> Selling</li> <li><b>Z03</b> Average</li> </ul> </li> <li>Added Document Type Codes <b>Z20</b>, <b>Z21</b>, <b>Z22</b> and <b>Z23</b></li> <li>Rephrased Document Type Codes <b>Z12</b> and <b>Z13</b></li> <li>Updated logos on the front page</li> <li>Removed NPS</li> </ul>
1.3.H	Ove Nesvik	20170213	<p>Textual corrections:</p> <ul style="list-style-type: none"> <li>Updated logos on the front page</li> </ul> <p>Updated NTC and NEG member list</p>
1.3.G	Ove Nesvik	20161121	<p>Added Document Types:</p> <p><b>Z18</b> Party Relation Master Data Document where Validity Start and/or Validity End are within the Validity Period”</p> <p><b>Z19</b> Party Relation Master Data Document where relations are valid sometime within the Validity Period”</p>
1.3.F	Ove Nesvik	20160629	Addition of Document type <b>Z17</b> Spot Market Bid Status Report
1.3.E	Ove Nesvik	20160525	Addition of <b>Z99</b> Sub-Grid Area
1.3.D	Ove Nesvik	20150904	MGA type “ <b>Z02</b> Only losses” is deprecated
1.3.C	Ove Nesvik	20150623	Addition of Business type <b>Z68</b> 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"> <li><b>Z01</b> Normal</li> <li><b>Z02</b> Minor</li> </ul>
1.2.A	Ove Nesvik	20150421	Addition of MGA Type: <ul style="list-style-type: none"> <li><b>Z07</b> Transmission (main/central) grid</li> </ul>
Draft 1.2.A	Ove Nesvik	20150130	Addition of Asset Type: <ul style="list-style-type: none"> <li><b>Z07</b> Consumption”</li> </ul> <p>Addition of Object aggregation:</p> <ul style="list-style-type: none"> <li><b>Z01</b> Generator group</li> </ul>
Draft 1.2.A	Ove Nesvik	20141001	Addition of Reason codes <b>Z29-Z39</b>
Draft 1.2.A	Ove Nesvik	20140717	Deprecation of Business Type Codes:

			<p><b>Z53 (B14)</b> Production deviation  <b>Z54 (B15)</b> Consumption deviation  <b>Z55 (B20)</b> Balance up regulation price  <b>Z56 (B21)</b> Balance down regulation price  <b>Z57 (B22)</b> Main direction  <b>Z58 (B23)</b> Consumption imbalance price  <b>Z59 (B24)</b> Production sales imbalance price  <b>Z60 (B25)</b> Production purchase imbalance price  <b>Z61 (B26)</b> Average balance price between MBAs  <b>Z62 (B27)</b> Pumped  <b>Z63 (B28)</b> Large installation consumption  <b>Z65 (B29)</b> MGA imbalance</p>
1.1.A	Ove Nesvik	20140422	<p>Addition of Business Type codes:  <b>Z55</b> Balance up regulation price  <b>Z56</b> Balance down regulation price  <b>Z57</b> Main direction  <b>Z58</b> Consumption imbalance price  <b>Z59</b> Production sales imbalance price  <b>Z60</b> Production purchase imbalance price  <b>Z61</b> Middle balance price between MBAs  <b>Z62</b> Pumped  <b>Z63</b> Large installation consumption  <b>Z64</b> Internal trade difference  <b>Z65</b> MGA imbalance  Addition of Document Type codes:  <b>Z10</b> Connected Metering Grid Area (MGA) document  <b>Z11</b> Market Balance Area (MBA) structure document  Addition of new code list, Type of Area code:  <b>Z01</b> Market Balance Area (MBA)  <b>Z02</b> Metering Grid Area (MGA)</p>
1.0.B	Ove Nesvik	20140207	<p>Addition of Bid Type Code:  <b>Z04</b> Profile block bid  Addition of Business Type Codes:  <b>Z53</b> Production deviation  <b>Z54</b> Consumption deviation</p>
1.0.A	Ove Nesvik	20131212	First approved version

## 2 Nordic extensions to ENTSO-E code lists

### 2.1 Asset type code

Code	Name	Description
Z01		<b>Deprecated</b> (use <b>A08</b> Busbar instead)
Z02		<b>Deprecated</b> (not used anymore)
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		<b>Deprecated</b> (Use “ <b>B10</b> Hydro Pumped Storage”, “ <b>B11</b> Hydro Run-of-river and pondage” or “ <b>B12</b> Hydro Water Reservoir” instead)
Z07		<b>Deprecated</b> (Use “ <b>A05</b> Load” instead)
Z08	Wave	A resource using wave for energy

### 2.2 Business type code

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		<b>Deprecated</b> (Use <b>A77</b> , <i>Production, dispatchable</i> instead)
Z02		<b>Deprecated</b> (Use <b>C25</b> , <i>Frequency bias</i> instead)
Z03		<b>Deprecated</b> (Use <b>C26</b> , <i>Frequency Containment Reserve-Normal (FCR-N)</i> instead)
Z04		<b>Deprecated</b> (Use <b>A78</b> , <i>Consumption, dispatchable</i> instead)
Z05	Net internal trade counterpart	Net internal trade as reported from the counterpart, used during matching procedure.
Z06		<b>Deprecated</b> (Use <b>C27</b> , <i>Frequency Containment Reserve-Disturbance (FCR-D)</i> instead)
Z07		<b>Deprecated</b> (Use <b>A70</b> , <i>Production, unavailable</i> instead)
Z08	Trade, unconfirmed	The trade plan of an actor when not matched against a counterpart, used during matching procedure.
Z09		<b>Deprecated</b> (Use <b>A89</b> , <i>Spinning reserve</i> (The extra generating capacity that is available by increasing the production of generators that are already connected to the power system))
Z10		<b>Deprecated</b> (Use <b>A10</b> , <i>tertiary reserves</i> )
Z11		<b>Deprecated</b> (Use <b>A12</b> , <i>Secondary control (A time series concerning secondary reserve)</i> )



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		<b>Deprecated</b> Use <b>A66</b> , <i>Energy flow</i> , together with an object aggregation element
Z26		<b>Deprecated</b> Use <b>A23</b> , <i>Balance management</i>
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.  <b><i>This is a permanent Nordic code.</i></b>
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		<b>Deprecated</b> i.e. not used
Z31		<b>Deprecated</b> (Use <b>A79</b> , <i>Production, non-dispatchable</i> instead)
Z32		<b>Deprecated</b> (Use <b>C30</b> <i>System price</i> instead)
Z33		<b>Deprecated</b> (this information should be found as <i>Process type</i> at the header level)
Z34		<b>Deprecated</b> (this information should be found as <i>Process type</i> at the header level)
Z35	Commercial bid	The time series provides commercial bids.
Z36	Reserve bid	The time series provides reserve bids.

<b>Z37</b>	Primary reserves activations	Activations of primary reserves
<b>Z38</b>	Hydro production	The business being described concerns production based on hydro power
<b>Z39</b>	Nuclear production	The business being described concerns production based on nuclear power
<b>Z40</b>	Thermal production	The business being described concerns production based on thermal power
<b>Z41</b>	Wind production	The business being described concerns production based on wind power
<b>Z42</b>	Decentralised production	The business being described concerns production based on decentralised power
<b>Z43</b>	Gas turbine and diesel production	The business being described concerns production based on gas turbine and diesel power
<b>Z44</b>	Other thermal production	The business being described concerns production based on other thermal power
<b>Z45</b>	Disturbance on the Link	Nordic code (currently used by SwePol)
<b>Z46</b>	System Operator redispatching, in case of ASP special	Nordic code (currently used by SwePol)
<b>Z47</b>	Loop Flow	Nordic code (currently used by SwePol)
<b>Z48</b>	Number of return cables	Nordic code (currently used by SwePol)
<b>Z49</b>	Commercial production	The time series provides commercial bids based on production
<b>Z50</b>	Commercial wind production	The time series provides commercial bids based on wind production
<b>Z51</b>	Commercial consumption	The time series provides commercial bids based on consumption
<b>Z52</b>		<b>Deprecated</b> (Use <b>C29</b> <i>Small scale production</i> )
<b>Z53</b>		<b>Deprecated</b> (Use <b>B14</b> instead)
<b>Z54</b>		<b>Deprecated</b> (Use <b>B15</b> instead)
<b>Z55</b>		<b>Deprecated</b> (Use <b>B20</b> instead)
<b>Z56</b>		<b>Deprecated</b> (Use <b>B21</b> instead)
<b>Z57</b>		<b>Deprecated</b> (Use <b>B22</b> instead)
<b>Z58</b>		<b>Deprecated</b> (Use <b>B23</b> instead)
<b>Z59</b>		<b>Deprecated</b> (Use <b>B24</b> instead)
<b>Z60</b>		<b>Deprecated</b> (Use <b>B25</b> instead)
<b>Z61</b>		<b>Deprecated</b> (Use <b>B26</b> instead)
<b>Z62</b>		<b>Deprecated</b> (Use <b>B27</b> instead)
<b>Z63</b>		<b>Deprecated</b> (Use <b>B28</b> instead)
<b>Z64</b>	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.
<b>Z65</b>		<b>Deprecated</b> (Use B29 instead)
<b>Z66</b>	Last resort	A time series concerning consumption handled by supplier of last resort
<b>Z67</b>	TRM	Transmission Reliability Margin
<b>Z68</b>	Production Units own consumption	The consumption of one or more Production Units
<b>Z69</b>		<b>Deprecated</b> (use "C57 Metered frequency" instead)
<b>Z70</b>		<b>Deprecated</b> (use "C17 Market price and total volume" instead)
<b>Z71</b>		<b>Deprecated</b> (use "C18 Import price" instead)
<b>Z72</b>		<b>Deprecated</b> (use "C19 Capacity allocated (excluding price)" instead)
<b>Z73</b>	Fast active disturbance reserve	The <b>fast active disturbance reserve</b> is the manual reserve (FRR-M) available within 15 minutes in the event of the loss of an individual principal component (production unit, line, transformer, bus bar etc.). Restores the <i>frequency controlled disturbance reserve</i> .
<b>Z74</b>	Imbalance sales price	A time series concerning imbalance prices for sales
<b>Z75</b>	Imbalance purchase price	A time series concerning imbalance prices for purchase
<b>Z76</b>	Day ahead prices used for CZC forecast calculation	20190403: Reserved by Statnett (Stein-Ole)
<b>Z77</b>	ACE OL (Area Control Error Open Loop)	The Area Control Error Open Loop (ACE OL) is the real-time imbalance of an area in the power system without automatic Frequency Restoration Reserve (aFRR) and manual Frequency Restoration Reserves (mFRR). ACE OL is the imbalance before any operator balancing actions.
<b>Z78</b>	Upper Alert	A time series concerning the upper limit before an alarm is raised
<b>Z79</b>	Upper Emergency	A time series concerning the upper limit before an emergency is raised
<b>Z80</b>	Lower Alert	A time series concerning the lower limit before an alarm is raised
<b>Z81</b>	Lower Emergency	A time series concerning the lower limit before an emergency is raised
<b>Z82</b>	Upper Warning	A time series concerning the upper limit before a warning is raised
<b>Z83</b>	Lower Warning	A time series concerning the lower limit before a warning is raised
<b>Z84</b>	Inertia	A time series concerning the ability of the kinetic energy stored in the rotating masses in the electricity system to resist changes in frequency.
<b>Z85</b>	Fast Frequency Reserve (FFR)	A time series concerning the Fast Frequency Reserve (FFR), a power response activated within about one second when the system frequency drops below a certain level.
<b>Z86</b>	Frequency nadir	A time series concerning the expected lowest value of the frequency, after a disturbance.
<b>Z87</b>	Reference incident	A time series concerning the expected maximum incident size in MW.

<b>Z88</b>	Total planned flow	A time series concerning total planned flow of power between areas.
<b>Z89</b>	Expected countertrade	The planned supportive power corrections.
<b>Z90</b>	Power Plan Trade	Sum of planned flow considering the Day ahead and Intraday market.
<b>Z91</b>	Loop transit	Flow resulting from agreed loop flows and transit agreement.
<b>Z92</b>	Agreed supportive power (ASP)	Flow from agreed supportive power.
<b>Z93</b>	Production adjustments	Period shift products activated in the balancing time frame where the activation and need are in different areas.
<b>Z94</b>	Frequency Containment Reserve-Disturbance (FCR-D), one-step activation	FCR-D one step activation, is a reserve that is automatically activated when the frequency falls below 49.90 Hz after an imbalance, activated in one step, as opposed to a linear activation.
<b>Z95</b>	Non-conform load schedule	Non-Conform Load Schedule: Loads that do not follow a daily and seasonal load variation pattern.
<b>Z96</b>	Conform load schedule	Conform Load Schedule: A curve of load versus time (X-axis) showing the active power values (Y1-axis) and reactive power (Y2-axis) for each unit of the period covered. This curve represents a typical pattern of load over the time period for a given day type and season.

2.3 Document type code

Code	Name	Description
Z01		<b>Deprecated</b> (Use <b>A14</b> , Resource Provider Resource Schedule (Operational schedule))
Z02		<b>Deprecated</b> (Use <b>A04</b> , System Operator area schedule instead)
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		<b>Deprecated</b> (use “ <b>B35</b> Area Configuration document” instead)
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	<b>Deprecated</b> (use “ <b>B37</b> Connected Area Document” instead)
Z11	Market Balance Area (MBA) Master Data document	<b>Deprecated</b> (use “ <b>B36</b> Area Composition document” instead)
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		<b>Deprecated</b>
Z15	DATCR activation, move (change) of planned production	A document indication a move or change of planned production in a Directly Activated Tertiary Control Reserve (DATCR) process.
Z16	Generator Group 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)
Z24	Request Bilateral Trade Structure Document	A document requesting a new, changed or deleted Bilateral Trade Structure
Z25	Request PX Trade Structure Document	A document requesting a new, changed or deleted PX (Power Exchange) Trade Structure
Z26	Bilateral trade structure master data document containing master data changed within the Validity Time Interval	Bilateral trade structure master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z27	Bilateral trade structure master data document containing all valid master data within the Validity Time Interval	Bilateral trade structure master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z28	PX trade structure master data document containing master data changed within the Validity Time Interval	PX (Power Exchange) trade structure master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z29	PX trade structure master data document containing all valid master data within the Validity Time Interval	PX (Power Exchange) trade structure master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
Z30	Request change of Generator Group (Regulation Object) relations	Used for master data for Resource Objects
Z31	Production Plan Structure – valid for the whole time interval	Used for master data for Resource Objects
Z32	Production Plan Structure – having a start or end within the validity period	Used for master data for Resource Objects
Z33		<b>Deprecated</b> (use B34 instead)
Z34	Market Operator Configuration Document	A document used for sending Market operator calendars.
Z35	ACE OL	A document to provide Area Control Error Open Loop (ACE OL) values
Z36	Power Prognoses	A document to provide power prognoses
Z37	Faster than standard FAT	Bids that can support a “Full Activation Time” (FAT) that is faster than 12,5 minutes.  Fast activation can be done for bids with activation time (CIM:activation_ConstraintDuration.duration) shorter than the minimum requirement for the standard product. When

		circumstances call for it, the TSO can order activation of such bids on a shorter notice.
<b>Z38</b>	Faster than standard deactivation time	Fast deactivation can be done for bids with activation time (CIM:activation_ConstraintDuration.duration) shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
<b>Z39</b>	Slower than standard FAT	Bids that can support a Full Activation Time (FAT) that is slower than 12,5 minutes.
<b>Z40</b>	Period shift activation	Bids are activated for a shorter period than the whole Market Time Unit around period shift in order to resolve structural imbalances.

**2.4 Object aggregation code**

<b>Code</b>	<b>Name</b>	<b>Description</b>
<b>Z01</b>	Generator group	The object being described concerns a group of Reserve objects or Resource objects
<b>Z02</b>	Mutually Regulated Areas (MRA)	The object being described concerns Mutually Regulated Areas (MRA)



**2.5 Price category type code**

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

2.6 Process type code

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		<b>Deprecated</b> (Use <b>A58 Reserve option market</b> )
Z05		<b>Deprecated</b> (Use <b>A59 Internal trade reporting</b> instead)
Z06	Total trade	The trade balance of a party at a given time
Z07	Master data	<b>Deprecated</b> (use "A55 Exchange of master data" instead)
Z08	Common Grid Model (CGM) process	
Z09	Coordinated Security Assessment (CSA) process	
Z10	Outage Planning Coordination process	
Z11	Short and Medium Term Adequacy Assessment (SMTA)	
Z12	ACE OL real-time	The process of exchanging real-time ACE OL values
Z13	Corrected real time values	Reporting of real time values after validation and correction.
Z14	Fast Frequency Reserve (FFR) Process	The process of exchanging information regarding the Fast Frequency Reserve (FFR).
Z15	External trade	Trade outside the Capacity Calculation Region

2.7 Reason code

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		<b>Deprecated</b>
Z12		<b>Deprecated</b>
Z13		<b>Deprecated</b>
Z15		<b>Deprecated</b>
Z16		<b>Deprecated</b>
Z17		<b>Deprecated</b>
Z18		<b>Deprecated</b> (use "B17 Price based on preliminary exchange rate" instead)
Z19		<b>Deprecated</b>
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).

<b>Z35</b>	FRR-M, Special Regulation	Frequency Restoration Reserve - Manual activated reserves (FRR-M), Special Regulation where the price is payed as bid and not archive price.
<b>Z36</b>	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
<b>Z37</b>	Power Transaction	Fixed price transaction used for specific purposes outside of ordinary regulation
<b>Z38</b>	TSO Internal Countertrades	The time series concern TSO Internal Countertrades
<b>Z39</b>	Day Ahead Production Adjustment	Energy (production) moved from one hour to another to avoid major changes between hours
<b>Z40</b>	FCR-N	Frequency Containment Reserve, Normal operation (FCR-N)
<b>Z41</b>	FCR-D	Frequency Containment Reserve, Disturbance (FCR-D)
<b>Z42</b>	FCR – N D-1	Frequency Containment Reserve, Normal operation, day minus one
<b>Z43</b>	FCR – N D-2	Frequency Containment Reserve, Normal operation, day minus two
<b>Z44</b>	FCR – N D-1 correction	Frequency Containment Reserve, Normal operation, day minus one, correction
<b>Z45</b>	FCR – N D-2 correction	Frequency Containment Reserve, Normal operation, day minus two, correction
<b>Z46</b>	FCR – D D-1	Frequency Containment Reserve, Disturbance, day minus one
<b>Z47</b>	FCR – D D-2	Frequency Containment Reserve, Disturbance, day minus two
<b>Z48</b>	FCR – D D-1 correction	Frequency Containment Reserve, Disturbance, day minus one, correction
<b>Z49</b>	FCR – D D-2 correction	Frequency Containment Reserve, Disturbance, day minus two, correction
<b>Z50</b>	Supportive power special	The object relates to Supportive power special
<b>Z51</b>	Supportive power disturbance	The object relates to Supportive power disturbance
<b>Z52</b>	Transit SB Loop Short	The object relates to Transit SB Loop Short
<b>Z53</b>	FRR-M, System Regulation	Frequency Restoration Reserve - Manual activated reserves (FRR-M), System Regulation where regulation does not affect the regulation price.
<b>Z54</b>	Activation by AOF (Activation Optimisation Function)	AOF is a function to operate the algorithm applied for the optimisation of the activation of Balancing Energy bids within a Coordinated Balancing Area.
<b>Z55</b>	Manual activation not based on AOF	Manual (locally) activation without use of AOF. AOF is a function to operate the algorithm applied for the optimisation of the activation of Balancing Energy bids within a Coordinated Balancing Area.
<b>Z56</b>	Fast Frequency Reserves (FFR)	The Fast Frequency Reserve (FFR) is a power response activated within about one second when the system frequency drops below a certain level.
<b>Z57</b>	Auction Run ID	Unique identification of a given auction.
<b>Z58</b>	Scheduled activation	A time series concerning scheduled activation
<b>Z59</b>	Direct activation	A time series concerning direct activation
<b>Z60</b>	Fast activation	A time series concerning faster activation. Bids that can support a Full Activation Time (FAT) that is faster than 12,5 minutes
<b>Z61</b>	Fast deactivation	A time series concerning early deactivation

<b>Z62</b>	Slow activation	A time series concerning slower activation. Bids that can support a Full Activation Time (FAT) that is slower than 12,5 minutes.
<b>Z63</b>	Period shift activation	A time series concerning period shift activation. Bids are activated for a shorter period than the whole Market Time Unit around period shift to resolve structural imbalances.
<b>Z64</b>	Period shift, beginning of period	Bids are activated for a shorter period than the whole Market Time Unit around period shift to resolve structural imbalances, for the beginning of the period.
<b>Z65</b>	Period shift, end of period	Bids are activated for a shorter period than the whole Market Time Unit around period shift to resolve structural imbalances, for the end of the period.

2.8 Role code

Code	Name	Description
Z05		Deprecated (Use A47, Energy Trader instead)
Z06	Regional Security Coordinator	

### 3 Nordic codes used in Nordic documents

#### 3.1 Bid type code

<b>Code</b>	<b>Name</b>	<b>Description</b>
<b>Z01</b>	Hourly bid	The details contains hourly bid
<b>Z02</b>	Block bid	The details contains block bid
<b>Z03</b>	Flexible hourly bid	The details contains flexible hourly bid
<b>Z04</b>	Profile block bid	The details contains profile block bid

### 3.2 Type of Area code

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 type code

<b>Code</b>	<b>Name</b>	<b>Description</b>
<b>Z01</b>	Normal	A code indicating that the size of the production unit is normal
<b>Z02</b>	Minor	A code indicating that the size of the production unit is minor

**3.4 Production Unit Type code**

<b>Code</b>	<b>Name</b>	<b>Description</b>
<b>Z01</b>	Nuclear	A Production Unit based on Nuclear power
<b>Z02</b>	Hydro	A Production Unit based on Hydro power
<b>Z03</b>	Thermal	A Production Unit based on Thermal power
<b>Z04</b>	Solar	A Production Unit based on Solar power
<b>Z05</b>	Wind	A Production Unit based on Wind power

### 3.5 MGA Type code

Code	Name	Description
Z01	Regional	The MGA represent a regional grid
Z02	Only losses	<b>Deprecated</b>
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.

**3.6 Settlement method code**

<b>Code</b>	<b>Name</b>	<b>Description</b>
<b>Z01</b>	Flex settled	Consumption or production from small continuously read Accounting Points