



***New XSD format for block  
and 15-minute bids/offers***

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## Introduction

As of 1 January, GME will manage block bids/offers in its Spot Electricity Market (MPE) and 15-minute granularity bids/offers in its Day-Ahead markets (MI).

The following are the impacts of these changes on the xml files (namely on the XSD schemas) that GME publishes on its FTPS server (<https://download.ipex.it>) and in the download area of its website, divided into two stages:

- Stage 1: introduction of quarter-hourly bids/offers for the MI, XBID, and MSD;
- Stage 2: introduction of quarter-hourly and half-hourly bids/offers also in the MGP.

## 1. Stage 1

Stage 1 will involve the results and the public bids/offers of the MI-A1, MI-A2, MI-A3, XBID, and MSD markets.

### 1.1. Results and Preliminary Information

A **Periodo** (Period) field will be added at the bottom of the .xml files of results and preliminary information, contained in the following directories. This field will show values from 1 to 92 for the last Sunday of March, from 1 to 100 for the last Sunday of October, and from 1 to 96 for all other days.

- MB\_PAIttriServizi (Other Services)
- MB\_PRiservaSecondaria (Secondary Reserve)
- MB\_PTotali (Totals)
  
- MGP\_DomandaOfferta<sup>1</sup> (Demand Supply)
  
- MI-A1\_DomandaOfferta<sup>1</sup> (Demand Supply)
- MI-A1\_LimitiTransito (Transit Limits)
- MI-A1\_Prezzi (Prices)
- MI-A1\_Quantita (Quantities)
- MI-A1\_Transiti (Transits)
- MI-A1\_VincoliGeneralizzati (Generalised Constraints)
- MI-A1\_VincoliRampa (Ramp Constraints)
  
- MI-A2\_DomandaOfferta<sup>1</sup> (Demand Supply)
- MI-A2\_LimitiTransito (Transit Limits)
- MI-A2\_Prezzi (Prices)
- MI-A2\_Quantita (Quantities)
- MI-A2\_Transiti (Transits)
- MI-A2\_VincoliGeneralizzati (Generalised Constraints)
- MI-A2\_VincoliRampa (Ramp Constraints)
  
- MI-A3\_DomandaOfferta<sup>1</sup> (Demand Supply)
- MI-A3\_LimitiTransito (Transit Limits)
- MI-A3\_Prezzi (Prices)
- MI-A3\_Quantita (Quantities)
- MI-A3\_Transiti (Transits)
- MI-A3\_VincoliGeneralizzati (Generalised Constraints)
- MI-A3\_VincoliRampa (Ramp Constraints)

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<sup>1</sup> The layout of the file will be different from the past. See para. 1.4.

- MSD\_ServiziDispacciamento (Dispatching Services)<sup>2</sup>
- XBID\_EsitiParziali1 (Partial Results1)
- XBID\_EsitiParziali2 (Partial Results2)
- XBID\_EsitiTotali (Total Results)
- XBID\_PrezziOrari (Hourly Prices)

## 1.2. Example of Change of the .Xsd Format of Results

The following is an example of the change to be made to the files that are present in the MI-A1\_Prezzi (Prices) folder, with the addition of the **Periodo** (Period) field at the bottom (highlighted in yellow).

```
<?xml version="1.0" standalone="yes"?>
<NewDataSet>
  <xs:schema id="NewDataSet" xmlns=""
    xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
    <xs:element name="NewDataSet" msdata:IsDataSet="true"
      msdata:UseCurrentLocale="true">
      <xs:complexType>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="Prezzi">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Data" type="xs:string" minOccurs="0" />
                <xs:element name="Mercato" type="xs:string" minOccurs="0" />
                <xs:element name="Ora" type="xs:string" minOccurs="0" />
                <xs:element name="PUN" type="xs:string" minOccurs="0" />
                <xs:element name="NAT" type="xs:string" minOccurs="0" />
                <xs:element name="CALA" type="xs:string" minOccurs="0" />
                <xs:element name="CNOR" type="xs:string" minOccurs="0" />
                <xs:element name="CSUD" type="xs:string" minOccurs="0" />
                <xs:element name="NORD" type="xs:string" minOccurs="0" />
                <xs:element name="SARD" type="xs:string" minOccurs="0" />
                <xs:element name="SICI" type="xs:string" minOccurs="0" />
                <xs:element name="SUD" type="xs:string" minOccurs="0" />
                <xs:element name="AUST" type="xs:string" minOccurs="0" />
                <xs:element name="COAC" type="xs:string" minOccurs="0" />
                <xs:element name="COUP" type="xs:string" minOccurs="0" />
                <xs:element name="CORS" type="xs:string" minOccurs="0" />
                <xs:element name="FRAN" type="xs:string" minOccurs="0" />
                <xs:element name="GREC" type="xs:string" minOccurs="0" />
                <xs:element name="SLOV" type="xs:string" minOccurs="0" />
                <xs:element name="SVIZ" type="xs:string" minOccurs="0" />
                <xs:element name="MALT" type="xs:string" minOccurs="0" />
                <xs:element name="MONT" type="xs:string" minOccurs="0" />
                <xs:element name="XGRE" type="xs:string" minOccurs="0" />
                <xs:element name="BSP" type="xs:string" minOccurs="0" />
                <xs:element name="XAUS" type="xs:string" minOccurs="0" />
                <xs:element name="XFRA" type="xs:string" minOccurs="0" />
                <xs:element name="Periodo" type="xs:string" minOccurs="0" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:choice>
      </xs:element>
    </xs:schema>
  </NewDataSet>
```

<sup>2</sup> The unit of measurement contained in the name of the fields will change from MWh to MW. For instance, the field NORD\_AcquistiMWh will change to NORD\_AcquistiMW.

```

        </xs:choice>
    </xs:complexType>
</xs:element>
</xs:schema>

```

### 1.3. Public Bids/Offers

New fields will be added to the files of public bids/offers to identify any block bids/offers and the MTU of the bid/offer.

From the files of public bids/offers that are present in the folders

- MI-A1\_OffertePubbliche (Public Bids/Offers)
- MI-A2\_OffertePubbliche
- MI-A3\_OffertePubbliche

the **INTERVAL\_NO** field will be **deleted**.

The following fields will be added:

Field	Type	Description
<b>OFFER_TYPE</b>	String	Type of bid/offer: S simple bid/offer, B block bid/offer
<b>BLOCK_ID</b>	String	Identification code of the block (here, all bids/offers belonging to the same block will have the same value)
<b>PERIOD</b>	Integer	Number of the quarter-hourly interval to which the bid/offer refers
<b>GRANULARITY</b>	String	MTU of the bid/offer: PT15 (for quarter-hourly bids/offers) and PT60 (for hourly bids/offers)
<b>MINIMUM_ACCEPTANCE_RATIO</b>	Decimal	Minimum percentage of acceptance of block bids/offers

To the files of public bids/offers that are present in the directory

- MGP\_OffertePubbliche (Public Bids/Offers)

the **INTERVAL\_NO** field will be **deleted**.

The following fields will be added:

Field	Type	Description
<b>OFFER_TYPE</b>	String	Type of bid/offer: S simple bid/offer, B block bid/offer
<b>BLOCK_ID</b>	String	Identification code of the block (here, all bids/offers belonging to the same block will have the same value)
<b>PERIOD</b>	Integer	Number of the period related to the MTU of the bid/offer (1-100 for quarter-hourly bids/offers, 1-50 for half-hourly bids/offers, and 1-25 for hourly bids/offers)
<b>GRANULARITY<sup>3</sup></b>	String	MTU of the bid/offer: PT15 (for quarter-hourly bids/offers) and PT60 (for hourly bids/offers)
<b>MINIMUM_ACCEPTANCE_RATIO</b>	Decimal	Minimum percentage of acceptance of block bids/offers

To the files of public bids/offers that are present in the directory

- MSD\_OffertePubbliche (Public Bids/Offers)

the following fields will be added

Field	Type	Description
<b>PERIOD</b>	Entire	Number of the quarter-hourly interval to which the bid/offer refers
<b>GRANULARITY</b>	String	MTU of the bid/offer: PT15

#### 1.4. Demand/Supply Graph

The files published inside the MGP\_DomandaOfferta (Demand Supply), MI-A1\_DomandaOfferta (Demand Supply), MI-A2\_DomandaOfferta (Demand Supply), and MI-A3\_DomandaOfferta (Demand Supply) folders will have a completely new format with respect to the past; the following table gives a description of the new format.

<sup>3</sup> As of 1 January, the value will always be PT60 until the introduction of 15- and 30-min bids/offers.

Field	Type	Description
<b>DATA</b> (DATE)	Entire	Flow date of bids/offers
<b>SCOPO</b> (PURPOSE)	String	Side of bids/offers (BID=purchase, OFF=sale)
<b>MTU</b>	Integer	Market Time Unit of bids/offers <sup>4</sup>
<b>INTERVALLO</b> (INTERVAL)	Integer	Applicable period to which bids/offers refer
<b>ZONA_MERCATO</b> (MARKET ZONE)	String	Market zone in which the zone is located
<b>QUANTITA_OFFERTA</b> (OFFERED QUANTITIES)	Decimal	Sum of quantities offered by offered price level
<b>QUANTITA_ACCETTATA</b> (ACCEPTED QUANTITIES)	Decimal	Sum of quantities accepted by offered price level
<b>PREZZO_OFFERTO</b> (OFFERED PRICE)	Decimal	Offered price
<b>PREZZO_ACCETTATO</b> (ACCEPTED PRICE)	Decimal	ACCEPTED price
<b>TIPO_OFFERTA</b> (TYPE OF BID/OFFER)	String	Type of bid/offer, simple or block bid/offer

## 2. Stage 2

In Stage 2, also the MGP market will have quarter-hourly results, thereby enabling participants to submit 15-minute, 30-minute, or 60-minute bids/offers.

### 2.1. Results and Preliminary Information

The **Periodo** (Period) field will be added at the bottom of the .xml files of results and preliminary information, contained in the following directories. The field will show values from 1 to 92 for the last Sunday of March, from 1 to 100 for the last Sunday of October, and from 1 to 96 for all other days.

- MGP\_Fabbisogno (Requirements)
- MGP\_LimitiTransito (Transit Limits)
- MGP\_Liquidita (Liquidity)
- MGP\_MarketCoupling

<sup>4</sup> The MTU may take on the following values: 15, 30, and 60.

## GME – Change of the XSD format of the files published by GME following the introduction of the TIDE

- MGP\_Prezzi15 (Prices 15, new file)
- MGP\_PrezziConvenzionali (Conventional Prices)
- MGP\_Quantita (Quantities)
- MGP\_StimeFabbisogno (Estimated Requirements)
- MGP\_Transiti (Transits)
- MGP\_VincoliGeneralizzati (Generalised Constraints)
- MGP\_VincoliRampa (Ramp Constraints).

The files published in the MGP\_Prezzi (Prices) folder will not be changed; as of the date established by the Market Coupling Steering Committee, they will contain the zonal hourly prices, including the PUN Index GME. **This will be the only result that will be published also for 60-min bids/offers.**

To the files published in the MGP\_Prezzi15 (Prices15) folder, in addition to the Period field, also the Granularity field will be added (with the value “PT15”).