

# The implementation of the 15 minutes products in the Intraday Market

OPCOM S.A.



21opcom

Romanian gas and electricity market operator

# **Legislative framework**

- Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline for balancing the electricity system, Article 53 (1);
- Commission Regulation (EU) 2019/943 of 05 June 2019 regarding the internal electricity market, Articles 8 (4) si 8 (2);
- Order of ANRE no. 63 of 31.03.2020 approving the implementation schedule of the necessary measures to ensure the settlement conditions at an interval of 15 minutes;
- Order of ANRE no. 230 of 16.12.2020 prorogating the implementation of the settlement at an interval of 15 minutes until the date of **01.02.2021**.



# **Trading on the 15 minutes contracts**

- In accordance with the deadline provided by ANRE Order no. 230 of 16.12.2020, respectively on February 1, 2021, OPCOM will make the 15-minute product available for trading.
- Until the implementation of the 15-minute product on the RO-HU interconnector for cross-border trading within the Single Intra-Day Coupling (SIDC) an ongoing process, this product will be traded locally.
- The 15-minute product will be offered for trading alongside the hourly product, including UDDP products (User Defined Delivery Period, a block product type). Prior to the implementation of the 15-minute product on the RO-HU interconnector, trading within SIDC will continue exclusively on hourly and UDDP products. After this moment, both 15 min and 60 min products (linked products as defined within the Annex 1 of the Procedure related to the operation of the intraday electricity market), will be traded locally exclusively during the periods when cross-border trading is not possible.
- The 15 min product can be tested by market participants in the simulation environment provided by OPCOM, respectively <a href="https://portal-simu.m7.energy/xrpm/simu/">https://portal-simu.m7.energy/xrpm/simu/</a>.
- The API access facility will be made available by OPCOM after clarifying all implications with the trading system provider.



# Changes made due to the implementation of the local 15 minutes product

• To trade on the 15 minutes contracts it is required to select the corresponding product in the **Market overview menu**.



- The trading schedule of the 15 minutes contracts is similar to the one of the hourly products. Each 15 minutes contract (**Q**XX:XX-XX:XX\_L) will open for continuous trading starting with 15:00 CET in the previous day and it will close 60 minutes before delivery starts.
- Creating block offers based on 15 minutes contracts isn't possible.

#### **Notes:**

- In the production environment the product will have the name: Local\_Quarter\_Hour Power
- Please note that the scheduling attached to the contracts in SIMU environment could be different from the production one, for testing reason.



# Physical notification for granularity of 15 minutes

- The physical notification will have 15 minutes granularity, therefore will contain 96 (92, 100 during the daylight-saving time changes) intervals of 15 minutes instead of 24 (23,25) hourly intervals.
- A trade of 15 MW on the hourly contract 22-23\_XB (CET), which coincide with the intervals 93, 94, 95, 96 (related to the hourly interval 23-24 EET) from the physical notification, is represented in the physical notification on all 4 15 minutes intervals (check the previous examples)
- A trade of 30 MW on the contract Q15:00-15:15\_L (CET) is represented on interval 65 in the physical notification (related to the interval 16:00-16:15 EET).

```
<Interval>
     <Pos v="93"/>
     <Qty v="15.0"/>
  </Interval>
<Interval>
     <Pos v="94"/>
     <Qty v="15.0"/>
  </Interval>
- <Interval>
     <Pos v="95"/>
     <Qtv v="15.0"/>
  </Interval>
<Interval>
     <Pos v="96"/>
     <Qty v="15.0"/>
  </Interval>
```

**Note**: Physical notification with 15 min granularity will apply as of 1st February 2021 EET delivery day, respectively starting with first hour (EET time) of 1st February 2021.



# Principles of bidding/trading at a granularity of 15 minutes (1)

 Bidding and trading at a granularity of 15 minutes will be done considering the average hourly power [MW] and the price for a MWh [Euro/MWh].

### Example 1:

- In case of bidding/trading of 10 MW at the price of 10 Euro on a 15 minutes contract Q11:30-11:45\_L (CET), the following will be applied:
  - Physical notification (average hourly power) on 15 minutes intervals: 10 MW on the interval 12:30-12:45 EET;
  - Energy traded on 15 minutes interval: 10\*15/60=2,5 MWh;
  - The value of the trade related to the 15 minutes interval: (10\*15/60)\*10=25 Euro.



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# Principles of bidding/trading at a granularity of 15 minutes (2)

# Example 2:

- In case of bidding/trading of 10 MW at a price of 10 Euro on a global hourly contract **11:00-12:00\_XB (CET)**, the following will be applied:
  - Physical notification (average hourly power) at 15 minutes:
    - 10 MW on the interval 12:00-12:15 EET;
    - 10 MW on the interval 12:15-12:30 EET;
    - 10 MW on the interval 12:30-12:45 EET;
    - 10 MW on the interval 12:45-13:00 EET.
  - Energy traded on the hourly interval: 10 MWh;
  - The value of the trade related to the hourly interval: 10\*10=100 Euro



# Principles of bidding/trading at a granularity of 15 minutes (3)

- Considering the previously exemplified trades for the same participant and also sense (sell or buy), the following is obtained:
  - Physical notification (average hourly power) at 15 minutes:
    - 10 MW on the interval 12:00-12:15 EET;
    - 10 MW on the interval 12:15-12:30 EET;
    - 20 MW on the interval 12:30-12:45 EET;
    - 10 MW on the interval 12:45-13:00 EET.
  - Total energy traded: 12.5 MWh;
  - Total value of the energy traded: 125 Euro.
- Note: Don't confuse the representation for power with that for energy or value!





# Principles of bidding/trading at a granularity of 15 minutes (4)

```
419
                    </ScheduleTimeSeries>
420
                <ScheduleTimeSeries>
421
                    <SendersTimeSeriesIdentification v="1234567890123456 CONSUMPTION"/>
422
                    <SendersTimeSeriesVersion v="1"/>
                                                                                                                                                                                                                                          Physical Notification:
423
                    <BusinessType v="A03"/>
424
                    <Pre><Pre>oduct v="8716867000016"/>
                                                                                                                                                                                                                                         96 intervals
425
                    <ObjectAggregation v="A03"/>
426
                    <InArea v="10YRO-TEL----P" codingScheme="A01"/>
427
                    <OutArea v="10YRO-TEL----P" codingScheme="A01"/>
428
                    <InParty v="1234567890123456" codingScheme="A01"/>
429
                    <OutParty v="30XROOPCOM-PI--S" codingScheme="A01"/>
430
                    <MeasurementUnit v="MAW"/>
431
                ⊟<Period>
432
                    <TimeInterval v="2021-01-07T22:00Z/2021-01-08T22:00Z"/>
433
                    <Resolution v="PT15M"/>
434
               一<Interval>
435
                    <Pos v="1"/>
436
                    <Qtv v="15.0"/>
437
                  </Interval>
                                                                                                                                                                                                                                 Note: Settlement note won't be
438
                -< Interval>
439
                    <Pos v="2"/>
                                                                                                                                                                                                                                  changed. The 15 minutes contracts
440
                    <Qty v="15.0"/>
                                                                                                                                                                                                                                  will appear adequate in the case
441
                   </Interval>
442
                                                                                                                                                                                                                                  there were trades made on them.
443
                444
                    <Pos v="95"/>
                                                                                                                                                                                                                       Ex.: 20210109 01:00-20210109 01:15
445
                    <Qty v="16.0"/>
446
                  </Interval>
447
                <!red color for the color
448
                   <Pos v="96"/>
449
                    <Qtv v="16.0"/>
450
                  </Interval>
451
                   </Period>
452
                  </ScheduleTimeSeries>
```





# **Representation of the 15 minutes contracts**

- The representation in ComTrader will be similar with the one for hourly trade:
  - Contracts for the current delivery day: Q10:00-10:15\_L, Q23:45-T00:00\_L
  - Contracts for the next delivery day: QT10:00-T10:15\_L, QT23:45-TT00:00\_L
  - Contracts for the previous delivery day: 20210107 23:00-20210107 23:15
- In the case of the Daily order report, TC540 the only changes will be the name of the contract, respectively of the trading intervals.
- In the case of the Daily Trade report, TC810 the changes will involve: the name of the contract, the trading intervals and the unit of the contract. The contract unit is 0,25 for the 15 minutes product and 1 for the hourly products.

```
- <tc810Grp>
- <tc540Grp1>
                                                              <tc810KeyGrp>
   <tc540KeyGrp1>
       <partIdCod>TRD001</partIdCod>
                                                                    <membExcIdCod>GXXX1</membExcIdCod>
      - <instTitl>
                                                                    <membClqIdCod>OPCOM</membClqIdCod>
          <isinCod>20210106 14:15-20210106 14:30</isinCod>
                                                                    <stlIdAct>0000</stlIdAct>
       </instTitl>
                                                                    <stlIdLoc>OPC</stlIdLoc>
       <currTypCod>EUR</currTypCod>
                                                                  - <instTitl>
       cproduct>LocalTest_Quarter_Hour_Power
                                                                       <isinCod>20210106 19:30-20210106 19:45</isinCod>
    </tc540KeyGrp1>
                                                                    </instTitl>
   - <tc540Rec>
                                                                    <cntcUnt>0.25</cntcUnt>
       <tranTim>12:00:25.121+01:00</tranTim>
                                                                    cproduct>LocalTest_Quarter_Hour_Power
       <mktArea>RO</mktArea>
       <tso>TEL</tso>
                                                                    <currTypCod>EUR</currTypCod>
```



# Thank you for your attention!

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