

# **User manual Of information System**



## **User manual for external users of OTE public web – web services**

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Date	Description of changes
4.8.2010	Description of changes after web services redesign
7.9.2010	Version for OTE comments
29.9.2010	Finalization of OTE comments
2.12.2010	Update for CR78
8.5.2012	Update for CR160
3.8.2016	Update for CR391
9.9.2021	Update for CR137
26.6.2023	Removal of services related to discontinued markets
27.5.2024	Update of services for 15/ 60-minute contracts and IDA

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## 1 Web services

Web services allows automatic access to some data that are published on our web site ([www.ote-cr.cz](http://www.ote-cr.cz)) The technology is wide-spread and has an implementation in many programming languages. For its use is necessary to have a program that will process, store and display to user.

Current implementation uses Python app.server Zope with SOAP library [SOAPpy 0.11.6](#) with server extension [SOAPSUPPORT 0.7.2](#).

### 1.1 Compatibility

Services on current public web got through upgrade. Compatibility with previous client version (OTE Win client version 1.1.2.0 and OTE WWW services version 1.1.2.0) are not supported yet.

### 1.2 WSDL

Service is available at <https://www.isotetest.ote-cr.cz/services/PublicDataService>. WSDL is available at same link by sending HTTP GET request, or at <https://www.isotetest.ote-cr.cz/services/PublicDataService/wSDL>

WSDL Extract:



### 1.3 Services and formats

All services export data in XML format including XSD definition.

Services list (case sensitive!):

Web services for an hourly period

- GetDamIndexE (previous GetOKOIndex)
- GetRutList (previous GetRUTList)
- GetDamPriceE (previous GetOKOCenyHod)
- GetDamAllE (previous GetDAMPriceHour)
- GetImbalanceSettlementE(previous GetVicenaklady)
- GetImPriceE (new)
- GetImPriceG (new)
- GetImbalanceNCBALSettlementG (new)

Web services for 15-minute and 60-minute contracts :

- GetImbalanceSettlementPeriodE (service active from 1.7.2024)
- GetImPricePeriodE

Web services for IDA

- GetIDAPriceE service active from 12.6.2024 to 1.7.2024)
- GetIDAAllE (service active from 12.6.2024 to 1.7.2024)
- GetIDAPricePeriodE (service active from 1.7.2024)
- GetIDAAllPeriodE (service active from 1.7.2024)

Types of output parameters:

- date – xsd:date
- hour – hour no. interval 1-25

### 1.3.1 GetDamIndexE

Returns electricity Short-term Market indexes for given period.

Input parameters:

- StartDate - date from
- EndDate - date to

Output structure with elements:

- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- EurRate – exchange rate ČNB for given day
- BaseLoad – BaseLoad index value
- PeakLoad - PeakLoad index value
- OffpeakLoad – OffpeakLoad index value
- Emerg - value of the state of emergency (1 state of emergency was declared, 0 was not)

Example - Input request:

```
<?xml version="1.0" encoding="utf-8" ?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetDamIndexE>
      <pub:StartDate>2010-01-01</pub:StartDate>
      <pub:EndDate>2010-01-02</pub:EndDate>
    </pub:GetDamIndexE>
  </soapenv:Body>
</soapenv:Envelope>
```

Example – output:

```
<?xml version="1.0" encoding="utf-8" ?>
<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetDamIndexEResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <DamIndex>
```

```

    <Date>2010-01-01</Date>
    <EurRate>26.4</EurRate>
    <BaseLoad>9.15</BaseLoad>
    <PeakLoad>12.94</PeakLoad>
    <OffpeakLoad>5.36</OffpeakLoad>
  </DamIndex>
  <DamIndex>
    <Date>2010-01-02</Date>
    <EurRate>26.465</EurRate>
    <BaseLoad>29.88</BaseLoad>
    <PeakLoad>43.5</PeakLoad>
    <OffpeakLoad>16.26</OffpeakLoad>
    <Emerg>0</Emerg>
  </DamIndex>
</Result>
</GetDamIndexEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.2 GetRutList

Returns list of all registered market participants.

No input parameters.

Output structure with elements:

- Id - Unique participant identifier (RMP) in IS OTE
- Ean - European article number, participant code (length 13)
- Eic – RMP unique identifier via EIC
- VatNo – Vat Reg. number
- Company – Company name
- RegistrationDate – Registration date (creating RMP in IS)
- SubjectSettlementDateElectricityFrom – Validity date from - Subject of Settlement - electricity
- SubjectSettlementDateElectricityTo - Validity date to - Subject of Settlement - electricity
- SubjectSettlementDateGasFrom - Validity date from - Subject of Settlement - gas
- SubjectSettlementDateGasTo - Validity date to - Subject of Settlement - gas
- DamElectricityValidityFrom – Validity date from – access to DM - electricity
- DamElectricityValidityTo - Validity date to – access to DM - electricity
- DamGasValidityFrom - Validity date from – access to DM - gas

- DamGasValidityTo - Validity date to – access to DM - gas
- DistributorElectricityFrom - Validity date from – distributor licence - electricity
- DistributorElectricityTo - Validity date to – distributor licence - electricity
- DistributorGasFrom - Validity date from – distributor licence - gas
- DistributorGasTo - Validity date to – distributor licence – gas

#### Example - Input request:

```
<?xml version="1.0" encoding="utf-8" ?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetRutList/>
  </soapenv:Body>
</soapenv:Envelope>
```

#### Example – output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetRutListResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Rut>
          <Id>3</Id>
          <Ean>8591824000304</Ean>
          <VatNo>70894451</VatNo>
          <Company>3</Company>
          <RegistrationDate>2002-04-11</RegistrationDate>
          <DamElectricityValidityFrom>2002-04-
12</DamElectricityValidityFrom>
          <DamElectricityValidityTo>5000-01-
01</DamElectricityValidityTo>
        </Rut>
        <Rut>
          <Id>5</Id>
          <Ean>8591824000502</Ean>
          <VatNo>46900896</VatNo>
          <Company>5</Company>
          <RegistrationDate>2004-04-02</RegistrationDate>
        </Rut>
        <Rut>
          <Id>6</Id>
          <Ean>8591824000601</Ean>
          <VatNo>00020699</VatNo>
          <Company>6</Company>
```



```

        <RegistrationDate>2004-06-30</RegistrationDate>
    </Rut>
    <Rut>
        <Id>20</Id>
        <Ean>8591824001905</Ean>
        <Eic>24X-OT-SK-----V</Eic>
        <VatNo>35829141</VatNo>
        <Company>20</Company>
        <RegistrationDate>2009-08-20</RegistrationDate>
    </Rut>
    <Rut>
        <Id>21</Id>
        <Ean>8591824002100</Ean>
        <Eic>10XSK-SEPS-GRIDB</Eic>
        <VatNo>35829141</VatNo>
        <Company>21</Company>
        <RegistrationDate>2009-08-20</RegistrationDate>
    </Rut>
    <Rut>
        <Id>98</Id>
        <Ean>8591824009802</Ean>
        <VatNo>27865444</VatNo>
        <Company>98</Company>
        <RegistrationDate>2007-05-15</RegistrationDate>
        <DamElectricityValidityFrom>2009-03-
31</DamElectricityValidityFrom>
        <DamElectricityValidityTo>5000-01-
01</DamElectricityValidityTo>
    </Rut>
    <Rut>
        <Id>99</Id>
        <Ean>8591824009901</Ean>
        <VatNo>49546392</VatNo>
        <Company>99</Company>
        <RegistrationDate>2003-06-13</RegistrationDate>
    </Rut>
    <Rut>
        <Id>101</Id>
        <Ean>8591824010105</Ean>
        <VatNo>25702556</VatNo>
        <Company>101</Company>
        <RegistrationDate>2001-12-10</RegistrationDate>
    </Rut>
    <Rut>
        <Id>283</Id>
        <Ean>8591824028308</Ean>
        <Eic>27XG-CENTROPOL-P</Eic>
        <VatNo>25458302</VatNo>
        <Company>283</Company>
        <RegistrationDate>2003-04-14</RegistrationDate>
        <SubjectSettlementDateElectricityFrom>2007-10-
31</SubjectSettlementDateElectricityFrom>
        <SubjectSettlementDateElectricityTo>2013-03-
01</SubjectSettlementDateElectricityTo>

```

```

        <DamElectricityValidityFrom>2007-10-
31</DamElectricityValidityFrom>
        <DamElectricityValidityTo>2013-03-
01</DamElectricityValidityTo>
    </Rut>
</Result>
</GetRutListResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.3 GetDamPriceE (previous GetOKOCenyHod)

Returns energy and price (EUR) per hours from electricity day market for given period.

Input parameters

- StartDate – date from
- EndDate – date to
- StartHour - hour from
- EndHour - hour to
- InEur – optional parameter boolean type. If is set True, the service returns price (EUR) rounded at 2 decimal places, else returns price (CZK). Price in CZK is calculated according to ČNB exchange rate from date, which is equal (or older) than delivery day.

Output structure with elements:

- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Hour – Hour No.
- Price - Price [EUR/MWh]
- Volume - traded volume [MWh]
- Emerg - value of the state of emergency (1 state of emergency was declared, 0 was not)

Example - Input request:

```

<?xml version="1.0" encoding="UTF-8" ?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
    <soapenv:Header/>
    <soapenv:Body>
        <pub:GetDamPriceE>

```

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```

    <pub:StartDate>2010-01-01</pub:StartDate>
    <pub:EndDate>2010-01-02</pub:EndDate>
    <!--Optional:-->
    <pub:StartHour>1</pub:StartHour>
    <!--Optional:-->
    <pub:EndHour>24</pub:EndHour>
    <!--Optional:-->
    <pub:InEur>false</pub:InEur>
  </pub:GetDamPriceE>
</soapenv:Body>
</soapenv:Envelope>

```

### Example – Output:

```

<?xml version="1.0" encoding="UTF-8" ?>
<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetDamPriceEResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>1</Hour>
          <Price>52.8</Price>
          <Volume>325.7</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>2</Hour>
          <Price>26.4</Price>
          <Volume>311.4</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>3</Hour>
          <Price>0.264</Price>
          <Volume>333.9</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>4</Hour>
          <Price>0.264</Price>
          <Volume>257.6</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>5</Hour>
          <Price>0.264</Price>
          <Volume>207.6</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>6</Hour>
          <Price>0.264</Price>

```

```

        <Volume>380.2</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>7</Hour>
        <Price>0.264</Price>
        <Volume>376.1</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>8</Hour>
        <Price>0.264</Price>
        <Volume>279.4</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>9</Hour>
        <Price>0.264</Price>
        <Volume>361.8</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>10</Hour>
        <Price>0.264</Price>
        <Volume>512.7</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>11</Hour>
        <Price>26.4</Price>
        <Volume>588</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>12</Hour>
        <Price>26.4</Price>
        <Volume>646.7</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>13</Hour>
        <Price>26.4</Price>
        <Volume>710.5</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>14</Hour>
        <Price>26.4</Price>
        <Volume>539.6</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>15</Hour>
        <Price>264</Price>
        <Volume>503.4</Volume>
    </Item>

```

```

</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>16</Hour>
  <Price>396</Price>
  <Volume>478</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>17</Hour>
  <Price>615.12</Price>
  <Volume>476.1</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>18</Hour>
  <Price>872.256</Price>
  <Volume>482.2</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>19</Hour>
  <Price>924</Price>
  <Volume>481.3</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>20</Hour>
  <Price>922.152</Price>
  <Volume>484.5</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>21</Hour>
  <Price>798.6</Price>
  <Volume>434</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>22</Hour>
  <Price>396</Price>
  <Volume>393.6</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>23</Hour>
  <Price>396</Price>
  <Volume>390.8</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>24</Hour>
  <Price>26.4</Price>
  <Volume>360.6</Volume>
</Item>

```

```

<Item>
  <Date>2010-01-02</Date>
  <Hour>1</Hour>
  <Price>396.975</Price>
  <Volume>292.3</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>2</Hour>
  <Price>26.465</Price>
  <Volume>316.3</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>3</Hour>
  <Price>26.465</Price>
  <Volume>266.6</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>4</Hour>
  <Price>26.465</Price>
  <Volume>276.1</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>5</Hour>
  <Price>26.465</Price>
  <Volume>278.7</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>6</Hour>
  <Price>26.465</Price>
  <Volume>269.7</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>7</Hour>
  <Price>26.465</Price>
  <Volume>262.2</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>8</Hour>
  <Price>529.3</Price>
  <Volume>293.7</Volume>
</Item>
<Item>
  <Date>2010-01-02</Date>
  <Hour>9</Hour>
  <Price>793.95</Price>
  <Volume>252.3</Volume>
</Item>
<Item>

```

```

        <Date>2010-01-02</Date>
        <Hour>10</Hour>
        <Price>952.74</Price>
        <Volume>301.9</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>11</Hour>
        <Price>1124.2332</Price>
        <Volume>356.6</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>12</Hour>
        <Price>1170.2823</Price>
        <Volume>389.7</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>13</Hour>
        <Price>1208.3919</Price>
        <Volume>388.6</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>14</Hour>
        <Price>1095.651</Price>
        <Volume>410.2</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>15</Hour>
        <Price>1047.22005</Price>
        <Volume>360.4</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>16</Hour>
        <Price>947.9763</Price>
        <Volume>374.5</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>17</Hour>
        <Price>1200.9817</Price>
        <Volume>422.9</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>
        <Hour>18</Hour>
        <Price>1423.817</Price>
        <Volume>470.1</Volume>
    </Item>
    <Item>
        <Date>2010-01-02</Date>

```

```

    <Hour>19</Hour>
    <Price>1471.71865</Price>
    <Volume>462.6</Volume>
  </Item>
  <Item>
    <Date>2010-01-02</Date>
    <Hour>20</Hour>
    <Price>1378.03255</Price>
    <Volume>401.4</Volume>
  </Item>
  <Item>
    <Date>2010-01-02</Date>
    <Hour>21</Hour>
    <Price>1259.734</Price>
    <Volume>446.7</Volume>
  </Item>
  <Item>
    <Date>2010-01-02</Date>
    <Hour>22</Hour>
    <Price>1045.8968</Price>
    <Volume>436.3</Volume>
  </Item>
  <Item>
    <Date>2010-01-02</Date>
    <Hour>23</Hour>
    <Price>979.205</Price>
    <Volume>401.2</Volume>
  </Item>
  <Item>
    <Date>2010-01-02</Date>
    <Hour>24</Hour>
    <Price>793.95</Price>
    <Volume>384.5</Volume>
  </Item>
</Result>
</GetDamPriceEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.4 GetDamAllE (previous GetDAMPriceHour)

Returns results of settlement common day market CZ-SK.

Input parameters:

- StartDate – date from
- EndDate – date to
- StartHour - hour from
- EndHour - hour to
- InEur – optional parameter boolean type. If is set True, the service returns price (EUR) rounded at 2 decimal places, else returns price (CZK). Price in CZK is



calculated according to ČNB exchange rate from date, which is equal (or older) than delivery day.

Output structure with elements:

- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Hour – Hour No.
- PriceCZ – Price CZ [EUR/MWh]
- VolumeCZ – traded volume CZ [MWh]
- FlowCZSK – Border-crossing flow CZ->SK [MWh]
- FlowSKCR – Border-crossing flow SK->CZ [MWh]
- ImportCZ – SK->CZ MCC [MWh]
- ExportCZ – CZ->SK MCC [MWh]
- Emerg - value of the state of emergency (1 state of emergency was declared, 0 was not)

Example - Input request:

```
<?xml version="1.0" encoding="utf-8" ?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetDamAlle>
      <pub:StartDate>2012-05-30</pub:StartDate>
      <pub:EndDate>2010-05-30</pub:EndDate>
      <!--Optional:-->
      <pub:StartHour>1</pub:StartHour>
      <!--Optional:-->
      <pub:EndHour>25</pub:EndHour>
      <!--Optional:-->
      <pub:InEur>>false</pub:InEur>
    </pub:GetDamAlle>
  </soapenv:Body>
</soapenv:Envelope>
```

Example – Output:

```
<?xml version="1.0" encoding="utf-8" ?>
<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
```

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```

    <GetDamAllEResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2012-05-30</Date>
          <Hour>1</Hour>
          <PriceCZ>-3000</PriceCZ>
          <VolumeCZ>300</VolumeCZ>
          <FlowCZSK>100.0</FlowCZSK>
          <FlowSKCR>0.0</FlowSKCR>
          <ImportCZ>100.0</ImportCZ>
          <ExportCZ>100.0</ExportCZ>
        </Item>
        <Item>
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          <PriceCZ>-3000</PriceCZ>
          <VolumeCZ>300</VolumeCZ>
          <FlowCZSK>100.0</FlowCZSK>
          <FlowSKCR>0.0</FlowSKCR>
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          <ExportCZ>100.0</ExportCZ>
        </Item>
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          <PriceCZ>-3000</PriceCZ>
          <VolumeCZ>120</VolumeCZ>
          <FlowCZSK>20.0</FlowCZSK>
          <FlowSKCR>0.0</FlowSKCR>
          <ImportCZ>100.0</ImportCZ>
          <ExportCZ>100.0</ExportCZ>
        </Item>
        <Item>
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          <Hour>4</Hour>
          <PriceCZ>-3000</PriceCZ>
          <VolumeCZ>200</VolumeCZ>
          <FlowCZSK>100.0</FlowCZSK>
          <FlowSKCR>0.0</FlowSKCR>
          <ImportCZ>100.0</ImportCZ>
          <ExportCZ>100.0</ExportCZ>
        </Item>
        <Item>
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          <Hour>5</Hour>
          <PriceCZ>2230</PriceCZ>
          <VolumeCZ>220</VolumeCZ>
          <FlowCZSK>0.0</FlowCZSK>
          <FlowSKCR>100.0</FlowSKCR>
          <ImportCZ>100.0</ImportCZ>
          <ExportCZ>100.0</ExportCZ>
        </Item>
        <Item>
          <Date>2012-05-30</Date>

```

```

    <Hour>6</Hour>
    <PriceCZ>3000</PriceCZ>
    <VolumeCZ>102.9</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>32.9</FlowSKCR>
    <ImportCZ>100.0</ImportCZ>
    <ExportCZ>100.0</ExportCZ>
</Item>
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    <Hour>7</Hour>
    <PriceCZ>3000</PriceCZ>
    <VolumeCZ>140</VolumeCZ>
    <FlowCZSK>40.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
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    <ExportCZ>200.0</ExportCZ>
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<Item>
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    <Hour>8</Hour>
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    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>50.0</FlowSKCR>
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    <ExportCZ>50.0</ExportCZ>
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    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
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    <Hour>10</Hour>
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    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
    <Date>2012-05-30</Date>
    <Hour>11</Hour>
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    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>

```

```

        <ImportCZ>0.0</ImportCZ>
        <ExportCZ>0.0</ExportCZ>
    </Item>
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        <Hour>12</Hour>
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        <FlowCZSK>0.0</FlowCZSK>
        <FlowSKCR>0.0</FlowSKCR>
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        <ExportCZ>0.0</ExportCZ>
    </Item>
    <Item>
        <Date>2012-05-30</Date>
        <Hour>13</Hour>
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        <VolumeCZ>0</VolumeCZ>
        <FlowCZSK>0.0</FlowCZSK>
        <FlowSKCR>0.0</FlowSKCR>
        <ImportCZ>0.0</ImportCZ>
        <ExportCZ>0.0</ExportCZ>
    </Item>
    <Item>
        <Date>2012-05-30</Date>
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        <PriceCZ>0</PriceCZ>
        <VolumeCZ>0</VolumeCZ>
        <FlowCZSK>0.0</FlowCZSK>
        <FlowSKCR>0.0</FlowSKCR>
        <ImportCZ>0.0</ImportCZ>
        <ExportCZ>0.0</ExportCZ>
    </Item>
    <Item>
        <Date>2012-05-30</Date>
        <Hour>15</Hour>
        <PriceCZ>0</PriceCZ>
        <VolumeCZ>0</VolumeCZ>
        <FlowCZSK>0.0</FlowCZSK>
        <FlowSKCR>0.0</FlowSKCR>
        <ImportCZ>0.0</ImportCZ>
        <ExportCZ>0.0</ExportCZ>
    </Item>
    <Item>
        <Date>2012-05-30</Date>
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        <PriceCZ>0</PriceCZ>
        <VolumeCZ>0</VolumeCZ>
        <FlowCZSK>0.0</FlowCZSK>
        <FlowSKCR>0.0</FlowSKCR>
        <ImportCZ>0.0</ImportCZ>
        <ExportCZ>0.0</ExportCZ>
    </Item>
    <Item>
        <Date>2012-05-30</Date>

```

```

    <Hour>17</Hour>
    <PriceCZ>0</PriceCZ>
    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
    <Date>2012-05-30</Date>
    <Hour>18</Hour>
    <PriceCZ>0</PriceCZ>
    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
    <Date>2012-05-30</Date>
    <Hour>19</Hour>
    <PriceCZ>0</PriceCZ>
    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
    <Date>2012-05-30</Date>
    <Hour>20</Hour>
    <PriceCZ>0</PriceCZ>
    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
    <Date>2012-05-30</Date>
    <Hour>21</Hour>
    <PriceCZ>0</PriceCZ>
    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>
    <ImportCZ>0.0</ImportCZ>
    <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
    <Date>2012-05-30</Date>
    <Hour>22</Hour>
    <PriceCZ>0</PriceCZ>
    <VolumeCZ>0</VolumeCZ>
    <FlowCZSK>0.0</FlowCZSK>
    <FlowSKCR>0.0</FlowSKCR>

```

```
<ImportCZ>0.0</ImportCZ>
<ExportCZ>0.0</ExportCZ>
</Item>
<Item>
  <Date>2012-05-30</Date>
  <Hour>23</Hour>
  <PriceCZ>0</PriceCZ>
  <VolumeCZ>0</VolumeCZ>
  <FlowCZSK>0.0</FlowCZSK>
  <FlowSKCR>0.0</FlowSKCR>
  <ImportCZ>0.0</ImportCZ>
  <ExportCZ>0.0</ExportCZ>
</Item>
<Item>
  <Date>2012-05-30</Date>
  <Hour>24</Hour>
  <PriceCZ>0</PriceCZ>
  <VolumeCZ>0</VolumeCZ>
  <FlowCZSK>0.0</FlowCZSK>
  <FlowSKCR>0.0</FlowSKCR>
  <ImportCZ>0.0</ImportCZ>
  <ExportCZ>0.0</ExportCZ>
</Item>
</Result>
</GetDamAllEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### 1.3.5 GetImbalanceSettlementE(previous GetVicenaklady)

Returns results of imbalance settlement - electricity – for given period.

Input parameters:

- Version – settlement version (daily - 0, monthly - 1, final monthly - 2).
- StartDate – date from
- EndDate – date to
- StartHour – hour from
- EndHour – hour to

Output structure with elements:

- Version – settlement, possible values 0, 1, 2 (daily, monthly, final monthly)
- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)

- Hour – Hour No.
- SystemImbalance (MWh) – this item was missing
- Sum – Absolute Imbalances sum [MWh]
- PositiveImbalance – Positive Imbalances [MWh]
- NegativeImbalance – Negative Imbalances [MWh]
- RoundedImbalance – Rounded Imbalances [MWh]
- ReCost – RE Cost [CZK]
- ImbalanceCost – Imbalance Cost [CZK]
- SettImbalancePrice – Settlement Imbalance Price [CZK/MWh]
- SettCounterImbalancePrice – Settlement Counter Imbalance Price [CZK/MWh]
- Emerg - value of the state of emergency (1 state of emergency was declared, 0 was not)
- PriceWARE - Price according to protective RE components [CZK/MWh]
- PriceRE - Price according to RE components [CZK/MWh].
- PriceWAIM - Price according to IM components [CZK/MWh].
- PriceCurve - Price according to SO components [CZK/MWh]

#### Example - Input request:

```
<?xml version="1.0" encoding="UTF-8" ?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetImbalanceSettlementE>
      <pub:Version>0</pub:Version>
      <pub:StartDate>2023-03-27</pub:StartDate>
      <pub:EndDate>2023-03-27</pub:EndDate>
      <!--Optional:-->
      <pub:StartHour>1</pub:StartHour>
      <!--Optional:-->
      <pub:EndHour>25</pub:EndHour>
    </pub:GetImbalanceSettlementE>
  </soapenv:Body>
</soapenv:Envelope>
```

#### Example – Output:

2024 OTE, a.s.

Revize dne:  
30.5.2024

Document name:  
User manual web services OTE

```

<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetImbalanceSettlementEResponse
xmlns="https://www.isotetest.ote-cr.cz/schema/service/public">
      <Result>
        <Item>
          <Version>0</Version>
          <Date>2023-03-27</Date>
          <Hour>1</Hour>
          <SystemImbalance>155.231</SystemImbalance>
          <Sum>200.471</Sum>
          <PositiveImbalance>177.851</PositiveImbalance>
          <NegativeImbalance>-22.620</NegativeImbalance>
          <RoundedImbalance>-0.080</RoundedImbalance>
          <ReCost>191880.540</ReCost>
          <ImbalanceCost>-472536.080</ImbalanceCost>
          <SettlImbalancePrice>-2809.500</SettlImbalancePrice>
          <SettlCounterImbalancePrice>-
1199.660</SettlCounterImbalancePrice>
          <PriceWARE>-1231.46</PriceWARE>
          <PriceRE>-2266.20</PriceRE>
          <PriceWAIM>1868.12</PriceWAIM>
          <PriceCurve>-2809.50</PriceCurve>
        </Item>
        <Item>
          <Version>0</Version>
          <Date>2023-03-27</Date>
          <Hour>2</Hour>
          <SystemImbalance>54.404</SystemImbalance>
          <Sum>114.230</Sum>
          <PositiveImbalance>84.317</PositiveImbalance>
          <NegativeImbalance>-29.913</NegativeImbalance>
          <RoundedImbalance>-0.092</RoundedImbalance>
          <ReCost>-13170.000</ReCost>
          <ImbalanceCost>-65970.360</ImbalanceCost>
          <SettlImbalancePrice>-599.100</SettlImbalancePrice>
          <SettlCounterImbalancePrice>516.700</SettlCounterImbalancePrice>
          <PriceWARE>339.50</PriceWARE>
          <PriceRE>-599.10</PriceRE>
          <PriceWAIM>1708.85</PriceWAIM>
          <PriceCurve>-124.21</PriceCurve>
        </Item>
        <Item>
          <Version>0</Version>
          <Date>2023-03-27</Date>
          <Hour>3</Hour>
          <SystemImbalance>90.207</SystemImbalance>
          <Sum>163.001</Sum>
          <PositiveImbalance>126.604</PositiveImbalance>
          <NegativeImbalance>-36.397</NegativeImbalance>
          <RoundedImbalance>-0.098</RoundedImbalance>
          <ReCost>91620.720</ReCost>

```



```

        <ImbalanceCost>-444508.020</ImbalanceCost>
        <SettlImbalancePrice>-3742.320</SettlImbalancePrice>
        <SettlCounterImbalancePrice>-
804.590</SettlCounterImbalancePrice>
        <PriceWARE>-954.98</PriceWARE>
        <PriceRE>-3426.60</PriceRE>
        <PriceWAIM>1800.51</PriceWAIM>
        <PriceCurve>-3742.32</PriceCurve>
    </Item>
    <Item>
        <Version>0</Version>
        <Date>2023-03-27</Date>
        <Hour>4</Hour>
        <SystemImbalance>140.062</SystemImbalance>
        <Sum>168.462</Sum>
        <PositiveImbalance>154.262</PositiveImbalance>
        <NegativeImbalance>-14.200</NegativeImbalance>
        <RoundedImbalance>-0.087</RoundedImbalance>
        <ReCost>-50450.000</ReCost>
        <ImbalanceCost>-386874.890</ImbalanceCost>
        <SettlImbalancePrice>-2470.410</SettlImbalancePrice>

<SettlCounterImbalancePrice>407.360</SettlCounterImbalancePrice>
        <PriceWARE>364.53</PriceWARE>
        <PriceRE>-1980.20</PriceRE>
        <PriceWAIM>1708.87</PriceWAIM>
        <PriceCurve>-2470.41</PriceCurve>
    </Item>
    <Item>
        <Version>0</Version>
        <Date>2023-03-27</Date>
        <Hour>5</Hour>
        <SystemImbalance>225.014</SystemImbalance>
        <Sum>256.300</Sum>
        <PositiveImbalance>240.657</PositiveImbalance>
        <NegativeImbalance>-15.643</NegativeImbalance>
        <RoundedImbalance>-0.061</RoundedImbalance>
        <ReCost>-476051.500</ReCost>
        <ImbalanceCost>-174385.580</ImbalanceCost>
        <SettlImbalancePrice>-583.400</SettlImbalancePrice>

<SettlCounterImbalancePrice>2172.620</SettlCounterImbalancePrice>
        <PriceWARE>2119.35</PriceWARE>
        <PriceRE>-583.40</PriceRE>
        <PriceWAIM>1733.19</PriceWAIM>
        <PriceCurve>938.95</PriceCurve>
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        <Date>2023-03-27</Date>
        <Hour>6</Hour>
        <SystemImbalance>133.035</SystemImbalance>
        <Sum>276.225</Sum>
        <PositiveImbalance>204.630</PositiveImbalance>
        <NegativeImbalance>-71.595</NegativeImbalance>

```

```

    <RoundedImbalance>-0.067</RoundedImbalance>
    <ReCost>-474472.910</ReCost>
    <ImbalanceCost>-173559.160</ImbalanceCost>
    <SettlImbalancePrice>0.000</SettlImbalancePrice>

<SettlCounterImbalancePrice>2424.180</SettlCounterImbalancePrice>
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    <PriceRE>0.00</PriceRE>
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    <PriceCurve>1364.57</PriceCurve>
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    <Sum>190.090</Sum>
    <PositiveImbalance>65.197</PositiveImbalance>
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    <RoundedImbalance>-0.093</RoundedImbalance>
    <ReCost>2695598.770</ReCost>
    <ImbalanceCost>-2695598.380</ImbalanceCost>
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<SettlCounterImbalancePrice>24910.610</SettlCounterImbalancePrice>
    <PriceWARE>34587.17</PriceWARE>
    <PriceRE>40113.30</PriceRE>
    <PriceWAIM>3233.88</PriceWAIM>
    <PriceCurve>40441.62</PriceCurve>
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<Item>
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    <Sum>197.173</Sum>
    <PositiveImbalance>50.809</PositiveImbalance>
    <NegativeImbalance>-146.364</NegativeImbalance>
    <RoundedImbalance>-0.069</RoundedImbalance>
    <ReCost>511362.520</ReCost>
    <ImbalanceCost>-511362.380</ImbalanceCost>
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<SettlCounterImbalancePrice>4565.340</SettlCounterImbalancePrice>
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    <PriceWAIM>4071.34</PriceWAIM>
    <PriceCurve>7542.55</PriceCurve>
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    <Version>0</Version>
    <Date>2023-03-27</Date>
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    <SystemImbalance>-247.420</SystemImbalance>
    <Sum>337.058</Sum>

```

```

        <PositiveImbalance>44.819</PositiveImbalance>
        <NegativeImbalance>-292.239</NegativeImbalance>
        <RoundedImbalance>-0.059</RoundedImbalance>
        <ReCost>4067078.880</ReCost>
        <ImbalanceCost>-4067077.560</ImbalanceCost>
        <SettlImbalancePrice>16431.550</SettlImbalancePrice>

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<Item>
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    <Sum>404.377</Sum>
    <PositiveImbalance>150.596</PositiveImbalance>
    <NegativeImbalance>-253.781</NegativeImbalance>
    <RoundedImbalance>-0.061</RoundedImbalance>
    <ReCost>660403.000</ReCost>
    <ImbalanceCost>-2155433.470</ImbalanceCost>
    <SettlImbalancePrice>11662.900</SettlImbalancePrice>

<SettlCounterImbalancePrice>5341.370</SettlCounterImbalancePrice>
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    <PriceWAIM>4224.70</PriceWAIM>
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    <Sum>466.299</Sum>
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    <NegativeImbalance>-288.800</NegativeImbalance>
    <RoundedImbalance>-0.046</RoundedImbalance>
    <ReCost>5928082.900</ReCost>
    <ImbalanceCost>-5928081.410</ImbalanceCost>
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<SettlCounterImbalancePrice>51078.810</SettlCounterImbalancePrice>
    <PriceWARE>51920.08</PriceWARE>
    <PriceRE>103439.70</PriceRE>
    <PriceWAIM>4497.87</PriceWAIM>
    <PriceCurve>104051.85</PriceCurve>
</Item>
<Item>
    <Version>0</Version>
    <Date>2023-03-27</Date>
    <Hour>12</Hour>

```

```

        <SystemImbalance>55.748</SystemImbalance>
        <Sum>278.770</Sum>
        <PositiveImbalance>167.259</PositiveImbalance>
        <NegativeImbalance>-111.511</NegativeImbalance>
        <RoundedImbalance>-0.095</RoundedImbalance>
        <ReCost>-104969.950</ReCost>
        <ImbalanceCost>-291070.470</ImbalanceCost>
        <SettlImbalancePrice>0.000</SettlImbalancePrice>

<SettlCounterImbalancePrice>2610.240</SettlCounterImbalancePrice>
    <PriceWARE>2367.82</PriceWARE>
    <PriceRE>0.00</PriceRE>
    <PriceWAIM>3472.20</PriceWAIM>
    <PriceCurve>620.18</PriceCurve>
</Item>
<Item>
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    <Date>2023-03-27</Date>
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    <Sum>309.155</Sum>
    <PositiveImbalance>218.651</PositiveImbalance>
    <NegativeImbalance>-90.504</NegativeImbalance>
    <RoundedImbalance>-0.074</RoundedImbalance>
    <ReCost>-213990.340</ReCost>
    <ImbalanceCost>-153216.930</ImbalanceCost>
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<SettlCounterImbalancePrice>1692.930</SettlCounterImbalancePrice>
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    <PriceRE>0.00</PriceRE>
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    <PriceCurve>25.68</PriceCurve>
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    <Sum>158.466</Sum>
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    <NegativeImbalance>-85.925</NegativeImbalance>
    <RoundedImbalance>-0.054</RoundedImbalance>
    <ReCost>782440.580</ReCost>
    <ImbalanceCost>-381673.780</ImbalanceCost>
    <SettlImbalancePrice>17246.810</SettlImbalancePrice>

<SettlCounterImbalancePrice>15167.400</SettlCounterImbalancePrice>
    <PriceWARE>21910.95</PriceWARE>
    <PriceRE>17173.20</PriceRE>
    <PriceWAIM>3197.18</PriceWAIM>
    <PriceCurve>17246.81</PriceCurve>
</Item>
<Item>
    <Version>0</Version>

```

```

        <Date>2023-03-27</Date>
        <Hour>15</Hour>
        <SystemImbalance>-99.383</SystemImbalance>
        <Sum>234.649</Sum>
        <PositiveImbalance>67.633</PositiveImbalance>
        <NegativeImbalance>-167.016</NegativeImbalance>
        <RoundedImbalance>-0.074</RoundedImbalance>
        <ReCost>2628172.590</ReCost>
        <ImbalanceCost>-2628172.250</ImbalanceCost>
        <SettlImbalancePrice>26089.420</SettlImbalancePrice>
<SettlCounterImbalancePrice>25567.080</SettlCounterImbalancePrice>
        <PriceWARE>26089.42</PriceWARE>
        <PriceRE>40622.20</PriceRE>
        <PriceWAIM>2384.39</PriceWAIM>
        <PriceCurve>41168.80</PriceCurve>
</Item>
<Item>
        <Version>0</Version>
        <Date>2023-03-27</Date>
        <Hour>16</Hour>
        <SystemImbalance>132.943</SystemImbalance>
        <Sum>323.913</Sum>
        <PositiveImbalance>228.428</PositiveImbalance>
        <NegativeImbalance>-95.485</NegativeImbalance>
        <RoundedImbalance>-0.070</RoundedImbalance>
        <ReCost>88217.820</ReCost>
        <ImbalanceCost>-413569.590</ImbalanceCost>
        <SettlImbalancePrice>-2083.300</SettlImbalancePrice>
        <SettlCounterImbalancePrice>-
652.610</SettlCounterImbalancePrice>
        <PriceWARE>-658.99</PriceWARE>
        <PriceRE>-1618.00</PriceRE>
        <PriceWAIM>2361.52</PriceWAIM>
        <PriceCurve>-2083.30</PriceCurve>
</Item>
<Item>
        <Version>0</Version>
        <Date>2023-03-27</Date>
        <Hour>17</Hour>
        <SystemImbalance>232.806</SystemImbalance>
        <Sum>328.202</Sum>
        <PositiveImbalance>280.504</PositiveImbalance>
        <NegativeImbalance>-47.698</NegativeImbalance>
        <RoundedImbalance>-0.093</RoundedImbalance>
        <ReCost>162416.740</ReCost>
        <ImbalanceCost>-425198.480</ImbalanceCost>
        <SettlImbalancePrice>-1600.720</SettlImbalancePrice>
        <SettlCounterImbalancePrice>-
499.180</SettlCounterImbalancePrice>
        <PriceWARE>-663.90</PriceWARE>
        <PriceRE>-785.90</PriceRE>
        <PriceWAIM>2183.84</PriceWAIM>
        <PriceCurve>-1600.72</PriceCurve>
</Item>

```

```

<Item>
  <Version>0</Version>
  <Date>2023-03-27</Date>
  <Hour>18</Hour>
  <SystemImbalance>60.244</SystemImbalance>
  <Sum>203.668</Sum>
  <PositiveImbalance>131.956</PositiveImbalance>
  <NegativeImbalance>-71.712</NegativeImbalance>
  <RoundedImbalance>-0.082</RoundedImbalance>
  <ReCost>-87280.650</ReCost>
  <ImbalanceCost>-160923.060</ImbalanceCost>
  <SettlImbalancePrice>-371.700</SettlImbalancePrice>

<SettlCounterImbalancePrice>1560.060</SettlCounterImbalancePrice>
  <PriceWARE>1509.25</PriceWARE>
  <PriceRE>-371.70</PriceRE>
  <PriceWAIM>2021.58</PriceWAIM>
  <PriceCurve>523.54</PriceCurve>
</Item>
<Item>
  <Version>0</Version>
  <Date>2023-03-27</Date>
  <Hour>19</Hour>
  <SystemImbalance>-61.915</SystemImbalance>
  <Sum>344.981</Sum>
  <PositiveImbalance>141.533</PositiveImbalance>
  <NegativeImbalance>-203.448</NegativeImbalance>
  <RoundedImbalance>-0.089</RoundedImbalance>
  <ReCost>205310.360</ReCost>
  <ImbalanceCost>-443229.540</ImbalanceCost>
  <SettlImbalancePrice>4039.900</SettlImbalancePrice>

<SettlCounterImbalancePrice>2675.560</SettlCounterImbalancePrice>
  <PriceWARE>2870.46</PriceWARE>
  <PriceRE>4039.90</PriceRE>
  <PriceWAIM>2925.98</PriceWAIM>
  <PriceCurve>3412.53</PriceCurve>
</Item>
<Item>
  <Version>0</Version>
  <Date>2023-03-27</Date>
  <Hour>20</Hour>
  <SystemImbalance>22.684</SystemImbalance>
  <Sum>186.498</Sum>
  <PositiveImbalance>104.591</PositiveImbalance>
  <NegativeImbalance>-81.907</NegativeImbalance>
  <RoundedImbalance>-0.081</RoundedImbalance>
  <ReCost>4094933.500</ReCost>
  <ImbalanceCost>-4094933.140</ImbalanceCost>
  <SettlImbalancePrice>-57318.870</SettlImbalancePrice>
  <SettlCounterImbalancePrice>-
23198.320</SettlCounterImbalancePrice>
  <PriceWARE>-57318.87</PriceWARE>
  <PriceRE>-45951.00</PriceRE>
  <PriceWAIM>2599.42</PriceWAIM>

```

```

    <PriceCurve>-4634.19</PriceCurve>
  </Item>
  <Item>
    <Version>0</Version>
    <Date>2023-03-27</Date>
    <Hour>21</Hour>
    <SystemImbalance>-36.437</SystemImbalance>
    <Sum>212.207</Sum>
    <PositiveImbalance>87.885</PositiveImbalance>
    <NegativeImbalance>-124.322</NegativeImbalance>
    <RoundedImbalance>-0.061</RoundedImbalance>
    <ReCost>1103645.840</ReCost>
    <ImbalanceCost>-1103644.770</ImbalanceCost>
    <SettlImbalancePrice>20189.620</SettlImbalancePrice>
<SettlCounterImbalancePrice>16002.380</SettlCounterImbalancePrice>
  <PriceWARE>20189.62</PriceWARE>
  <PriceRE>29668.80</PriceRE>
  <PriceWAIM>2422.40</PriceWAIM>
  <PriceCurve>12300.70</PriceCurve>
</Item>
  <Item>
    <Version>0</Version>
    <Date>2023-03-27</Date>
    <Hour>22</Hour>
    <SystemImbalance>-89.747</SystemImbalance>
    <Sum>236.997</Sum>
    <PositiveImbalance>73.625</PositiveImbalance>
    <NegativeImbalance>-163.372</NegativeImbalance>
    <RoundedImbalance>-0.057</RoundedImbalance>
    <ReCost>370449.470</ReCost>
    <ImbalanceCost>-657157.010</ImbalanceCost>
    <SettlImbalancePrice>5291.400</SettlImbalancePrice>
<SettlCounterImbalancePrice>2815.750</SettlCounterImbalancePrice>
  <PriceWARE>3536.46</PriceWARE>
  <PriceRE>4797.80</PriceRE>
  <PriceWAIM>2604.64</PriceWAIM>
  <PriceCurve>5291.40</PriceCurve>
</Item>
  <Item>
    <Version>0</Version>
    <Date>2023-03-27</Date>
    <Hour>23</Hour>
    <SystemImbalance>-103.223</SystemImbalance>
    <Sum>271.121</Sum>
    <PositiveImbalance>83.949</PositiveImbalance>
    <NegativeImbalance>-187.172</NegativeImbalance>
    <RoundedImbalance>-0.049</RoundedImbalance>
    <ReCost>5113407.530</ReCost>
    <ImbalanceCost>-5113407.210</ImbalanceCost>
    <SettlImbalancePrice>45206.310</SettlImbalancePrice>
<SettlCounterImbalancePrice>39880.740</SettlCounterImbalancePrice>
  <PriceWARE>45206.31</PriceWARE>

```

```

    <PriceRE>92737.20</PriceRE>
    <PriceWAIM>2771.36</PriceWAIM>
    <PriceCurve>93304.92</PriceCurve>
  </Item>
  <Item>
    <Version>0</Version>
    <Date>2023-03-27</Date>
    <Hour>24</Hour>
    <SystemImbalance>-85.406</SystemImbalance>
    <Sum>251.216</Sum>
    <PositiveImbalance>82.905</PositiveImbalance>
    <NegativeImbalance>-168.311</NegativeImbalance>
    <RoundedImbalance>-0.081</RoundedImbalance>
    <ReCost>430162.400</ReCost>
    <ImbalanceCost>-543568.660</ImbalanceCost>
    <SettlImbalancePrice>5311.900</SettlImbalancePrice>

  <SettlCounterImbalancePrice>4227.520</SettlCounterImbalancePrice>
    <PriceWARE>4638.11</PriceWARE>
    <PriceRE>5311.90</PriceRE>
    <PriceWAIM>2234.64</PriceWAIM>
    <PriceCurve>4879.03</PriceCurve>
  </Item>
</Result>
</GetImbalanceSettlementEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.6 GetImPriceE (new)

Returns prices and volume Intra-day electricity market for given period.

Input parameters:

- StartDate – date from
- EndDate – date to
- StartHour - hour from
- EndHour - hour to

Output structure with elements:

- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Hour – Hour No.
- Price - Price [CZK/MWh]
- Volume – Traded volume [MWh]



- Emerg - value of the state of emergency (1 state of emergency was declared, 0 was not)

#### Example - Input request:

```
<?xml version="1.0" encoding="UTF-8" ?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetImPriceE>
      <pub:StartDate>2010-01-01</pub:StartDate>
      <pub:EndDate>2010-01-01</pub:EndDate>
      <!--Optional:-->
      <pub:StartHour>1</pub:StartHour>
      <!--Optional:-->
      <pub:EndHour>24</pub:EndHour>
    </pub:GetImPriceE>
  </soapenv:Body>
</soapenv:Envelope>
```

#### Example – Output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetImPriceEResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>1</Hour>
          <Price>0.0</Price>
          <Volume>0.0</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>2</Hour>
          <Price>0.0</Price>
          <Volume>0.0</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>3</Hour>
          <Price>0.0</Price>
          <Volume>0.0</Volume>
        </Item>
        <Item>
          <Date>2010-01-01</Date>
          <Hour>4</Hour>
          <Price>0.0</Price>
          <Volume>0.0</Volume>
        </Item>
      </Result>
    </GetImPriceEResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```

</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>5</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>6</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>7</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>8</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>9</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>10</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>11</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>12</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>13</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>

```

```

<Item>
  <Date>2010-01-01</Date>
  <Hour>14</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>15</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>16</Hour>
  <Price>1000.0</Price>
  <Volume>3.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>17</Hour>
  <Price>1000.0</Price>
  <Volume>3.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>18</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>19</Hour>
  <Price>1.0</Price>
  <Volume>0.5</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>20</Hour>
  <Price>0.0</Price>
  <Volume>0.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>21</Hour>
  <Price>1000.0</Price>
  <Volume>3.0</Volume>
</Item>
<Item>
  <Date>2010-01-01</Date>
  <Hour>22</Hour>
  <Price>1080.0</Price>
  <Volume>15.0</Volume>
</Item>
<Item>

```

```

        <Date>2010-01-01</Date>
        <Hour>23</Hour>
        <Price>1125.0</Price>
        <Volume>8.0</Volume>
    </Item>
    <Item>
        <Date>2010-01-01</Date>
        <Hour>24</Hour>
        <Price>1059.4</Price>
        <Volume>8.0</Volume>
    </Item>
</Result>
</GetImPriceEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.7 GetImPriceG (new)

Returns prices and volume Intra-day gas market for given period.

Input parameters:

- StartDate – date from
- EndDate – date to

Output structure with elements:

- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Price - Price [EUR/MWh]
- Volume – Traded volume [MWh]
- MinPrice – Minimal price [EUR/MWh]
- MaxPrice – Maximal price [EUR/MWh]
- IndexOTE - Index OTE [EUR/MWh]

Example - Input request:

```

<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetImPriceG>
      <pub:StartDate>2022-03-09</pub:StartDate>
      <pub:EndDate>2022-03-09</pub:EndDate>
    </pub:GetImPriceG>
  </soapenv:Body>
</soapenv:Envelope>

```

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```

    </pub:GetImPriceG>
  </soapenv:Body>
</soapenv:Envelope>

```

#### Example – Output:

```

<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetImPriceGResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2022-03-09</Date>
          <Price>179.56</Price>
          <Volume>6356.4</Volume>
          <MinPrice>143.60</MinPrice>
          <MaxPrice>195.00</MaxPrice>
          <IndexOte>179.557</IndexOte>
        </Item>
      </Result>
    </GetImPriceGResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.8 GetImbalanceNCBALSettlementG

Returns results of imbalance settlement NC Bal - gas - for given period.

Input parameters:

- Version – settlement version (daily - 0, monthly - 1, final monthly - 2).
- StartDate – date from
- EndDate – date to

Output structure with elements:

- Date - date according to W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Version – settlement version (daily - 0, monthly - 1, final monthly - 2)
- SystemImbalance – System Imbalance [MWh]
- PositiveImbalance – Positive Imbalance [MWh]
- NegativeImbalance – Negative Imbalance [MWh]
- TransferTsDs – Flow from PS to DS [MWh]
- CnbRate – ČNB exchange rate [CZK/EUR]
- IndexOTE [EUR/MWh]
- PositiveImbalancePriceCZK (CZK/MWh) – Applicable price for positive imbalance quantity (Kč/MWh)
- NegativeImbalancePriceCZK (CZK/MWh) - Applicable price for negative imbalance quantity (Kč/MWh)
- PositiveImbalancePriceEUR (EUR/MWh) - Applicable price for positive imbalance quantity (EUR/MWh)
- NegativeImbalancePriceEUR (EUR/MWh) - Applicable price for negative imbalance quantity (EUR/MWh)
- MonthBalancingGasPrice (CZK) - Month balancing gas price (CZK)

Example - Input request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
```

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```

    <pub:GetImbalanceNCBALSettlementG>
      <pub:Version>0</pub:Version>
      <pub:StartDate>2016-07-01</pub:StartDate>
      <pub:EndDate>2016-07-01</pub:EndDate>
    </pub:GetImbalanceNCBALSettlementG>
  </soapenv:Body>
</soapenv:Envelope>

```

### Example – Output:

```

<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetImbalanceNCBALSettlementGResponse
xmlns="https://www.isotetest.ote-cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2016-07-01</Date>
          <Version>0</Version>
          <SystemImbalance>-13932.541</SystemImbalance>
          <PositiveImbalance>3179.884</PositiveImbalance>
          <NegativeImbalance>-17112.762</NegativeImbalance>
          <TransferTsDs>0.0</TransferTsDs>
          <CnbRate>27.025</CnbRate>
          <IndexOTE>11.55</IndexOTE>

          <PositiveImbalancePriceCZK>305.896</PositiveImbalancePriceCZK>

          <NegativeImbalancePriceCZK>316.63</NegativeImbalancePriceCZK>

          <PositiveImbalancePriceEUR>11.319</PositiveImbalancePriceEUR>

          <NegativeImbalancePriceEUR>11.716</NegativeImbalancePriceEUR>
          <MonthBalancingGasPrice>234.567</MonthBalancingGasPrice>
        </Item>
      </Result>
    </GetImbalanceNCBALSettlementGResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.9 GetImbalanceSettlementPeriodE

Returns the results of the calculation of deviations for electricity for the specified period in 15 minute periods.

Input parameters:

- Version – settlement version
- StartDate – Date from
- EndDate – Date to

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- StartPeriod -Period from (optional parameter)
- EndPeriod – Period to (optional parameter)

Output structure with the following elements.

- Date - date in recommended format W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- PeriodResolution – time period resolution (PT60M, PT15M)
- Period – time period
- SystemImbalance – System Imbalance [MWh]
- Sum - Sum of absolute deviations [MWh]
- PositiveImbalance – positive deviation [MWh]
- NegativeImbalance – negative deviation [MWh]
- RoundedImbalance - Rounding deviations[MWh]
- ReCost – Costs of RE [Kč]
- ImbalanceCost – Deviation costs [Kč]
- SettlImbalancePrice – The clearing price of the deviation [Kč/MWh]
- SettlCounterImbalancePrice – Counter deviation settlement price [Kč/MWh]
- PriceWARE - Price according to the weighted average of RE costs [Kč/MWh]
- PriceRE - Price according to delivered RE against SO direction [Kč/MWh]
- PriceWAIM - Price according to the weighted average of store prices on IDM [Kč/MWh]
- PriceCurve - Price according to the curve (basic guideline SO) [Kč/MWh]

Example of an input request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetImbalanceSettlementPeriodE>
      <pub:Version>0</pub:Version>
      <pub:StartDate>2020-01-01</pub:StartDate>
      <pub:EndDate>2025-01-01</pub:EndDate>
    </pub:GetImbalanceSettlementPeriodE>
  </soapenv:Body>
</soapenv:Envelope>
```

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```

    </pub:GetImbalanceSettlementPeriodE>
  </soapenv:Body>
</soapenv:Envelope>

```

#### Example of an answer:

```

<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetImbalanceSettlementPeriodEResponse
xmlns="https://www.isotetest.ote-cr.cz/schema/service/public">
      <Result>
        <Item>
          <Version>0</Version>
          <Date>2020-01-01</Date>
          <PeriodResolution>PT60M</PeriodResolution>
          <Period>1</Period>
          <SystemImbalance>0.000</SystemImbalance>
          <Sum>537.124</Sum>
          <PositiveImbalance>317.283</PositiveImbalance>
          <NegativeImbalance>-219.841</NegativeImbalance>
          <RoundedImbalance>-0.042</RoundedImbalance>
          <ReCost>22191.500</ReCost>
          <ImbalanceCost>-108303.636</ImbalanceCost>
          <SettlImbalancePrice>-342.040</SettlImbalancePrice>
          <SettlCounterImbalancePrice>-
1.000</SettlCounterImbalancePrice>
          <PriceWARE>0.00</PriceWARE>
          <PriceRE>0.00</PriceRE>
          <PriceWAIM>0.00</PriceWAIM>
          <PriceCurve>0.00</PriceCurve>
        </Item>
      </Result>
    </GetImbalanceSettlementPeriodEResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.10 GetImPricePeriodE

Returns prices and quantities for intraday markets for the specified period in 15-minute periods.

Input parameters:

- StartDate – Date from
- EndDate – Date to
- StartPeriod -Period from (optional parameter)
- EndPeriod – Period to (optional parameter)

Output structure with the following elements.

- Date - date in recommended format W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)

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```

        <Date>2024-09-09</Date>
        <PeriodResolution>PT15M</PeriodResolution>
        <Period>96</Period>
        <Price>96.00</Price>
        <Volume>1548.823</Volume>
    </Item>
</Result>
</GetImPricePeriodEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.11 GetIDAPriceE

Returns the energy value and hourly price in EUR from the IDA for the specified period and auction.

Input parameters:

- StartDate – Date from
- EndDate – Date to
- StartHour – An hour from (optional parameter)
- EndHour – An hour to (optional parameter)
- Auction – Auction type (optional parameter)
- InEur – optional parameter type of boolean. If set (true), returns the price in EUR mathematically rounded to two decimal places, otherwise in CZK. The price in CZK is recalculated according to the CNB exchange rate from a date that is equal to (or older than) the day of delivery

Output structure with the following elements.

- Date - date in recommended format W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Auction - Auction type (optional parameter)
- Hour - hour number
- Price - price [EUR/MWh]
- Volume - Traded quantity [MWh]

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- Emerg – value of the state of emergency (1 was declared a state of emergency, 0 was not)

#### Example of an input request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetIDAPriceE>
      <pub:StartDate>2020-01-01</pub:StartDate>
      <pub:EndDate>2025-01-01</pub:EndDate>
      <pub:Auction>IDA1</pub:Auction>
    </pub:GetIDAPriceE>
  </soapenv:Body>
</soapenv:Envelope>
```

#### Example of an answer:

```
<SOAP-ENV:Envelope                                SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetIDAPriceEResponse                          xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2023-10-24</Date>
          <Auction>IDA1</Auction>
          <Hour>1</Hour>
          <Price>290.44</Price>
          <Volume>4.000</Volume>
          <Emerg>0</Emerg>
        </Item>
        <Item>
          <Date>2023-10-24</Date>
```

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```

        <Auction>IDA1</Auction>
        <Hour>2</Hour>
        <Emerg>1</Emerg>
    </Item>
    <Item>
        <Date>2023-10-24</Date>
        <Auction>IDA1</Auction>
        <Hour>3</Hour>
        <Emerg>1</Emerg>
    </Item>
</Result>
</GetIDAPriceEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

### 1.3.12 GetIDAAllE

Returns the results of IDA settlement.

Input parameters:

- StartDate – Date from
- EndDate – Date to
- StartHour – An hour from (optional parameter)
- EndHour – An hour to (optional parameter)
- Auction – Auction type (optional parameter)

InEur – optional parameter type of boolean. If set (true), returns the price in EUR mathematically rounded to two decimal places, otherwise in CZK. The price in CZK is recalculated according to the CNB exchange rate from a date that is equal to (or older than) the day of delivery

Output structure with the following elements.

- Date - date in recommended format W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- Hour – hour number
- PriceCZ – price ČR [EUR/MWh]
- VolumeCZ - Traded quantity for the Czech Republic [MWh]

- FlowCZSK – Border-crossing flow ČR->SR [MWh]
- FlowSKCR - Border-crossing flow SR->ČR [MWh]
- ImportCZ – SR->ČR MCC [MWh]
- ExportCZ – ČR->SR MCC [MWh]

#### Example of an input request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetIDAAlle>
      <pub:StartDate>2020-01-01</pub:StartDate>
      <pub:EndDate>2025-01-01</pub:EndDate>
      <pub:EndHour>1</pub:EndHour>
      <pub:Auction>IDA1</pub:Auction>
    </pub:GetIDAAlle>
  </soapenv:Body>
</soapenv:Envelope>
```

#### Example of an answer:

```
<SOAP-ENV:Envelope                                SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetIDAAlleResponse                             xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2023-10-24</Date>
          <Hour>1</Hour>
          <PriceCZ>290.44</PriceCZ>
          <VolumeCZ>4.0</VolumeCZ>
          <ImportCZ>0.0</ImportCZ>
          <ExportCZ>4.0</ExportCZ>
          <SaldoCZ>4.0</SaldoCZ>
          <Emerg>0</Emerg>
```

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```
        </Item>
        ...
    </Result>
</GetIDAAllEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### 1.3.13 GetIDAPricePeriodE

Returns the energy value and price in EUR from IDA for the specified period and auction in 15/60 minutes.

Input parameters:

- StartDate – Date from
- EndDate – Date to
- StartPeriod - Period from (optional parameter)
- EndPeriod – Period to (optional parameter)
- Auction – Auction type (optional parameter)
- An hour toInEur – optional parameter type of boolean. If set (true), returns the price in EUR mathematically rounded to two decimal places, otherwise in CZK. The price in CZK is recalculated according to the CNB exchange rate from a date that is equal to (or older than) the day of delivery

Output structure with the following elements.

- Date - date in recommended format W3C (<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/datatypes.html#date>)
- PeriodResolution
- PeriodIndex
- PeriodInterval
- Auction
- Emerg – value of the state of emergency (1 was declared a state of emergency, 0 was not)
- PriceCZ – price eČR [EUR/MWh]
- VolumeCZ - Traded quantity for the Czech Republic [MWh]

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- ImportCZ – SR->ČR MCC [MWh]
- ExportCZ – ČR->SR MCC [MWh]
- SaldoCZ

#### Example of an input request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetIDAPricePeriodE>
      <pub:StartDate>2020-01-01</pub:StartDate>
      <pub:EndDate>2025-01-01</pub:EndDate>
      <pub:Auction>IDA1</pub:Auction>
    </pub:GetIDAPricePeriodE>
  </soapenv:Body>
</soapenv:Envelope>
```

#### Example of an answer:

```
SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetIDAPricePeriodEResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
          <Date>2023-10-24</Date>
          <PeriodResolution>PT60M</PeriodResolution>
          <PeriodIndex>1</PeriodIndex>
          <PeriodInterval>00-01</PeriodInterval>
          <Auction>IDA1</Auction>
          <Emerg>0</Emerg>
          <Price>290.44</Price>
          <Volume>4.000</Volume>
        </Item>
        ...
      </Result>
    </GetIDAPricePeriodEResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```



### 1.3.14 GetIDAAllPeriodE

Returns IDA settlement results in 15/60 minutes.

Input parameters:

- StartDate – Date from
- EndDate – Date to
- StartPeriod - Period from (optional parameter)
- EndPeriod – Period to (optional parameter)
- Auction – Auction type (optional parameter)
- An hour toInEur – optional parameter type of boolean. If set (true), returns the price in EUR  
mathematically rounded to two decimal places, otherwise in CZK. The price in CZK is recalculated according to the CNB exchange rate from a date that is equal to (or older than) the day of delivery

Output structure with the following elements.

Example of an input request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:pub="https://www.isotetest.ote-cr.cz/schema/service/public">
  <soapenv:Header/>
  <soapenv:Body>
    <pub:GetIDAAllPeriodE>
      <pub:StartDate>2020-01-01</pub:StartDate>
      <pub:EndDate>2025-01-01</pub:EndDate>
      <pub:Auction>IDA1</pub:Auction>
    </pub:GetIDAAllPeriodE>
  </soapenv:Body>
</soapenv:Envelope>
```

Example of an answer:

```
<SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetIDAAllPeriodEResponse xmlns="https://www.isotetest.ote-
cr.cz/schema/service/public">
      <Result>
        <Item>
```

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```
<Date>2023-10-24</Date>
<PeriodResolution>PT60M</PeriodResolution>
<PeriodIndex>1</PeriodIndex>
<PeriodInterval>00-01</PeriodInterval>
<Auction>IDA1</Auction>
<Emerg>0</Emerg>
<PriceCZ>290.44</PriceCZ>
<VolumeCZ>4.0</VolumeCZ>
<ImportCZ>0.0</ImportCZ>
<ExportCZ>4.0</ExportCZ>
<SaldoCZ>4.0</SaldoCZ>
</Item>
</Result>
</GetIDAAllPeriodEResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```