

**Application Programming Interface (API)
Specification for JSC “Market operator”
(Version 2.0)**

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1. General Description of the Interface

The Application Programming Interface (API) of JSC “Market operator” (hereinafter referred to as the “web service”) operates using the HTTPS protocol based on the principles of the REST JSON API and is designed to retrieve public information posted on the JSC “Market operator” website.

Web service endpoints:

Address	Request Type	Description
https://api.oree.com.ua/v2/damprices	GET	Retrieve information regarding prices on the Day-Ahead Market
https://api.oree.com.ua/v2/damtrading	GET	Retrieve hourly day-ahead market auction results
https://api.oree.com.ua/v2/damindexeswap	GET	Retrieving information on the DAM price indices, price cap, as well as the weighted average price
https://api.oree.com.ua/v2/idmtrading	GET	Get hourly trading results on the IDM and price cap
https://api.oree.com.ua/v2/idmwap	GET	Get information on the weighted average price on the IDM
https://api.oree.com.ua/v2/damindexes	GET	Retrieve information on day-ahead market price indices, taking into account the periods during which price caps apply

The information generated by the web service is based on the EET/EEST time zone. An example of a request to the web service is provided below:

```
GET https://api.oree.com.ua/v2/damtrading?date=26.08.2025 HTTP/1.1
Accept: application/json, */*
X-API-KEY: cSmwbkL.....6C7hzMV2hl4
Host: www.oree.com.ua Connection:
Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
```

Data exchange with the web service occurs in synchronous mode. If no data is available, the web service returns an empty JSON array.

2. User Authentication

User authentication is performed using the X-API-KEY header, which must contain a unique user code (obtained upon request). If the API key is not provided or is not registered in the system, the web service will return a 403 error code:

```
HTTP/1.1 403 Forbidden
Date: Mon, 01 Sep 2025 08:32:01 GMT
Server: Apache/2.4.57 (Win64) mod_fcgid/2.3.10-dev X-
Powered-By: PHP/7.2.6
```

Content-Length: 0
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive

3. DAMPRICES Interface

This interface is designed to retrieve information on day-ahead market prices for the next calendar day. The response is provided as a JSON array.

The table below describes the elements included in the body of the response from the interface:

Element Name	Type	Description
trade_zone	string	Trade zone: 10Y1001C—000182 – Integrated Power System of Ukraine
trade_day	string	Delivery day: YYYY-MM-DD
data	array[HourPrice]	
HourPrice type		
period	integer	Period: 1–24 (23/25 on days when daylight saving time begins or ends)
price	float	Clearing price, UAH/MWh

An example of a successful response from the web service is provided below:

```
[
  {
    "trade_zone": "10Y1001C--000182", "trade_day":
    "2025-06-05",
    "data": [
      {
        "period": 1,
        "price": 3780
      },
      /* ... other periods 2–23 ... */
      {
        "period": 24,
        "price": 4,600
      }
    ]
  }
]
```

4. DAMTRADING Interface

The interface is designed to retrieve hourly trading results from the Day-Ahead Market (DAM). The query parameters are as follows:

Element Name	Description
date	Date in DD.MM.YYYY format. If not specified, data for the next calendar day is returned

A description of the elements included in the body of the response from the web service is provided in the table below:

Element Name	Type	Description
trade_day	string	Delivery date in the format: YYYY-MM-DD
trade_zone	string	Trade zone (EIC code): 10YUA-WEPS----- 0 – BuOs 10Y1001C--000182 – – Integrated Power

		System of Ukraine
data	array[DAMHourData]	
DAMHourData Type		
period	integer	Hour: 1–24 (23/25 on days when to daylight saving time/standard time)
price	float	Price, UAH/MWh
sale_volume	float	Sales volume, MWh
purchase_volume	float	Purchase volume, MWh
declared_sale_volume	float	Declared sales volume, MWh
declared_purchase_volume	float	Declared purchase volume, MWh
price_cap_max	float	Maximum price cap, UAH/MWh
price_cap_min	float	Minimum price cap, UAH/MWh

An example of a successful response from the web service is provided below:

```
[{
  "trade_day": "2025-08-27", "trade_zone":
  "10Y1001C--000182", "data": [
    {
      "period": 1,
      "price": 5160,
      "sale_volume": 2552,
      "purchase_volume": 2552,
      "declared_sale_volume": 3,110.8,
      "declared_purchase_volume": 2,556.4,
      "price_cap_max": 5,600,
      "price_cap_min": 10,
    }
    /* ... other periods 2–23 ... */
    {
      "period": 24,
      "price": 5700,
      "sale_volume": 2632.4,
      "purchase_volume": 2,632.4,
      "declared_sale_volume": 3,662,
      "declared_purchase_volume": 2,632.6,
      "price_cap_max": 6,600,
      "price_cap_min": 10,
    }
  ]
}
```

5. DAMINDEXESWAP Interface

This interface is designed to retrieve DAM price indices: BASE, PEAK, OFFPEAK, as well as the minimum, maximum, and weighted average DAM prices for a selected date. The response is provided as a JSON array of objects organized by trading zones. The request parameters are as follows:

Element Name	Description
date	Date in DD.MM.YYYY format. If not specified, data for the next calendar day is returned

A description of the elements included in the body of the response from the web service is provided in the table below:

Element Name	Type	Description
trade_day	string	Delivery date in the format: YYYY-MM-DD
trade_zone	string	Trading zone (EIC code): 10YUA-WEPS ----- 0 – BuOs 10Y1001C--000182 – Integrated Power System of Ukraine
data	IndexData	
IndexData Type		
base_price	float	Base load price, UAH/MWh
peak_price	float	Peak load price, UAH/MWh
offpeak_price	float	Off-peak price, UAH/MWh
min_price	float	Minimum price, UAH/MWh
max_price	float	Maximum price, UAH/MWh
weighted_price	float	Weighted average price, UAH/MWh

An example of a successful response from the web service is provided below:

```
[
  {
    "trade_day": "2025-08-27", "trade_zone":
    "10Y1001C--000182", "data": {
      "base_price": 4801.5,
      "peak_price": 2680,
      "offpeak_price": 6623.01,
      "min_price": 87,
      "max_price": 10,500,
      "weighted_price": 4633.43
    }
  }
]
```

6. IDMTRADING Interface

The interface is designed to retrieve hourly trading results on the IDM: price, buy/sell volumes, quoted volumes, and limit price for the selected date. The response is formatted as a JSON array of objects organized by trading zones. The request parameters are as follows:

Element Name	Description
date	Date in DD.MM.YYYY format. If not specified, data for the previous calendar day is returned

A description of the elements included in the body of the response from the web service is provided in the table below:

Element Name	Type	Description
trade_day	string	Delivery date in the format: YYYY-MM-DD
trade_zone	string	Trade zone (EIC code): 10YUA-WEPS -----0 – BuOs 10Y1001C--000182 – – Integrated Power System of Ukraine
data	array[IDMHourData]	
IDMHourData Type		
period	integer	Hour: 1–24 (23/25 on days when daylight saving time begins or ends)
price	float	Price, UAH/MWh
last_price	float	Last price, UAH/MWh
sale_volume	float	Sales volume, MWh
purchase_volume	float	Purchase volume, MWh
declared_sale_volume	float	Declared sales volume, MWh
declared_purchase_volume	float	Declared purchase volume, MWh
price_cap_max	float	Maximum price cap, UAH/MWh
price_cap_min	float	Minimum price cap, UAH/MWh

An example of a successful response from the web service is provided below:

```
[
  {
    "trade_day": "2025-08-27", "trade_zone":
    "10Y1001C--000182", "data": [
      {
        "period": 1,
        "price": 5126.65,
        "last_price": 5186.62,
        "sale_volume": 86,
        "purchase_volume": 86,
        "declared_sale_volume": 255.6,
        "declared_purchase_volume": 163.8,
        "price_cap_max": 5,600,
        "price_cap_min": 10,
      }
      /* ... other periods 2–23 ... */
      {
        "period": 24,
        "price": 5645.53,
        "last_price": 5,472,
        "sale_volume": 124.8,
        "purchase_volume": 124.8,
        "declared_sale_volume": 434.6,
        "declared_purchase_volume": 148.3,
        "price_cap_max": 6600,
        "price_cap_min": 10,
      }
    ]
  }
]
```

7. IDMWAP Interface

The interface returns the daily weighted average price of IDM for the selected date. The response is formatted as a JSON array of objects organized by trading zones. The request parameters are as follows:

Element Name	Description
date	Date in the format DD.MM.YYYY. If not specified, data for the previous calendar day is returned

A description of the elements included in the body of the response from the web service is provided in the table below:

Element Name	Type	Description
trade_day	string	Trading date in the format: YYYY-MM-DD
trade_zone	string	Trading zone (EIC code): 10YUA-WEPS -----0 – BuOs 10Y1001C--000182 -- Integrated Power System of Ukraine
data	PriceData	
PriceData Type		
weighted_price	float	Weighted average price, UAH/MWh

An example of a successful response from the web service is provided below:

```
[
  {
    "trade_day": "2025-08-07", "trade_zone":
    "10Y1001C--000182", "data": {
      "weighted_price": 4136.86,
    } }
]
```

8. DAMINDEXES Interface

This interface is designed to retrieve DAM price indices, taking into account the periods during which price caps are in effect for the selected date. The response is provided as a JSON array of objects organized by zone. The request parameters are as follows:

Element Name	Description
date	Date in DD.MM.YYYY format. If not specified, data for the next calendar day is returned

A description of the elements included in the body of the response from the web service is provided in the table below:

Element Name	Type	Description
trade_day	string	Delivery date in the format: YYYY-MM-DD
trade_zone	string	Trading zone (EIC code): 10Y1001C--000182 -- Integrated Power System of Ukraine
data	IndexList	
IndexList type		

DAY	PriceData	DAY Index
NIGHT	PriceData	NIGHT Index
PEAK	PriceData	PEAK Index
HPEAK	PriceData	HALF-PEAK Index
BASE	PriceData	BASE Index
Type PriceData		
price	float	Index value, UAH/MWh
percent	float	Percentage change in the index compared to the previous day

An example of a successful response from the web service is provided below:

```
{
  "trade_zone": "10Y1001C--000182",
  "trade_day": "2025-06-03",
  "data": {
    "DAY": {
      "price": 3840.81,
      "percent": -0.11
    }, "NIGHT":
    {
      "price": 2,160.38,
      "percent": 16.23
    },
    "PEAK": {
      "price": 7,655.33,
      "percent": 6.83
    }, "HPEAK":
    {
      "price": 1,552.06,
      "percent": -21.21
    }, "BASE":
    {
      "price": 3,280.66,
      "percent": 3.07
    }
  }
}
```