

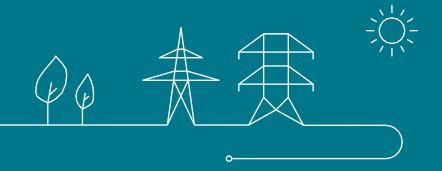


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- 4. How to use TraXes
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(Re)Introduction to Faster Settlement



Introduction to faster Settlement for BSP



Faster processes for the Settlement for FCR, aFRR and mFRR:

- Remuneration of awarded capacity (November 2025)
- Remuneration of activations (not applicable for FCR) (November 2025)
- Penalties for availability/obligation control (mid 2026)
- Penalties for activations control (mid 2026)

Proposed improvements:

- An accelerated calculation and provision of the settlement reportings to the BSP (at the latest for end of M+1)
- The publication of the settlement reportings and invoices on a unique communication platform (= EPIC)
- The switch from traditional billing process to a self-billing process (i.e., self-bills for remuneration and invoices for penalties)
- The provision of settlement and metering data to BSPs via API's through the TraXes platform

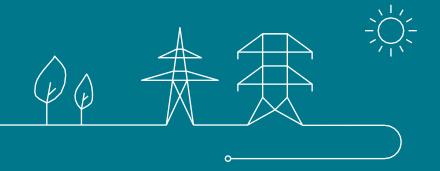
Two training sessions planned:

- Practical training on using the API's available via the TraXes platform (18/09 \rightarrow This session)
- Comprehensive training covering the full process flow with EPIC (25/09 \rightarrow Next week's session)





Introduction to TraXes

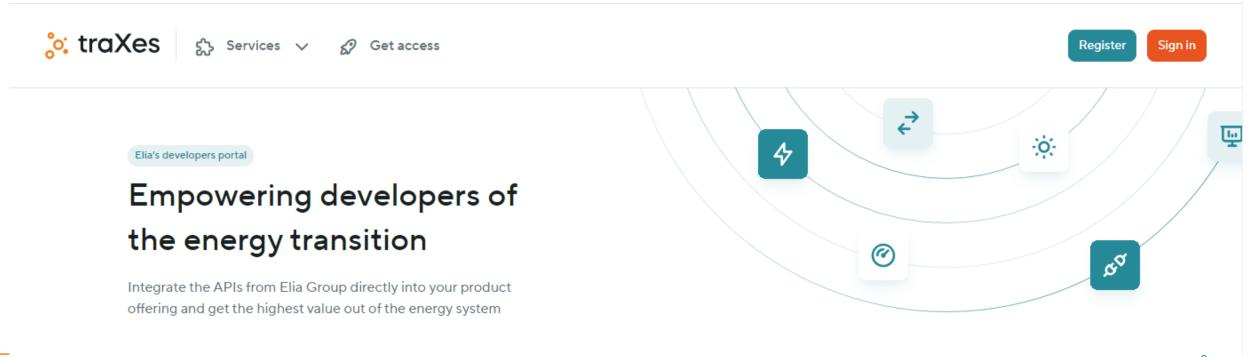


Introduction to TraXes



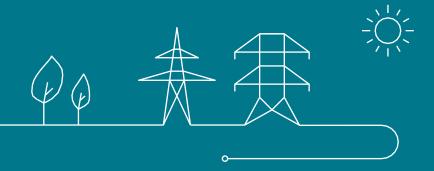
- TraXes is the Elia Group's developer portal for digital data access
- Forms the ultimate **hub** for energy stakeholders to **access essential components** from Elia Group via **APIs**
- Enables users to develop their own services and solutions using Elia's data
- Provides third-party access to settlement, metering and market-related data via secure APIs

https://www.traxes.io/





Practical uses of the traXes APIs



Practical applications of the API's

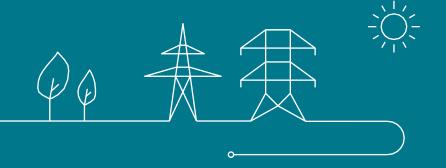


- Access all remuneration data, previously available through Settlement UI interface, via APIs
 - All remuneration data will remain available through a web-based platform
- Approve bills and launch self-bills directly through API calls, streamlining the settlement and invoicing process
- Enable BSPs to develop custom tools and dashboards tailored to their operational needs
- Note that these API's are not yet published on TraXes but will be published together with the full EPIC selfbilling release in November 2025





How to use TraXes

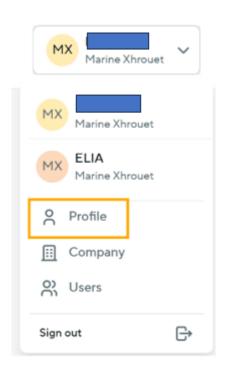


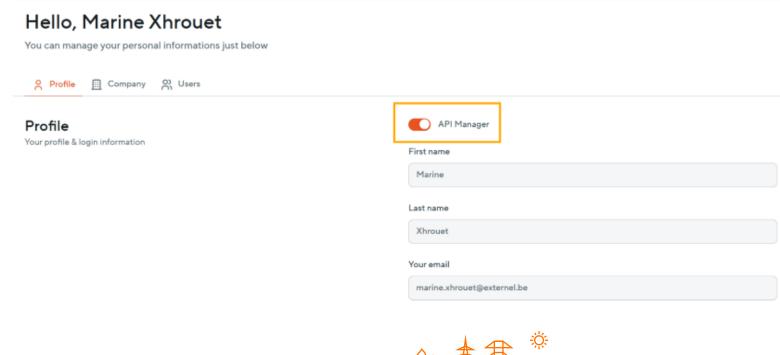
How to use TraXes & the APIs



- Log in to the TraXes production environment: https://www.traxes.io/
- If you do not have an account yet, ask your BSP admin to create one for you in EPIC

 The role of BSP admin was given to one of your colleagues when the BSPs were onboarded onto TraXes & EPIC
- Make sure you have the "API manager" role enabled This can be checked under your profile:







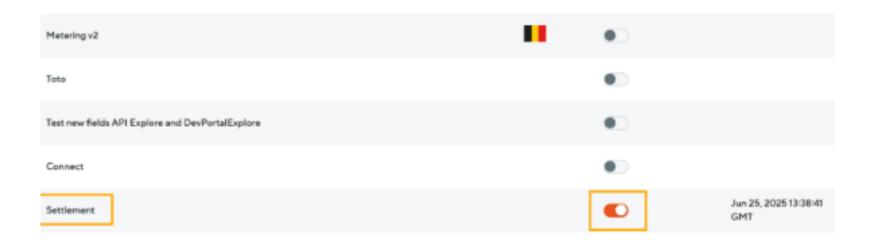
How to use TraXes & the API's



- Set up your application and your service:



- Use an existing application
- Select the "Settlement" service:





How to use TraXes & the API's



Get the client ID/secret		-	
TestSettlementTst		Get client ID/Secret	Collapse ^
Services/APIs	Market	Access to production	ActivationDate
Data access for requester			
Imbalance price forecast			
Metering Data		•	
GreenGrid Compass	-	•	
Metering v2		•	
Toto		•	
Test new fields API Explore and DevPortalExplore		•	
Connect		•	
Settlement			Jun 25, 2025 13:38:41 GMT

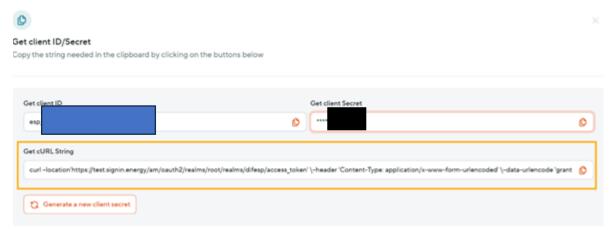
Important: copy the client ID & secret and store it somewhere, they are only displayed **once.** If you don't save them you will have to regenerate the client ID / Secret

If you generate a new client ID / secret, the previous one will remain valid for 30 days



How to use TraXes & the API's





Now that you have your ClientID & Secret, you can generate your bearer token, for example with the following curl

curl --location 'https://test.signin.energy/am/oauth2/realms/root/realms/difesp/access_token' \

- --header 'Content-Type: application/x-www-form-urlencoded' \
- --data-urlencode 'grant_type=client_credentials' \
- --data-urlencode 'client_id=TypeYourClientID' \
- --data-urlencode 'client_secret=TypeYourClientSecret' \
- --data-urlencode 'scope=esp' \

Replace the TypeYourClientID & TypeYourClientSecret with the correct details

You will receive a token that is valid for 1 hour that is used as authentication

Documentation



In TraXes you can find a list of technical documentation on every available API and how to use it, the documentation can be found here:

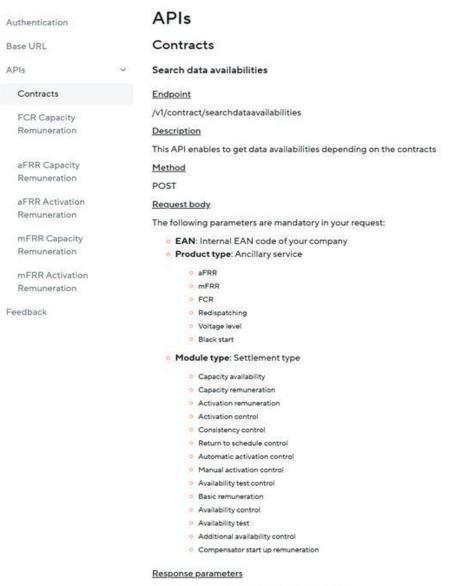
Settlement	
A service for fetching data from SEAS	
Go to service overview →	
Documentations	
Go to technical documentation →	
Go to API documentation →	



Documentation

An example of the documentation we will provide:



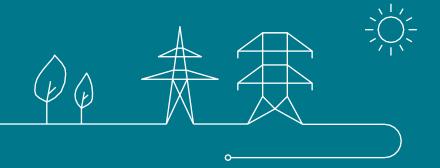


The service will return the following parameters:





Use case explained

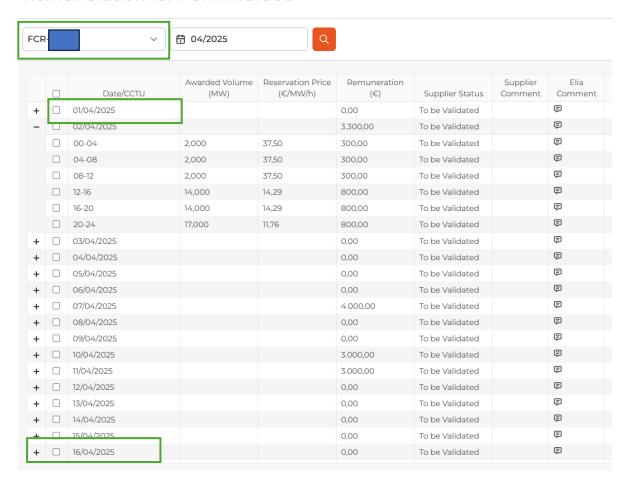


A use case:



→ Back FCR / Remuneration for FCR Awarded

Remuneration for FCR Awarded



The following is the API call used to (re)create FCR Renumeration awarded:

/settlement/interface/v1/FcrCapacityRemuneration/SearchCapacityRemunerations

```
Body:
{
  "contractReference": "FCR-
"periodStart": "2024-04-01",
  "periodEnd": "2023-04-30"
}
```



A use case:



▶ 3: {day: "2025-04-06", contractReference:

▶ 4: {day: "2025-04-22", contractReference:

▶ 5: {day: "2025-04-11", contractReference:

▶ 6: {day: "2025-04-19", contractReference: ▶ 7: {day: "2025-04-05", contractReference:

▶ 8: {day: "2025-04-25", contractReference:

▶ 9: {day: "2025-04-23", contractReference:

▶ 10: {day: "2025-04-24", contractReference:

▶ 11: {day: "2025-04-10", contractReference:

▶ 12: {day: "2025-04-30", contractReference:

▶ 13: {day: "2025-04-18", contractReference:

▶ 14: {day: "2025-04-09", contractReference:

▶ 15: {day: "2025-04-29", contractReference:

▶ 16: {day: "2025-04-27", contractReference:

▶ 17: {day: "2025-04-17", contractReference:

▶ 18: {day: "2025-04-02", contractReference:

▶ 19: {day: "2025-04-03", contractReference: ▶ 20: {day: "2025-04-14", contractReference:

▶ 21: {day: "2025-04-21", contractReference:

▶ 22: {day: "2025-04-07", contractReference:

▶ 23: {day: "2025-04-15", contractReference:

▶ 24: {day: "2025-04-12", contractReference:

▶ 25: {day: "2025-04-28", contractReference:

▶ 26: {day: "2025-04-13", contractReference:

▶ 27: {day: "2025-04-01", contractReference:

▶ 28: {day: "2025-04-16", contractReference:

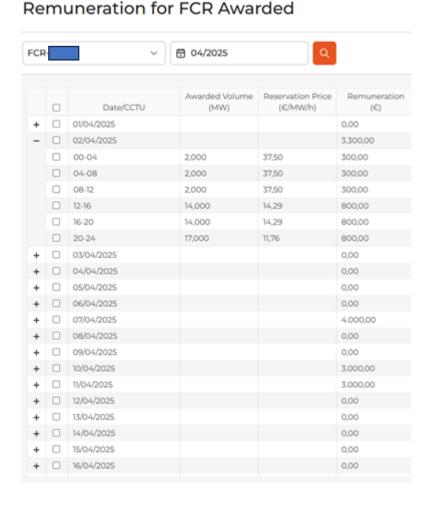
▶ 29: {day: "2025-04-04", contractReference:

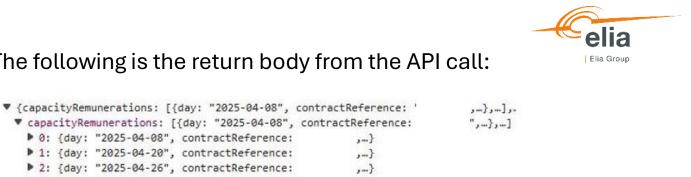
▶ overview: {overviewStatus: 3. remuneration: 13300}

▶ month: {yearPart: 2025, monthPart: 4}

companyPartyManagerId: " contractReference:

→ Back FCR / Remuneration for FCR Awarded





,...}

',...}

',...}

',...}

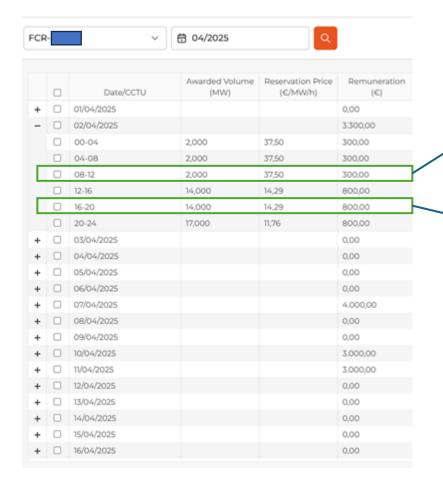
',...}

A use case:



→ Back FCR / Remuneration for FCR Awarded

Remuneration for FCR Awarded

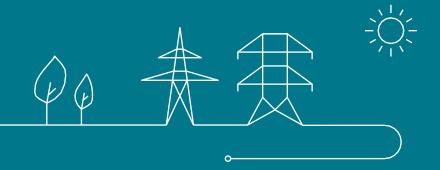


```
▼ 18: {day: "2025-04-02", contractReference:
 ▼ capacityRemunerationDetails: [{capacityRemunerationDetailId: "175448f4-2010-4e89-b9e6-18e933c77-
   ▼ 0: {capacityRemunerationDetailId: "175448f4-2010-4e89-b9e6-18e933c77d04",...}
       awardedVolume: 2
       capacityRemunerationDetailId: "175448f4-2010-4e89-b9e6-18e933c77d04"
       cctuName: "08-12"
       isVirtual: false
       productType: 1
       remuneration: 300
       reservationPrice: 37.5
       startsOn: "2025-04-02T06:00:00Z"
       supplierComment: null
       supplierStatus: 0
       tsoComment: "d"
   ▼ 1: {capacityRemunerationDetailId: "5cble534-ae21-4a0c-86f9-6e36098ef251",...}
       awardedVolume: 14
       capacityRemunerationDetailId: "5cb1e534-ae21-4a0c-86f9-6e36098ef251"
       cctuName: "16-20"
       isVirtual: false
       productType: 1
       remuneration: 800
       reservationPrice: 14.285714
       startsOn: "2025-04-02T14:00:00Z"
       supplierComment: null
       supplierStatus: 0
       tsoComment: "d"
   ▼ 2: {capacityRemunerationDetailId: "0b9d238b-e591-46cc-a4d1-b26df44fd88e",...}
       awardedVolume: 2
       capacityRemunerationDetailId: "0b9d238b-e591-46cc-a4d1-b26df44fd88e"
       cctuName: "04-08"
       isVirtual: false
       productType: 1
       remuneration: 300
       reservationPrice: 37.5
       startsOn: "2025-04-02T02:00:00Z"
       supplierComment: null
       supplierStatus: 0
       tsoComment: "d"
    3: {capacityRemunerationDetailId: "51084343-6b72-4062-9b8e-bfd41f4342e9",...}
    4: {capacityRemunerationDetailId: "14f49076-93e1-4df6-ad5d-d42df2cdef7c",...}
    5: {capacityRemunerationDetailId: "e187e4f8-600b-4966-a1a3-dc6e603b5f9c",...}
    contractReference:
```





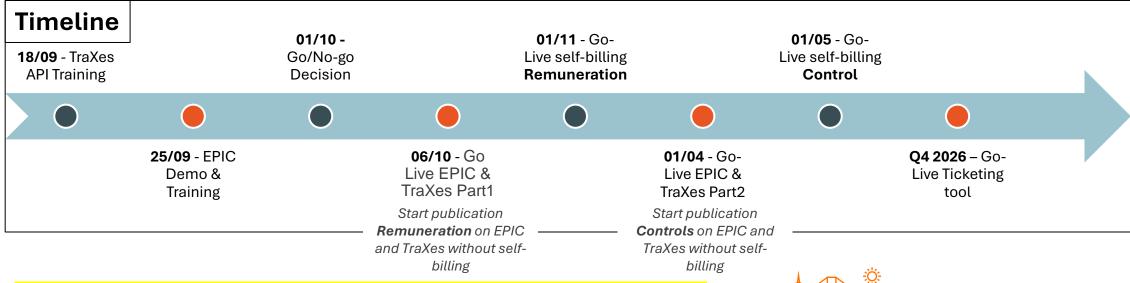
Final remarks





Practicalities

- APIs are completely optional: All functionalities are available via the web interface of EPIC
- If you have any feedback regarding the API's, EPIC, process flow, wordings,... feel free contact your KAM
 Energy
- Interested in building your own tooling? Let's see if we can set-up a connection together. Contact your KAM Energy!



This timeline is dependent on the approval of the T&Cs by the CREG



