

Use case 1

DSR (Demand Side Response)

Prequalification & Auction processes

15.03.2021

DISCLAIMER

This document provides different **fictive examples**, so-called use cases, related to the Capacity Remuneration Mechanism being developed in Belgium. It has, as sole purpose, to explain the **Functioning Rules** and the functioning of the **CRM IT Interface** by means of examples.

The use cases developed in this document are based on the chapters **Prequalification Process** & **Auction Process** of the Functioning Rules of the Capacity Remuneration Mechanism published in **November 2020**.

By no means, the use cases replace the rules in the relevant Laws, Royal Decrees, and regulatory approved documents.

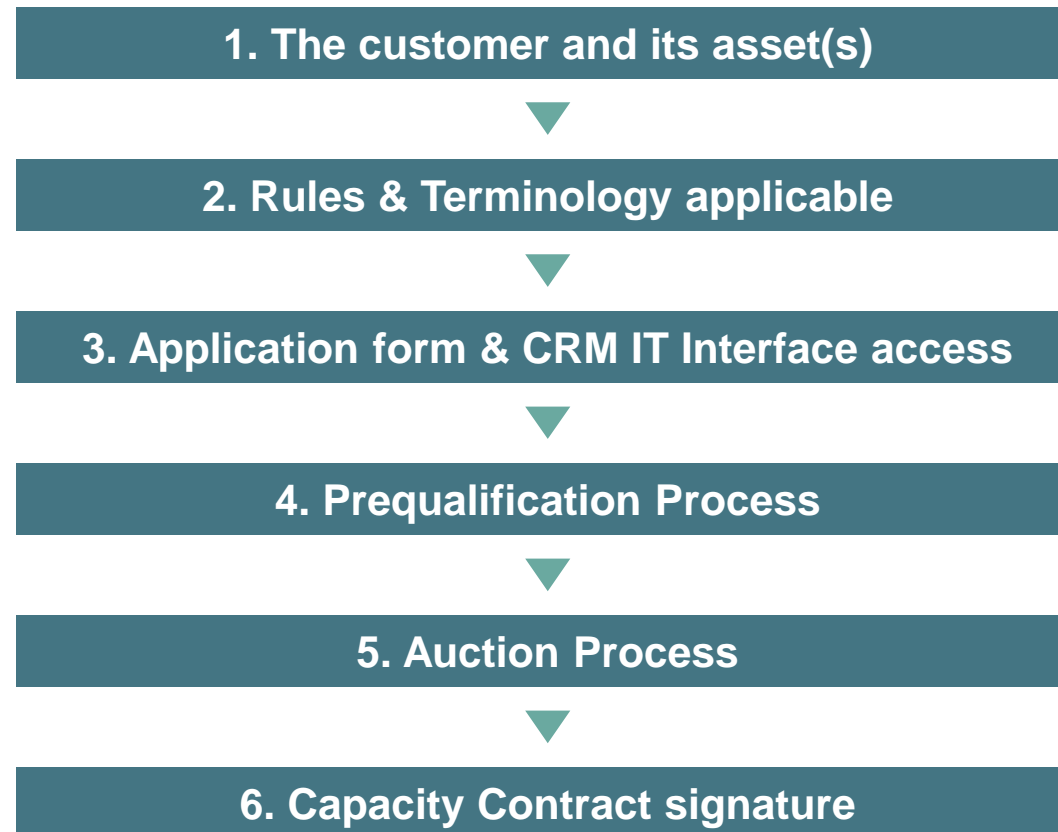
The choices in the examples are only made for **illustrative** purposes and do not imply any judgement. All the figures and numbers used for these use cases are purely fictive. These numbers nor the use cases presented should be interpreted as representing a concrete case or a concrete situation of the Belgian capacity market or an implied proposal for any CRM parameter. The **timings** and the dates represented in the use cases are **not realistic**.

The **tool** is **still under construction**. Therefore, the wording used in the presented screenshots is not definitive (phrasing to review, errors in the use of capital letters, etc.) and some fields are still missing or erroneous. As announced in TF CRM of March 2, 2021, the submitted version of **Functioning Rules** is still being **challenged** by the CREG. This might also lead to minor changes in the Functioning Rules and therefore the CRM IT interface.

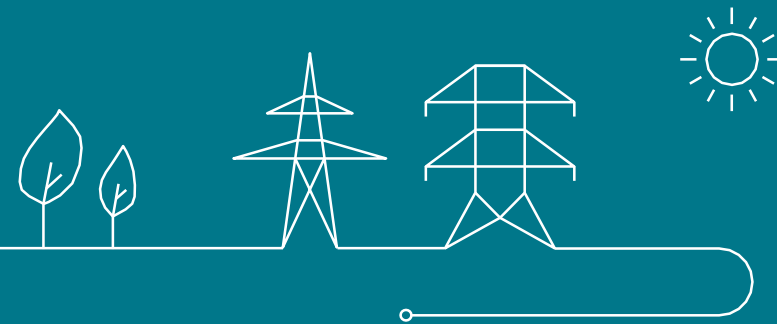
In addition to these theoretic use cases, the CRM Candidate is invited to train itself via the **demo platforms** where he will be able to develop tailored use cases in the prequalification **test** module and the auction test module.

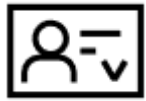
ELIA also also **welcomes** any **feedbacks** on the CRM IT Interface → customer.crm@elia.be

USE CASE STRUCTURE



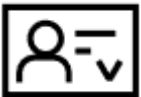
1. The customer and its asset(s)



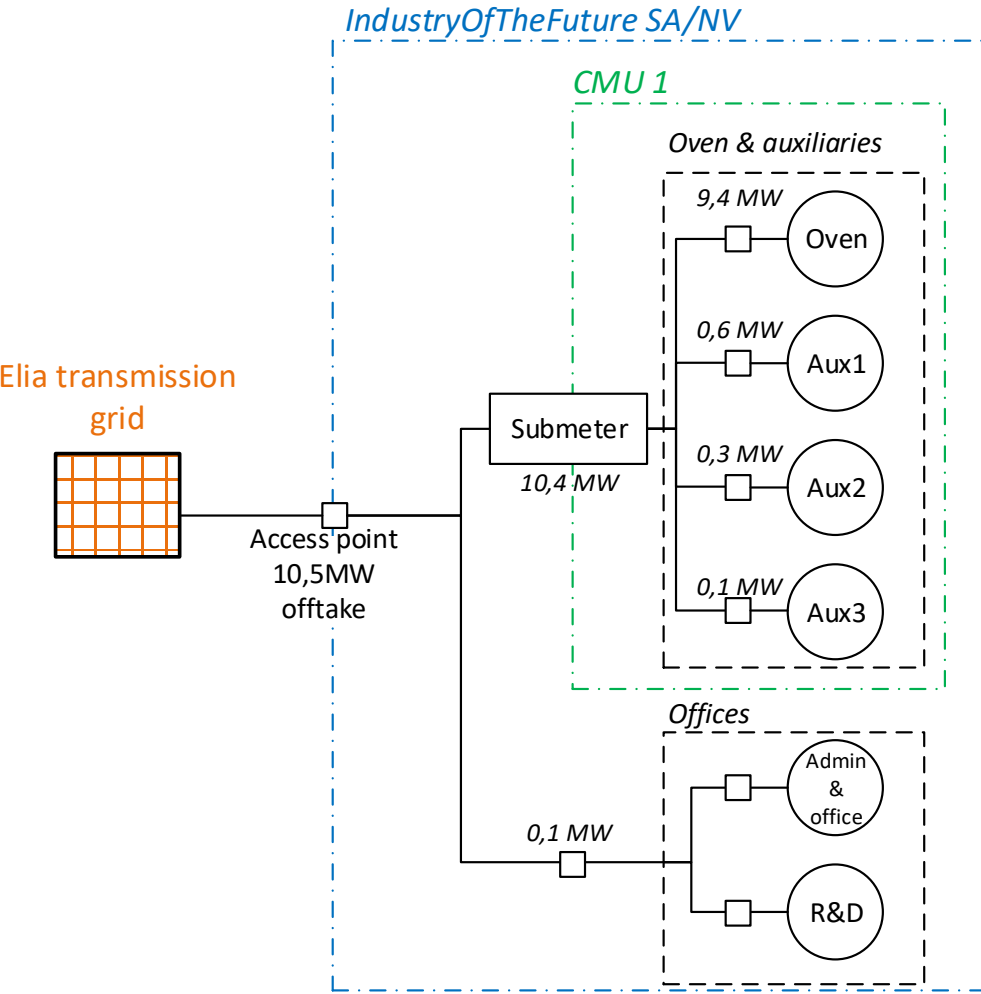


1. The customer and its asset(s)

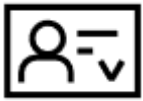
- IndustryOfTheFuture is a **factory located in Belgium** and **connected to the TSO** grid
- IndustryOfTheFuture is not the Grid User
- This factory is composed of a large oven & some melting equipment
- The oven and the melting equipment **consume electricity**
- The oven represents more than 80% of the consumption of the site and other related processes are highly dependent of its auxiliaries:
 - An estimate of 10MW on the 10,1MW usually consumed almost in baseload are expected to decrease in case of oven shutdown
 - The rest (10,1MW – 10MW = 0,1MW) covers the R&D department, offices, site safety and other facilities
- IndustryOfTheFuture has **no obligation to prequalify** the factory (cf. article 7undecies §14 alinea 1^{er} of the Electricity Act)
- IndustryOfTheFuture decides to **prequalify an Existing CMU** to participate in the **2021 Y-4 auction**



1. The customer and its asset(s)



CMU1 – CMU-2V4Q5	
Company information:	
	<ul style="list-style-type: none">Owner: IndustryOfTheFutureLocation: BelgiumConnection: TSO grid
Prequalification parameters:	
CMU	<ul style="list-style-type: none">Existing CMU1:<ul style="list-style-type: none">Existing DP1CMU1: Individual CMU
Technology	<ul style="list-style-type: none">Electrical load: Oven & melting process (main part of the load) + OfficesDemand Side Management (DSM)
Volumes	<ul style="list-style-type: none">CMU1:<ul style="list-style-type: none">Expected Nominal reference power of DP1: 10 MW
Investment file	No investment file foreseen
Auction parameters:	
Grid constraints	No grid constraints to be taken into account as the load is existing
Auction	Participate to 2021 Y-4 Auction
Contract duration	Contract duration: 1 year (no investment file submitted to CREG)



1. The customer and its asset(s)

- The CMU is not subject to a Daily Schedule obligation (NRP of the Existing DP < 25 MW & TSO-connected)
- The CMU is not an Energy Constrained CMU
- The CMU is not an aggregated CMU

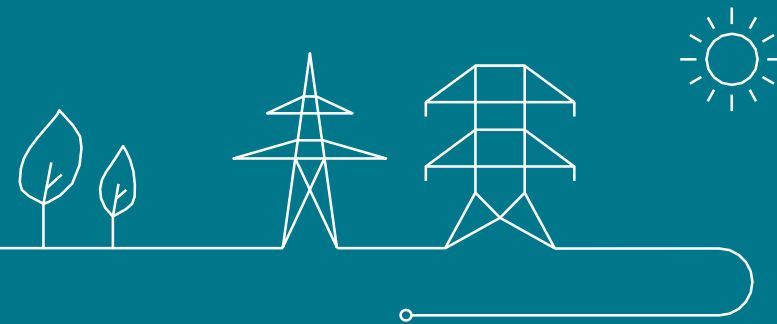
→ **Category I**

→ Sub-category: **SLA unlimited (24h)**

→ Derating Factor: **100%**

Category I: SLA	
Sub-Category	Derating Factor [%]
SLA-1h	11
SLA-2h	19
SLA-3h	28
SLA-4h	36
SLA-6h	52
SLA-8h	65
SLA unlimited	100
Category II: Thermal technologies with daily schedule	
Sub-Category	Derating Factor [%]
CCGT	91
OCGT	90
Turbojets	96
IC Gas Engines	95
IC Diesel Engines	93
CHP	93
Biomass	93
Waste	93
Nuclear	96
Coal	90
Category III: Energy-limited technologies with daily schedule	
Sub-Category	Derating Factor [%]
Large-scale storage	11
PSP	19
Category IV: Weather-dependent technologies	
Sub-Category	Derating Factor [%]
Offshore Wind	15
Onshore Wind	6
Solar	4
Hydro Run-of-River	34
Category V: Thermal DSO- or CDS- connected technologies without daily schedule	
Sub-Category	Derating Factor [%]
Aggregated thermal technologiesd	62

2. Rules & Terminology applicable



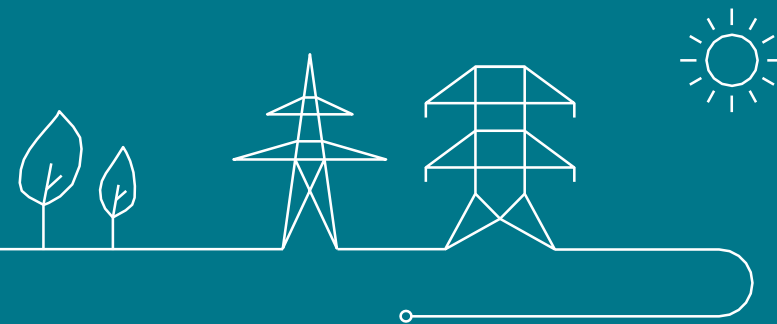


2. Rules & Terminology

The reference document used by ELIA for the Use Case is the *Functioning Rules of the Capacity Remuneration Mechanism* published on 13/11/2020

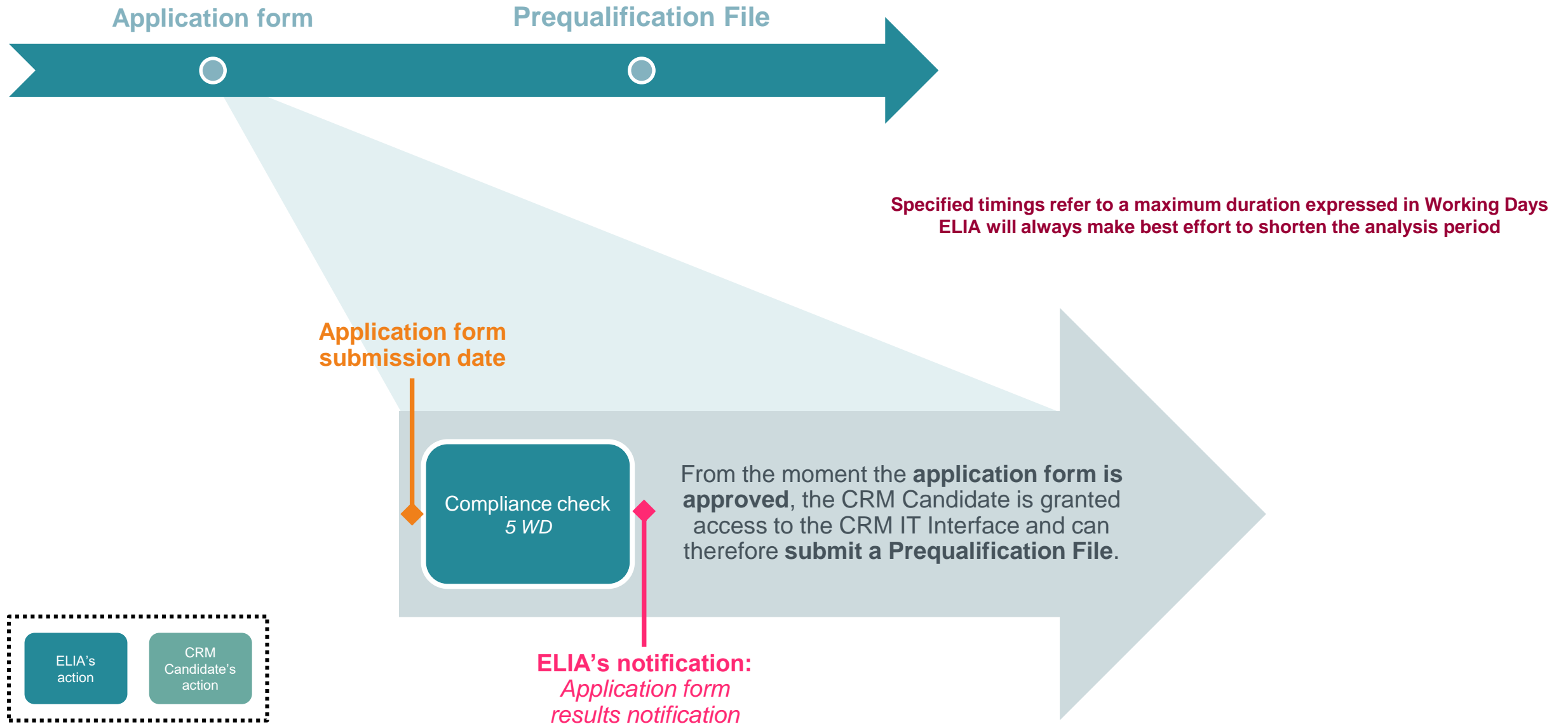
Prequalification Process	Financial Security	Auction Process	Capacity Contract signature
<ul style="list-style-type: none">Terminology: <i>Chapter 3 & section 5.2</i>Eligibility conditions: <i>Sections 5.3.1 & 5.3.2</i>Prequalification File requirements: <i>Section 5.4.1.1</i>Prequalification review process: <i>Sections 5.5.1 & 5.5.2</i>Volumes determination: <i>Sections 5.6.1.1, 5.6.2, 5.6.3 & 5.6.4.1</i>Prequalification results notification: <i>Section 5.7.1</i>	<ul style="list-style-type: none">Financial Security: <i>Chapter 10</i>	<ul style="list-style-type: none">Bid: <i>Section 6.3.1 & 6.3.2.1</i>Bid price: <i>Section 6.3.2.1.1</i>Bid volume: <i>Section 6.3.2.1.2</i>Capacity contract duration: <i>Section 6.3.2.1.3</i>Linked bids: <i>Section 6.3.2.2</i>Mutually exclusive bids: <i>Section 6.3.2.1.3</i>Mutually exclusive bids: <i>Section 6.3.1</i>	<ul style="list-style-type: none">Capacity Contract signature: <i>Section 7.2.2</i>

3. Application form & CRM IT Interface access





3. Application form & CRM IT Interface access | Application form





3. Application form & CRM IT Interface access | Application form



Welcome to the access portal of ACC

TODO generic app description EN



**Already have an
account ?**

Sign in to AdeMar directly



No account yet ?

Submit your information and
get an account

en



Privacy - Ter



3. Application form & CRM IT Interface access | Application form



1 Company information — 2 Bank details for invoicing — 3 Contact details

✓ 1 Company information — 2 Bank details for invoicing — 3 Contact details

✓ 1 Company information — 2 Bank details for invoicing — 3 Contact details

STEP 1

Company information

COMPANY INFO

Company name *

IndustryOfTheFuture.SA/NA|

Legal Status *

Registration number *

Business number

Energy Identification Code (EIC)

Telephone

Fax

Email address *

COMPANY ADDRESS

Street *

House number *

Zip code *

City *

Country *



STEP 2

Bank details for invoicing

You shall provide a company name and an address if you want to receive your mail for the invoice at a different address than the one provided at the step 'Company Information'.

Company Name *

Bank name *

IBAN *

SWIFT/BIC *

Currency *

Street

House Number

Zip code

City

Country



STEP 3

Contact details

CONTACT 1

Civil Stat...

Firstname *

Lastname *

Please choose a civil status

Telephone

Mobile *

Language *

Function *

Email *

TO BE CONTACTED FOR *

Please notice that to approve your application form, ELIA asks for the contact details of at least one person for each of the following matters (except for the one needed in case of investment file):

- ☐ Contractual relations
- ☐ Emergency (24h/24h)
- ☐ Counting and metering
- ☐ Settlement
- ☐ Investment file (for submission to regulator)
- ☐ Point of contact published on ELIA website

GDPR Conditions

☒ GDPR CONDITIONS

☒ By submitting this application form, I agree that the information provided here and in the CRM IT Interface will be used by ELIA for the purpose of the CRM
In order to continue you need to agree with the GDPR conditions

← BACK

SUBMIT ✓





3. Application form & CRM IT Interface access | Application form

Dear,

Your request was sent on 04/03/2021 15:19. We will now verify and validate it. This will take maximum 5 working days.



Dear,

Your Application Form has been approved. Please find your user ID and password below:

User ID: ISOEXT\CRM000001018

Password: 9dhnhSohJi3jNbySmNohqw==



3. Application form & CRM IT Interface access | Compliance checks



Compliance Checks

7/7

Please read and indicate your acknowledgment with the following legal documents before using this application.

You are allowed to go through the standard, the specific and/or the fast track Prequalification Process with your CMU(s)

Compliance checks for participation to a fast track Prequalification Process:

Functioning Rules for fast track Prequalification Process



Acknowledgment of the Functioning Rules for the Capacity Remuneration Mechanism related to the fast track Prequalification Process



Compliance checks for participation to a standard or a specific Prequalification Process:

Functioning Rules



Acknowledgment of the Functioning Rules for the Capacity Remuneration Mechanism (this include the functioning rules related to the fast track ...



Capacity Contract



Acknowledgment of the Capacity Contract conditions in case of Contracted Capacity for the forthcoming Auction



Eligibility criteria



The compliance of each Delivery Point with the eligibility criteria, as defined in the Electricity Act (cr. Art 7 undercies §4, 1*, 2* and 3*) and ...



Production license requirements



The compliance of each Delivery Point with an Existing status with the production license requirements as defined in article 4 of the Electricity Act



Maximal CO2 mission thresholds



The compliance of each Delivery Point with an Existing status with the maximal CO2 emission thresholds set by the Regulation (EU) 2019/943



Legal and regulatory framework

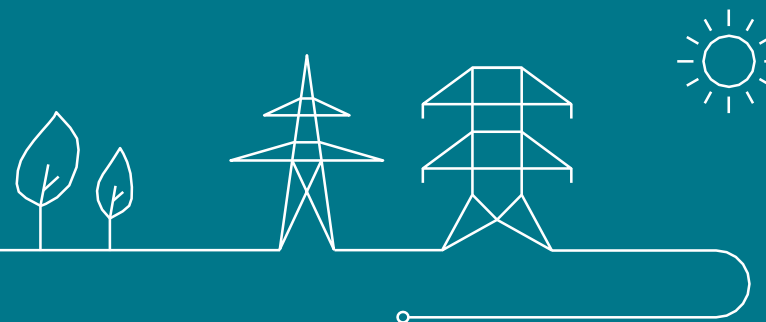


The compliance of each Delivery Point with any other relevant legal and regulatory framework



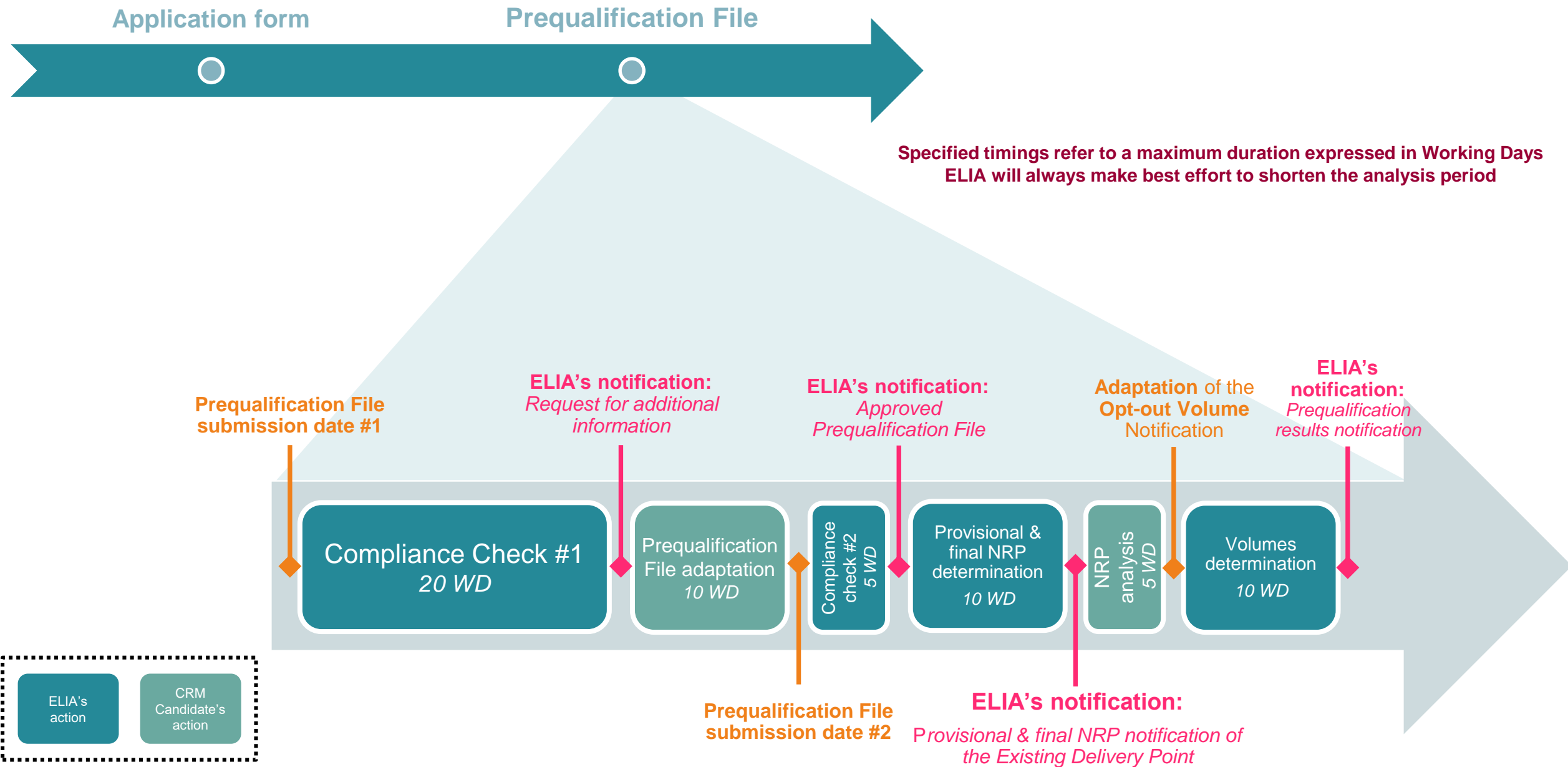
ACCEPTER ET CONTINUER

4. Prequalification Process





4. Prequalification Process | Timeline





4. Prequalification Process | Prequalification File creation

Prequalification File(s) ACC

+ NEW CMU

CMUs 2

Search by CMU ID

NO FILTER

ID	STATUS	PROCESS	LAST UPDATED	PREQUALIFICATION DATE
VCMU-2QLrV	Saved		18/2/2021, 17:40:41	-
FT-2QNac	Submitted		18/2/2021, 19:...	-

Add a new CMU

Which Prequalification Process do you want to start?

- ☒ Standard Prequalification Process
For Existing CMUs or Additional CMUs
- ☐ Fast track Prequalification Process
For Existing CMUs
- ☐ Specific Prequalification Process
For Virtual CMUs (Unproven Capacity)

SAVE NEW CMU

SM Sybille Mette... SM Company



4. Prequalification Process | Prequalification File creation



CMU-2V4Q5 / Standard

DELETE

Saved

Last updated on 3/3/2021, 18:03:53 • Created on 3/3/2021

CMU DETAILS

No detail available

ADD DETAILS

DELIVERY POINTS

No Delivery Point

ADD DELIVERY POINT



4. Prequalification Process | Delivery Point creation

1 Delivery Point Details — 2 Delivery Point Details — 3 Existing Delivery Point Details

STEP 1

Basic Delivery Point details

BASIC DELIVERY POINT DETAILS

Type of Delivery Point *

- ☒ TSO connected
☐ DSO connected
☐ CDS connected (TSO grid)
☐ CDS connected (DSO grid)

Status of the Delivery Point *

- ☐ Additional
☒ Existing

EAN code of the Delivery Point *

544545441256547

NB: The access of the DP ID is still under construction in the CRM IT Interface.
For this use case, we considered that the ID of the Delivery Point is « DP1 »

✓ Delivery Point Details — 2 Delivery Point Details — 3 Existing Delivery Point Details

STEP 2

Delivery Point Details

DELIVERY POINT DETAILS

Delivery Point name *

Willebrugge-Oven1

EAN code of the Access Point *

545555545416445

Single line diagram *

Single lin...iagram.pdf (178.6 kB)

Technology *

Demand side management

Add the ID of the linked capacities

No Delivery Point yet

+ ADD THE DELIVERY POINT'S ID

Agreement between Belgian member State and Adjacent Member State



Declaration by the Eligible Direct Foreign Capacity Holder



Declaration by the Adjacent Member State



← BACK

CONTINUE →

✓ Delivery Point Details — ✓ Delivery Point Details — 3 Existing Delivery Point Details

STEP 3

Existing Delivery Point Details

EXISTING DELIVERY POINT DETAILS

Expected Nominal Reference Power (in MW) *

10.00

CO2 emission attestation

Attestation CO2.pdf (178.6 kB)

CO2 emission (in g/kWh)

317.00

Which method do you want Elia to use for the determination of the NRP? *

Method 1: Use of historical data

Do you want some adjustments of the standard methodology of Baseline? *

No

Unsheddable Margin (in MW) *

0.00

Nameplate capacity of generation (in MW) *

10.00

Net offtake / Net injection *

Net offtake

Full technical injection capacity (in MW) *

0.00

Full technical offtake capacity (in MW) *

10.00

Grid User Declaration



Letter to prove renunciation of operating aid(s)



← BACK

ADD DELIVERY POINT ✓

Creation of a
DP without
GUD



4. Prequalification Process | Grid User Declaration

- As the CRM Candidate is not the Grid User, a Grid User Declaration is to be signed (annex A.6 of the Functionning Rules)
- The CRM Candidate signs this declaration before his Prequalification File submission date
- The declaration will include the information required for Prequalification File submission

Delivery Point name	Delivery Point identification (EAN code if applicable)	CRM ID of the Delivery Point	Expected Nominal Reference Power (in MW)
Willebrugge-Oven1	544545441256547	DP1	300 MW

As the Delivery Point participates to a Prequalification Process for the first time, it is the CRM Candidate who provides the ID of the Delivery Point. To get this ID, the CRM Candidate creates and saves the concerned Delivery Point in the CRM IT Interface (cf. previous slide).

- NB: The access of the DP ID is still under construction in the CRM IT Interface (For this use case, we considered that the ID of the DP was « DP1 »)



4. Prequalification Process | Delivery Point edition

[←](#) CMU-2V4Q5 / Standard [DELETE](#)

Saved

 Last updated on 3/3/2021, 19:03:33 • Created on 3/3/2021

✓

 Your CMU is ready for submission. Would you like to proceed? [SUBMIT →](#)

CMU DETAILS

StatusExisting

Number of Delivery Points1

Nominal Reference Power0

DELIVERY POINTS 1

[+ ADD DELIVERY POINT](#)

Willebrugge-Oven1

StatusExisting

Type of Delivery PointTSO connected

TechnologyDemand side management

Nominal Reference Power

Edit

Delete

Edition of the
DP to add
the GUD

✓ Delivery Point Details

✓ Delivery Point Details

3 Existing Delivery Point Details

STEP 3

Existing Delivery Point Details

EXISTING DELIVERY POINT DETAILS

Expected Nominal Reference Power (in MW) *

10.00

CO2 emission attestation

Attestation CO2.pdf (178.6 kB)

CO2 emission (in g/kWh)

317.00

Which method do you want Elia to use for the determination of the NRP? *

Method 1: Use of historical data

Do you want some adjustments of the standard methodology of Baseline? *

No

Unsheddable Margin (in MW) *

0.00

Nameplate capacity of generation (in MW) *

0

Net offtake / Net injection *

Net offtake

Full technical injection capacity (in MW) *

0.00

Full technical offtake capacity (in MW) *

10.00

Grid User Declaration/CDS User Declaration *

GUD.pdf (178.6 kB)

Letter to prove renunciation of operating aid(s) *

← BACK

ADD DELIVERY POINT ✓



4. Prequalification Process | CMU creation



1 Step 1 ————— 2 Step 2 ————— 3 Step 3

CMU DETAILS

Project ID

No project ID yet

 EXISTING PROJECT IDS + GENERATE NEW PROJECT ID

Derating Factor *

SLA No Limit

✓ Step 1 ————— 2 Step 2 ————— 3 Step 3

Do you (intend to) have at least one Additional Delivery Point in your CMU? *

No



INFORMATION FOR EXISTING CMU

Do you intend to participate only to the Secondary Market with this CMU? *

No

NRP Method 2 *

No

✓ Step 1 ————— ✓ Step 2 ————— 3 Step 3

OPT-OUT NOTIFICATION

Delivery Period to which the Opt-out Notification (for a Y-4 Auction) relates:

2025-2026

Opt-out Volume (in MW) *

0.00

← BACK

SAVE ✓



4. Prequalification Process | Financial Security submission

For ELIA **to approve** your **Prequalification File**, a **Financial Security** is to be **submitted before** the submission of the **Prequalification File** itself.

$$\begin{aligned}\text{Secured amount} &= \text{Required Level} \times \text{Financial Security Volume} \\ &= 10.000 \left(\frac{\text{EUR}}{\text{MW}} \right) \times 10\text{MW} \times 100\% \\ &= 100.000 \text{ EUR}\end{aligned}$$

Upload new Financial security

Financial Security Type

Bank Guarantee

Financial Security Form

FS.pdf

CMU ID

CMU-2V4Q5

Amount (€)

100.000

Expiry Date

01/01/2027



Bank

BELFIOS

 SUBMIT

 CANCEL



4. Prequalification Process | Prequalification File submission

[←](#) CMU-2V4Q5 / Standard [DELETE](#)

[Saved](#) Last updated on 3/3/2021, 19:03:33 • Created on 3/3/2021

[✓](#) Your CMU is ready for submission. Would you like to proceed? [SUBMIT →](#)

CMU DETAILS

Status	Existing
Number of Delivery Points	1
Nominal Reference Power	0

DELIVERY POINTS 1 [+ ADD DELIVERY POINT](#)

Willebrugge-Oven1	
Status	Existing
Type of Delivery Point	TSO connected
Technology	Demand side management
Nominal Reference Power	

Submit CMU CMU-2V4Q5?

You are about to submit this CMU, are you sure you want to proceed?

CANCEL

CONFIRM

Dear,

Your CMU with ID CMU-2V4Q5 has been submitted.

Elia will inform you within the next 20 working days whether the CMU is approved or rejected.



4. Prequalification Process | Prequalification review process

Dear,

Your CMU with ID CMU-2V4Q5 has been rejected for the following reason(s):

The Grid User Declaration isn't valid because some mandatory fields are missing

Please go back to your file within the next 10 working days to adapt the necessary information in order for the CMU to get approved.

King regards,
The CRM team.

←

CMU-2V4Q5 / Standard

⊗ Rejected Last updated on 5/3/2021, 10:24:32 • Created on 3/3/2021

📁 ARCHIVE

Please fix the following error(s) to be able to submit your CMU:

⚠

• Some files you provided have been rejected by Elia. Please update them while taking the provided comments into account.

CMU DETAILS

Status	Existing
Number of Delivery Points	1
Nominal Reference Power	0

DELIVERY POINTS 1

+ ADD DELIVERY POINT

Willebrugge-Oven1		<div>✎ Edit</div> <div>🗑 Delete</div>
Status	Existing	
Type of Delivery Point	TSO connected	
Technology	Demand side management	
Nominal Reference Power	0	

The Grid User Declaration isn't valid because some mandatory fields are missing

Grid User Declaration/CDS User Declaration *

📎 GUD.pdf

This file has been rejected by Elia and must be updated

✓ Delivery Point Details — ✓ Delivery Point Details — 3 Existing Delivery Point Details

Nameplate capacity of generation (in MW) *

10.00

Net offtake / Net injection *

Net offtake

Full technical injection capacity (in MW) *

0.00

Full technical offtake capacity (in MW) *

10.00

Grid User Declaration/CDS User Declaration *

📎 GUD.pdf (178.6 kB)

Letter to prove renunciation of operating aid(s) *

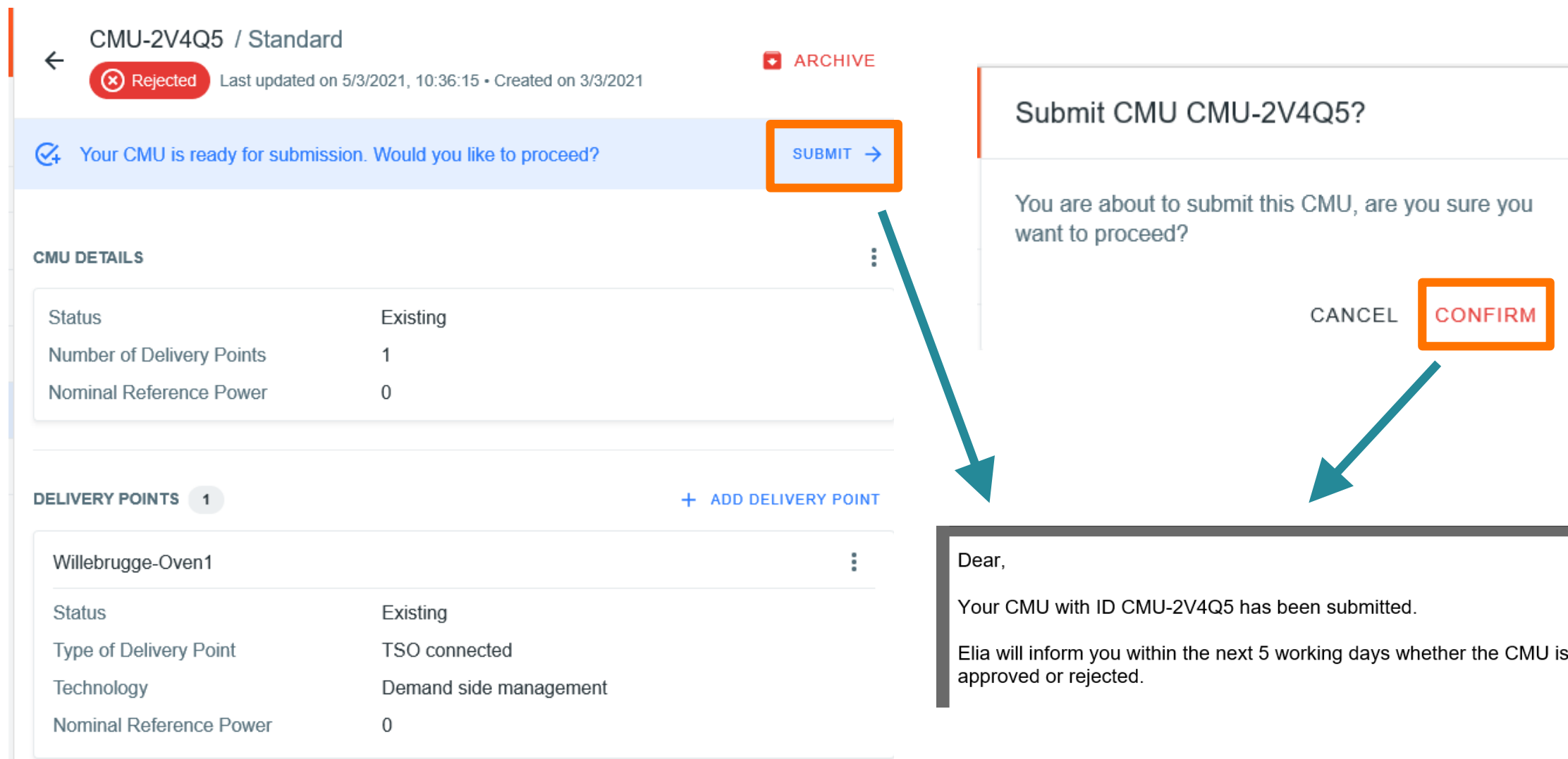


← BACK

EDIT DELIVERY POINT ✓



4. Prequalification Process | Prequalification review process





4. Prequalification Process | Prequalification review process



Dear,

Your CMU with ID CMU-2V4Q5 has been approved.

The process of Nominal Reference Power determination will now start.

An e-mail will follow with the results of this determination within maximum 10 working days starting from this notification.

← CMU-2V4Q5 / Standard



Last updated on 5/3/2021, 10:52:19 • Created on 3/3/2021

ARCHIVE

CMU DETAILS

Status	Existing
Number of Delivery Points	1
Nominal Reference Power	0

DELIVERY POINTS 1

Willebrugge-Oven1

Status	Existing
Type of Delivery Point	TSO connected
Technology	Demand side management
Nominal Reference Power	0

CMU-2V4Q5

Approved

Standard Prequalification Process



4. Prequalification Process | NRP notification – Opt-out Notification adaptation

Dear,

The Nominal Reference Power of your CMU with ID CMU-2V4Q5 has been determined by ELIA and is equal to 10,4 MW.

You have 5 working days to contest this result via the CRM IT Interface.

If no reaction is received within these 5 working days, the Nominal Reference Power will be considered as approved.

King regards,
The CRM team.

← CMU-2V4Q5 / Standard

✓ Approved Last updated on 5/3/2021, 10:52:19 • Created on 3/3/2021

📁 ARCHIVE

[EDIT OPT-OUT](#)

CMU DETAILS

Status	Existing
Number of Delivery Points	1
Nominal Reference Power	10,4

DELIVERY POINTS 1

Willebrugge-Oven1	
Status	Existing
Type of Delivery Point	TSO connected
Technology	Demand side management
Nominal Reference Power	10,4
Nominal Reference Power Status	pending

👍 APPROVE 🗨️ CONTEST

Edit CMU Opt-out

Opt-out notification

Opt-out Volume (in MW) *

0,4

To what does the Opt-out Volume relates? *

Existing Capacity

Reasons for opt-out (related to existing capacity)

Temporary closure (5 MW)

Reason	Volume (MW)
Other	0,4

+ ADD

SAVE



4. Prequalification Process | Prequalification results notification

←

CMU-2V4Q5 / Standard

✓ Approved

Last updated on 5/3/2021, 10:52:19 • Created on 3/3/2021

ARCHIVE

CMU DETAILS

Status	Existing
Number of Delivery Points	1
Nominal Reference Power	10,4

DELIVERY POINTS 1

Willebrugge-Oven1

Status	Existing
Type of Delivery Point	TSO connected
Technology	Demand side management
Nominal Reference Power	10,4
Nominal Reference Power Status	<div><div>ENDING</div><div><div>APPROVE</div><div>CONTEST</div></div></div>

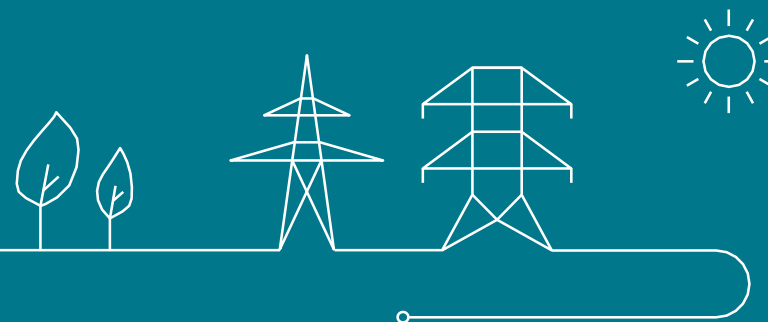
Dear,

Your Existing CMU with CMU ID CMU-2V4Q5 has been prequalified on 08/03/2021 22:37:57. It corresponds to your Prequalification File approval date.

Please find the prequalification results below:

- Nominal Reference Power: 10,4 MW
- Reference Power: 10 MW
- Opt-out Volume: 0,4 MW
- Eligible Volume: 10 MW

5. Auction Process





5. Auction | Bids rules relevant to the present use case²

		CMU 1
Amount of bids		$0 \leq n_{\text{bids}} \leq 5$
Bid price		$0 \leq \text{Price}_{\text{bid}} \leq \text{IPC}^1$
Bid volume		<ul style="list-style-type: none">▪ $0 < \text{Volume}_{\text{bid}} \leq 10 \text{ MW}$▪ At least 1 bid or 1 sum of non-mutually exclusive bids = 10 MW
Capacity Contract Duration		$\text{Duration}_{\text{bid}} = 1 \text{ year}$
Bids relationship	Linked bids	<ul style="list-style-type: none">• IndustryOfTheFuture has only prequalified 1 CMU• No linked bids as no linked capacities validated by the prequalification process
	Mutually Exclusive bids	No restriction

¹Intermediate Price Cap

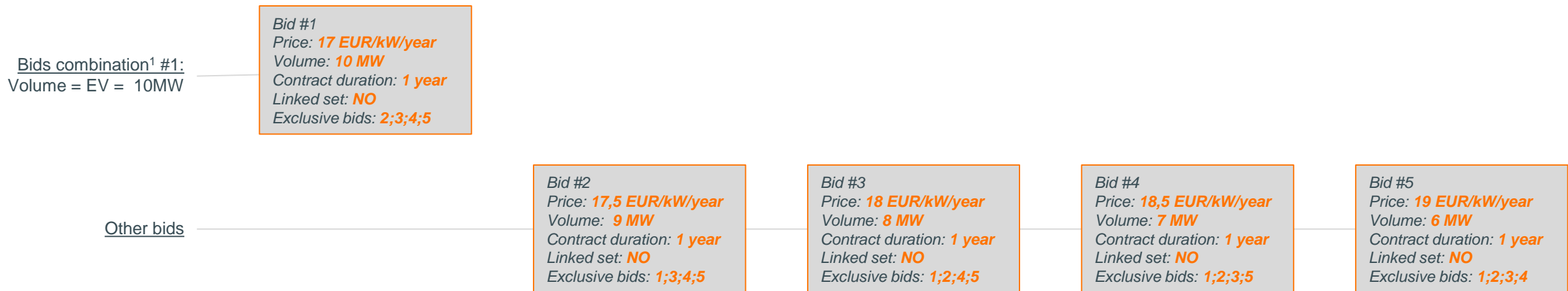
²Rules are defined in several sets of documents. Other conditions may be applicable even not developed here



5. Auction | Bidding strategy

- IndustryOfTheFuture decides to offer the maximum of bids (5).
- IndustryOfTheFuture proposes the lowest price for the eligible volume (Bid N°1) among other bids.
- IndustryOfTheFuture proposes different volumes (Bids N°2-5), because his factory is flexible. Lower is the proposed volume, higher is the price. The bids are mutually exclusive.

IndustryOfTheFuture Bidding strategy:



¹ Bid combination as described in 6.3.4 §255-256: “one or more Bids in the Auction such that the maximum capacity volume [...] which can be selected, is equal to the Remaining Eligible Volume of this CMU ”



5. Auction | Bid submission

User interface main screen

After successful login and prequalification, CRM candidate can access auction submission interface between GOT and GCT

The screenshot displays the 'Bids' section of the CRM interface. On the left, a sidebar menu contains 'Home', 'Bids' (highlighted), 'Reports', and 'About'. Below this, a 'Settings' and 'Logout' section is visible. The main content area features a top navigation bar with 'Bids' and buttons for 'BID SETS', 'BID EXCLUSION', and 'ADD NEW BID'. Below this, a filter section includes 'Auction Type' (set to '2025 Y-1'), 'COMPLIANCE CHECK', 'SUBMIT', and 'AUCTION'S STATS'. The main table area shows a 'No Bid' status with an 'ADD NEW BID' button. The table headers include 'ID', 'CMU ID', 'COMPLIANC', 'STATUS', 'VOLUME', 'PRICE', 'CONTRACT', and 'RELATIONS'. Annotations point to various features: 'Main auction bids submission and reports menu' points to the sidebar; 'Auction type selection' points to the 'Auction Type' dropdown; 'Bids check and submission' points to the 'COMPLIANCE CHECK' and 'SUBMIT' buttons; 'Modify bids portfolio' points to the 'AUCTION'S STATS' button; 'Show current auction parameters (IPC, GPC, GOT, GCT)' points to the table headers; 'Overview of bids portfolio (including sorting & filtering features)' points to the table area; and 'Overall settings and logout menu' points to the 'Settings' and 'Logout' section.

Auction type selection

Bids check and submission

Modify bids portfolio

Main auction bids submission and reports menu

Show current auction parameters (IPC, GPC, GOT, GCT)

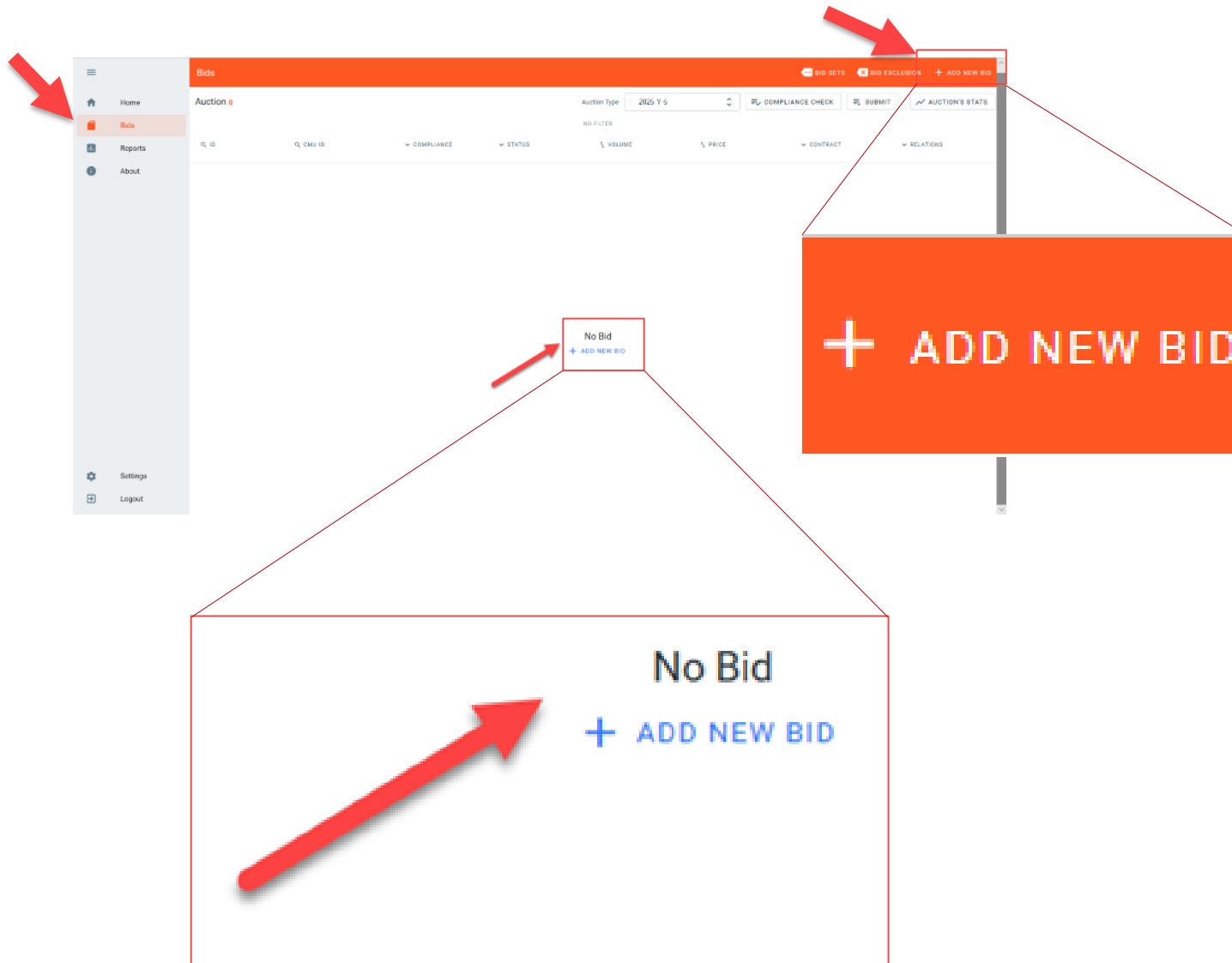
Overall settings and logout menu

Overview of bids portfolio (including sorting & filtering features)



5. Auction | Bid submission

Bid creation

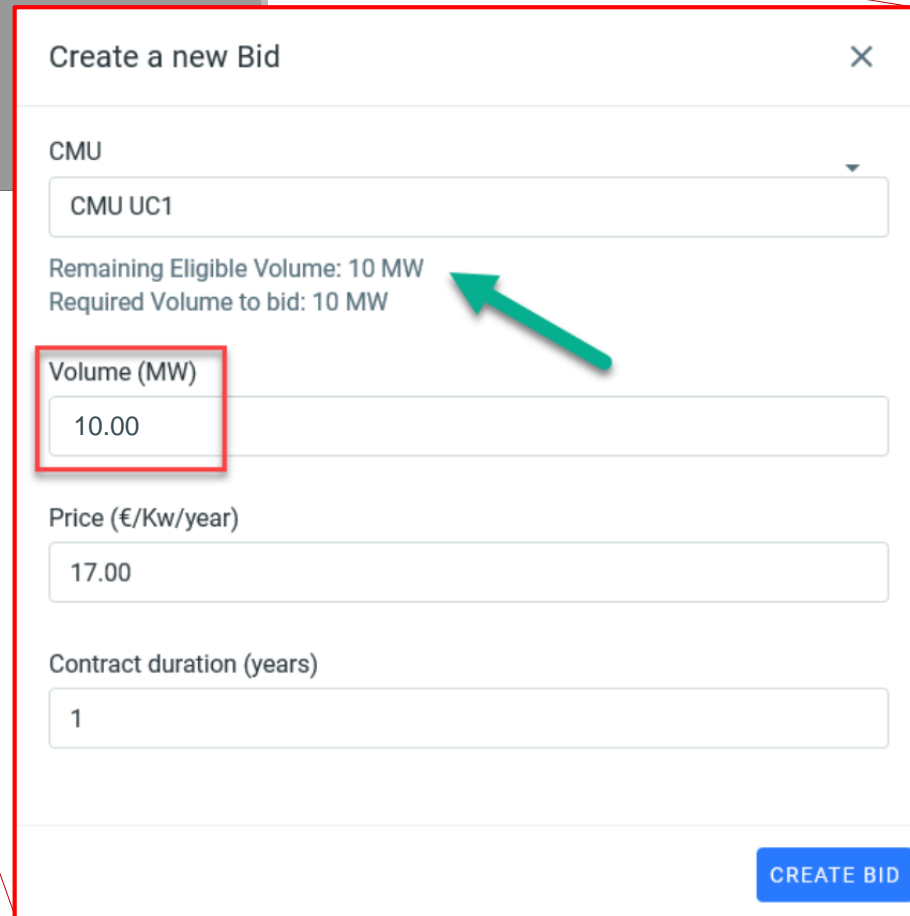
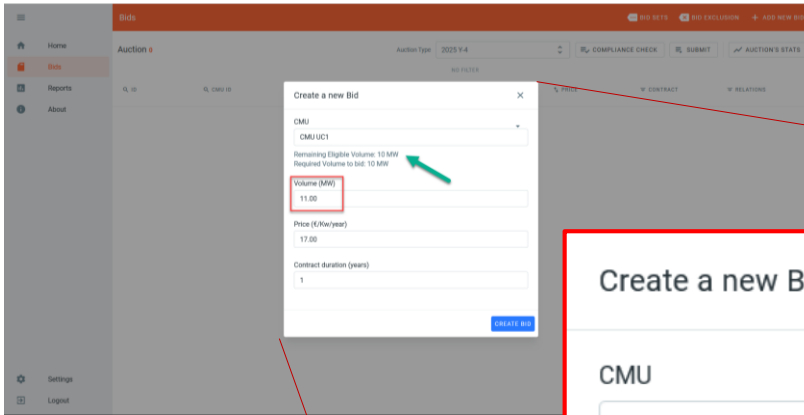


- New bids can be added via the “**Add new bid**” menu
- Bid creation feature is accessible any time between GOT and GCT
- New bids need to be linked to successfully prequalified CMUs for the current auction



5. Auction | Bid submission

Creating the first bid



- User has to choose a CMU in drop list of prequalified CMUs belonging to the CRM candidate
- Required volume to bid is dynamically computed for information
- Remaining eligible volume based on previous auctions is provided for information
- No compliancy check is performed at bid creation stage
- “Create bid” leads to bid with status “Saved”



5. Auction | Bid submission

Overview of bids portfolio

Q ID	Q CMU ID	COMPLIANCE	STATUS	VOLUME	PRICE	CONTRACT
<input type="checkbox"/> #1	CMU UC1	Waiting	Saved	10 MW	17 (€/Kw/Year)	1
<input type="checkbox"/> #2	CMU UC1	Waiting	Saved	9 MW	17.5 (€/Kw/Year)	1
<input type="checkbox"/> #3	CMU UC1	Waiting	Saved	8 MW	18 (€/Kw/Year)	1
<input type="checkbox"/> #4	CMU UC1	Waiting	Saved	7 MW	18.5 (€/Kw/Year)	1
<input type="checkbox"/> #5	CMU UC1	Waiting	Saved	6 MW	19 (€/Kw/Year)	1

Home

Bids

Reports

About

Settings

Logout

Bids

Auction 6

Auction Type: 2025 Y-4

COMPLIANCE CHECK

SUBMIT

AUCTION'S STATS

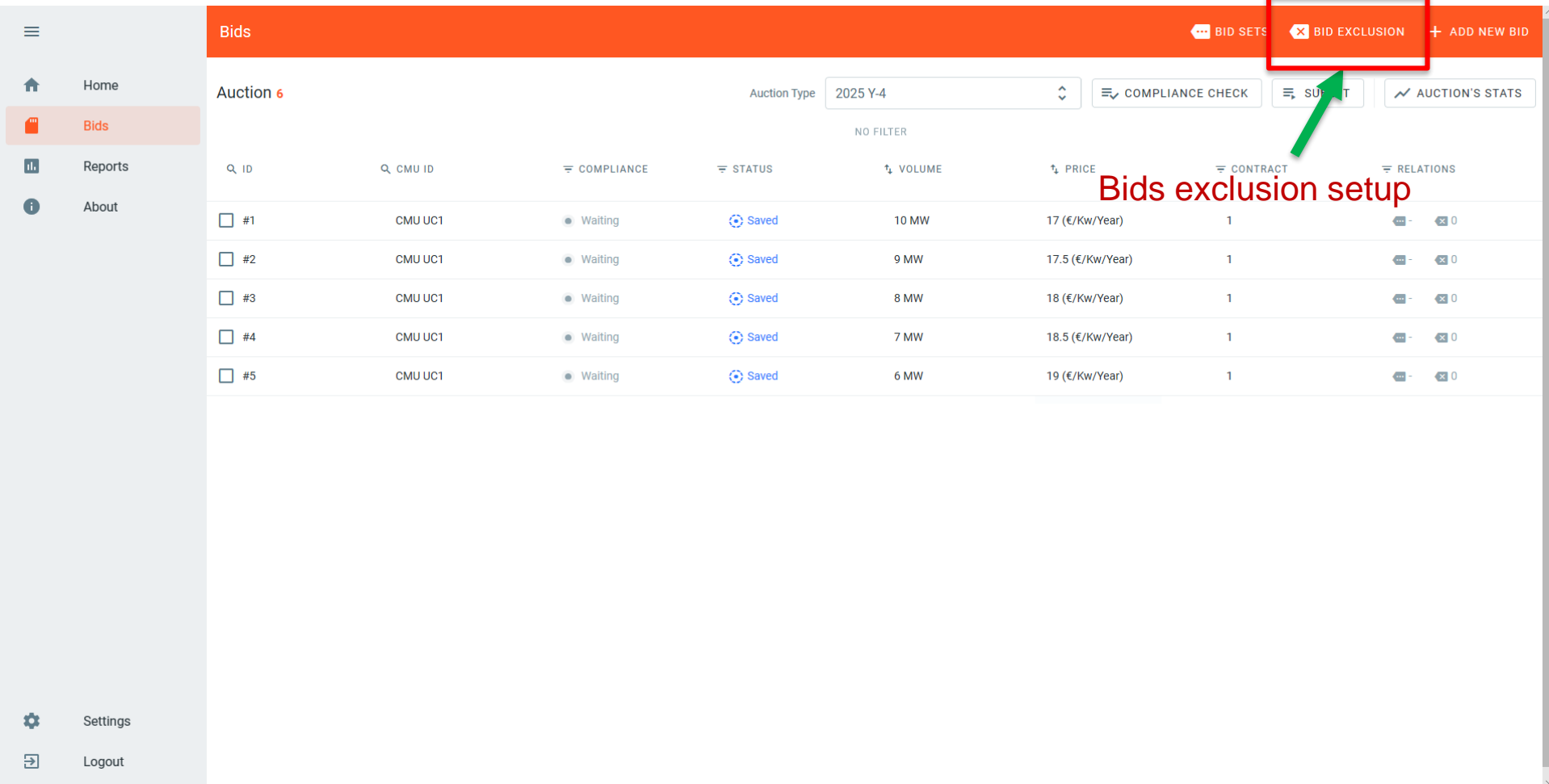
NO FILTER

Q ID	Q CMU ID	COMPLIANCE	STATUS	VOLUME	PRICE	CONTRACT	RELATIONS
<input type="checkbox"/> #1	CMU UC1	Waiting	Saved	10 MW	17 (€/Kw/Year)	1	0
<input type="checkbox"/> #2	CMU UC1	Waiting	Saved	9 MW	17.5 (€/Kw/Year)	1	0
<input type="checkbox"/> #3	CMU UC1	Waiting	Saved	8 MW	18 (€/Kw/Year)	1	0
<input type="checkbox"/> #4	CMU UC1	Waiting	Saved	7 MW	18.5 (€/Kw/Year)	1	0
<input type="checkbox"/> #5	CMU UC1	Waiting	Saved	6 MW	19 (€/Kw/Year)	1	0



5. Auction | Bid submission

Create exclusive set of bids



The screenshot shows the 'Bids' dashboard interface. The top navigation bar is orange and contains the following items: 'BID SETS', 'BID EXCLUSION' (highlighted with a red box and a green arrow), and 'ADD NEW BID'. Below the navigation bar, the main content area is titled 'Auction 6' and shows a table of bids. The table has columns for ID, CMU ID, COMPLIANCE, STATUS, VOLUME, PRICE, CONTRACT, and RELATIONS. The table contains 5 rows of data. A red text overlay 'Bids exclusion setup' is positioned over the table area, with a green arrow pointing to the 'BID EXCLUSION' menu item.

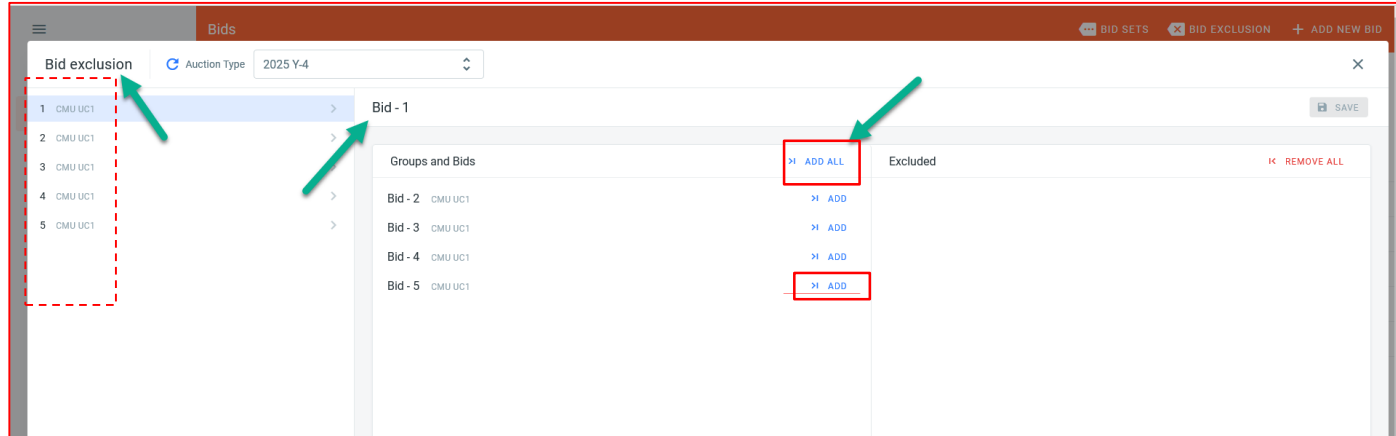
ID	CMU ID	COMPLIANCE	STATUS	VOLUME	PRICE	CONTRACT	RELATIONS
#1	CMU UC1	Waiting	Saved	10 MW	17 (€/Kw/Year)	1	- 0
#2	CMU UC1	Waiting	Saved	9 MW	17.5 (€/Kw/Year)	1	- 0
#3	CMU UC1	Waiting	Saved	8 MW	18 (€/Kw/Year)	1	- 0
#4	CMU UC1	Waiting	Saved	7 MW	18.5 (€/Kw/Year)	1	- 0
#5	CMU UC1	Waiting	Saved	6 MW	19 (€/Kw/Year)	1	- 0

- Bid exclusion menu may be used once the bids are created and visible in user dashboard

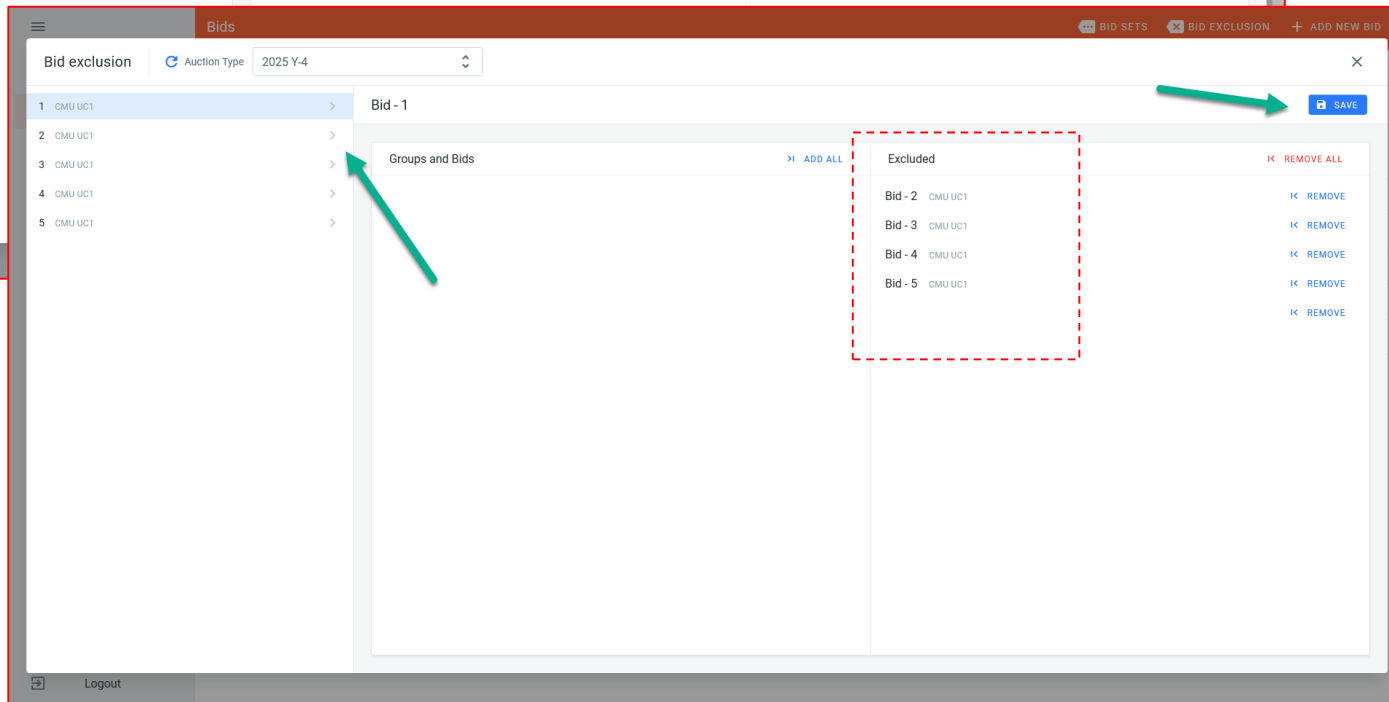


5. Auction | Bid submission

Create exclusive set of bids



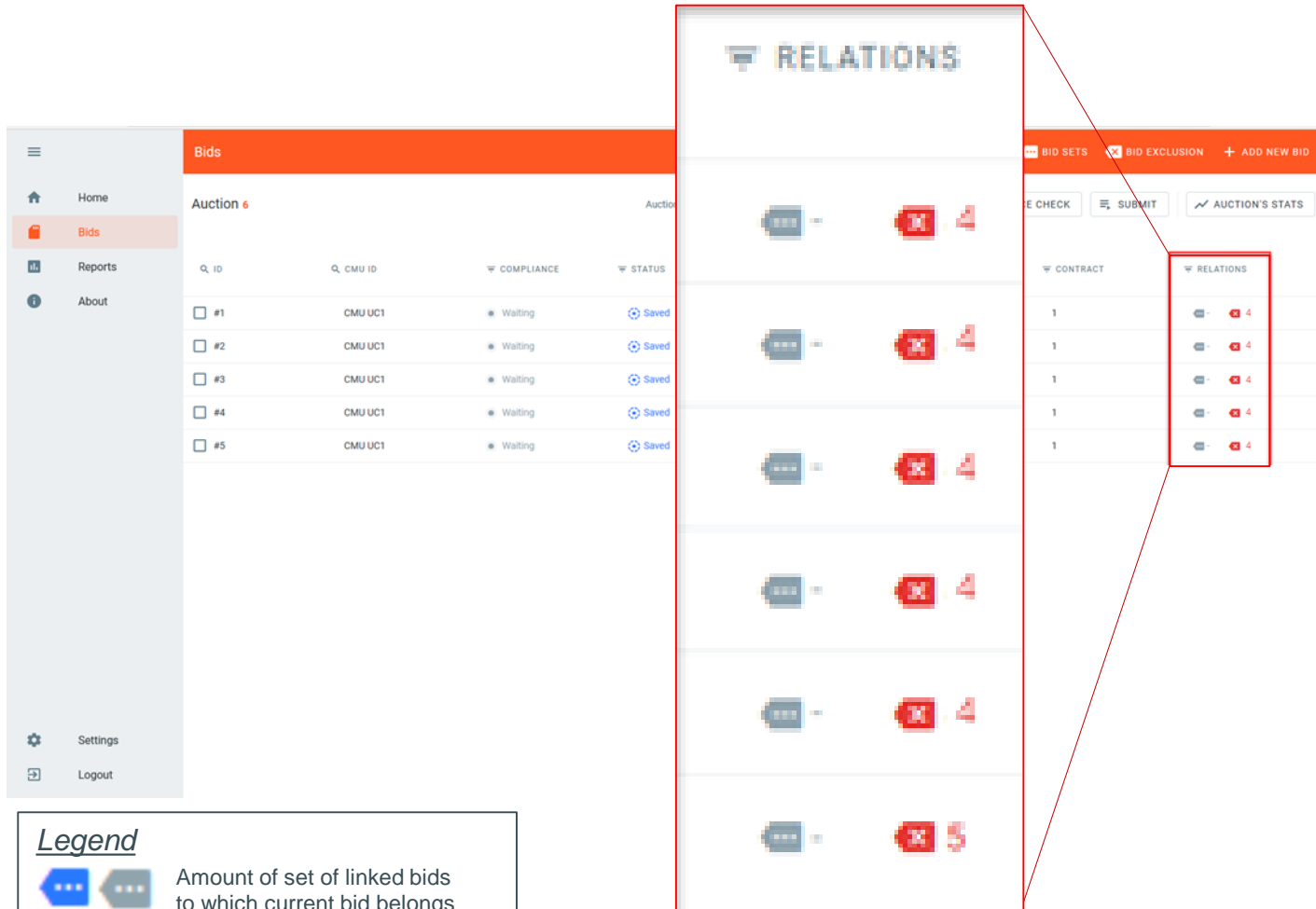
- Bids #1 can be defined as being mutually exclusive with bids 2 to 5, appearing on the left side of the table
- The bid exclusion properties can be added to each of the bids
- The bid exclusion can be added one by one or with *Add all* button.
- Bids #1 is mutually exclusive with all bids related to CMU “CMU UC1”





5. Auction | Bid submission

Create mutually exclusive bids





The screenshot displays the 'Bids' section of the dashboard. On the left, a sidebar contains navigation links: Home, Bids (active), Reports, and About. Below these are Settings and Logout. The main content area shows 'Auction 6' with a table of bids. The table has columns for ID, CMU ID, Compliance, and Status. Five bids are listed, all with CMU UC1 and a 'Waiting' status. A red box highlights a 'RELATIONS' panel that provides a detailed view of the bid relationships. This panel shows a list of contracts (all with ID 1) and a 'RELATIONS' sub-section. The 'RELATIONS' sub-section shows that each bid is linked to 4 other bids (indicated by a grey icon with 4 dots) and is mutually exclusive with 4 other bids (indicated by a red icon with an 'X' and the number 4). A legend at the bottom left explains these icons: a grey icon with 4 dots represents the amount of set of linked bids to which the current bid belongs (grey = 0), and a red icon with an 'X' represents the amount of bids mutually exclusive with the current bid (grey = 0).

ID	CMU ID	COMPLIANCE	STATUS
#1	CMU UC1	Waiting	Saved
#2	CMU UC1	Waiting	Saved
#3	CMU UC1	Waiting	Saved
#4	CMU UC1	Waiting	Saved
#5	CMU UC1	Waiting	Saved

RELATIONS

CONTRACT	RELATIONS
1	4
1	4
1	4
1	4
1	4

Legend

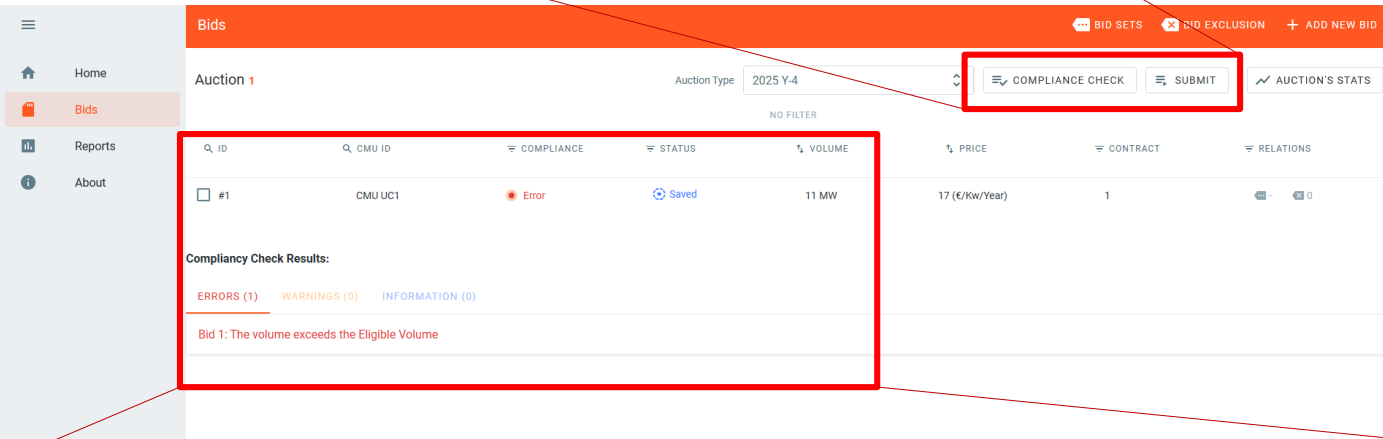
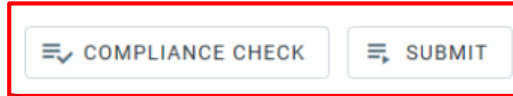
-  Amount of set of linked bids to which current bid belongs (grey = 0)
-  Amount of bids mutually exclusive with current (grey = 0)

- Bids relationships overview is available in the main dashboard
- Amount of mutually exclusive bids for each bid is visible
- Amount linked bids in each set is visible, in this case, none
- In this Use case, all bids are exclusive with 4 others



5. Auction | Bid submission

Compliance check



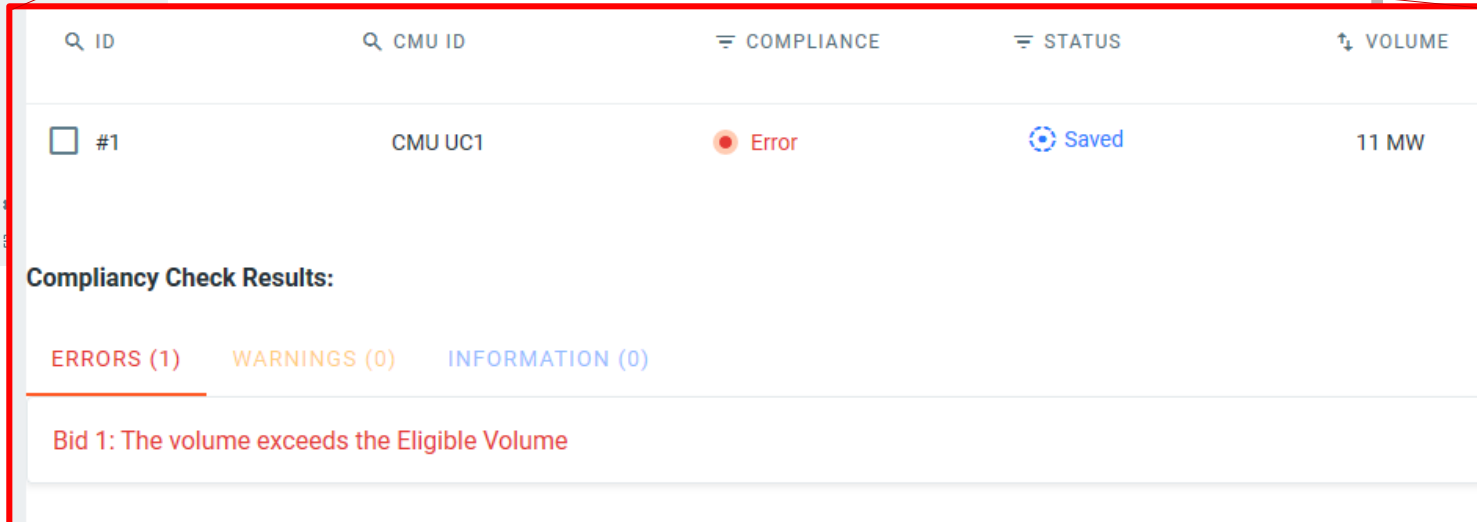
The screenshot shows the 'Bids' page with a table of bids. The table has columns for ID, CMU ID, Compliance, Status, Volume, Price, Contract, and Relations. Bid #1 is highlighted with a red box. The 'Compliance' column shows an 'Error' icon, and the 'Status' column shows a 'Saved' icon. Below the table, the 'Compliance Check Results' section is visible, showing 'ERRORS (1)', 'WARNINGS (0)', and 'INFORMATION (0)'. The error message is 'Bid 1: The volume exceeds the Eligible Volume'.

ID	CMU ID	COMPLIANCE	STATUS	VOLUME	PRICE	CONTRACT	RELATIONS
#1	CMU UC1	Error	Saved	11 MW	17 (€/Kw/Year)	1	

Compliance Check Results:

ERRORS (1) WARNINGS (0) INFORMATION (0)

Bid 1: The volume exceeds the Eligible Volume



This is a detailed view of the 'Bids' page, focusing on the compliance check results. The table shows Bid #1 with a volume of 11 MW, which is highlighted with a red box. The 'Compliance' column shows an 'Error' icon, and the 'Status' column shows a 'Saved' icon. Below the table, the 'Compliance Check Results' section is visible, showing 'ERRORS (1)', 'WARNINGS (0)', and 'INFORMATION (0)'. The error message is 'Bid 1: The volume exceeds the Eligible Volume'.

ID	CMU ID	COMPLIANCE	STATUS	VOLUME
#1	CMU UC1	Error	Saved	11 MW

Compliance Check Results:

ERRORS (1) WARNINGS (0) INFORMATION (0)

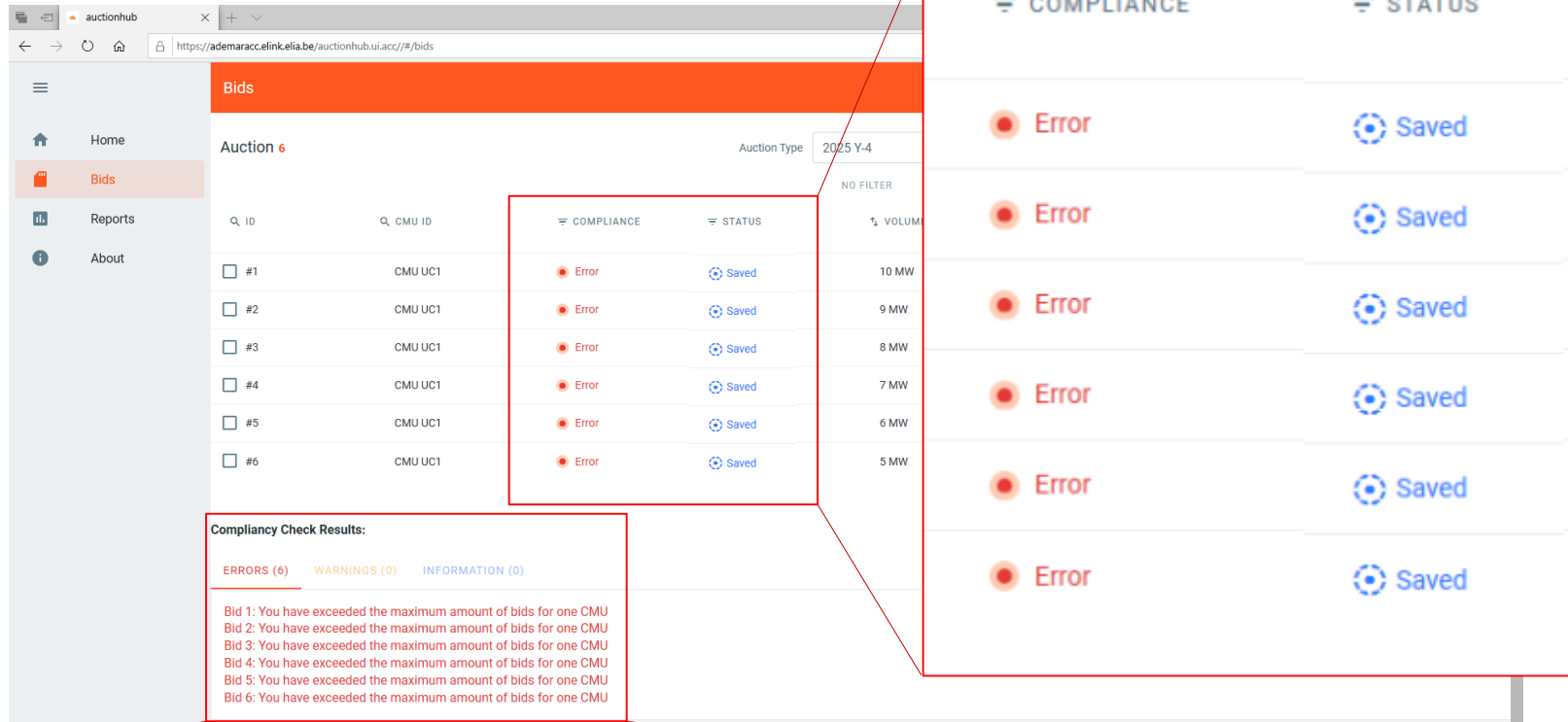
Bid 1: The volume exceeds the Eligible Volume

- “Compliance check” of “Submit” triggers a check on data provided by the user against FR and prequalified data.
- Any error or warning is sent to user via the error log (“Compliance check results”)
- *In this use case, the Eligible volume is 10 MW $\rightarrow 0 < Volume_{bid} \leq 10 \text{ MW} \rightarrow \text{bid \#1 is non compliant}$*
- Bid #1 stays in status “saved” as long as the user has not solved the error.
- Bid #1 cannot be submitted as long as the error has not been solved.



5. Auction | Bid submission

Compliance check



ID	CMU ID	COMPLIANCE	STATUS	VOLUME
#1	CMU UC1	Error	Saved	10 MW
#2	CMU UC1	Error	Saved	9 MW
#3	CMU UC1	Error	Saved	8 MW
#4	CMU UC1	Error	Saved	7 MW
#5	CMU UC1	Error	Saved	6 MW
#6	CMU UC1	Error	Saved	5 MW

Compliance Check Results:

ERRORS (6) WARNINGS (0) INFORMATION (0)

Bid 1: You have exceeded the maximum amount of bids for one CMU
Bid 2: You have exceeded the maximum amount of bids for one CMU
Bid 3: You have exceeded the maximum amount of bids for one CMU
Bid 4: You have exceeded the maximum amount of bids for one CMU
Bid 5: You have exceeded the maximum amount of bids for one CMU
Bid 6: You have exceeded the maximum amount of bids for one CMU

- 6 bids instead of maximum authorized amount (5) were submitted for CMU UC1.

ERRORS (6) WARNINGS (0) INFORMATION (0)

Bid 1: You have exceeded the maximum amount of bids for one CMU
Bid 2: You have exceeded the maximum amount of bids for one CMU
Bid 3: You have exceeded the maximum amount of bids for one CMU
Bid 4: You have exceeded the maximum amount of bids for one CMU
Bid 5: You have exceeded the maximum amount of bids for one CMU
Bid 6: You have exceeded the maximum amount of bids for one CMU

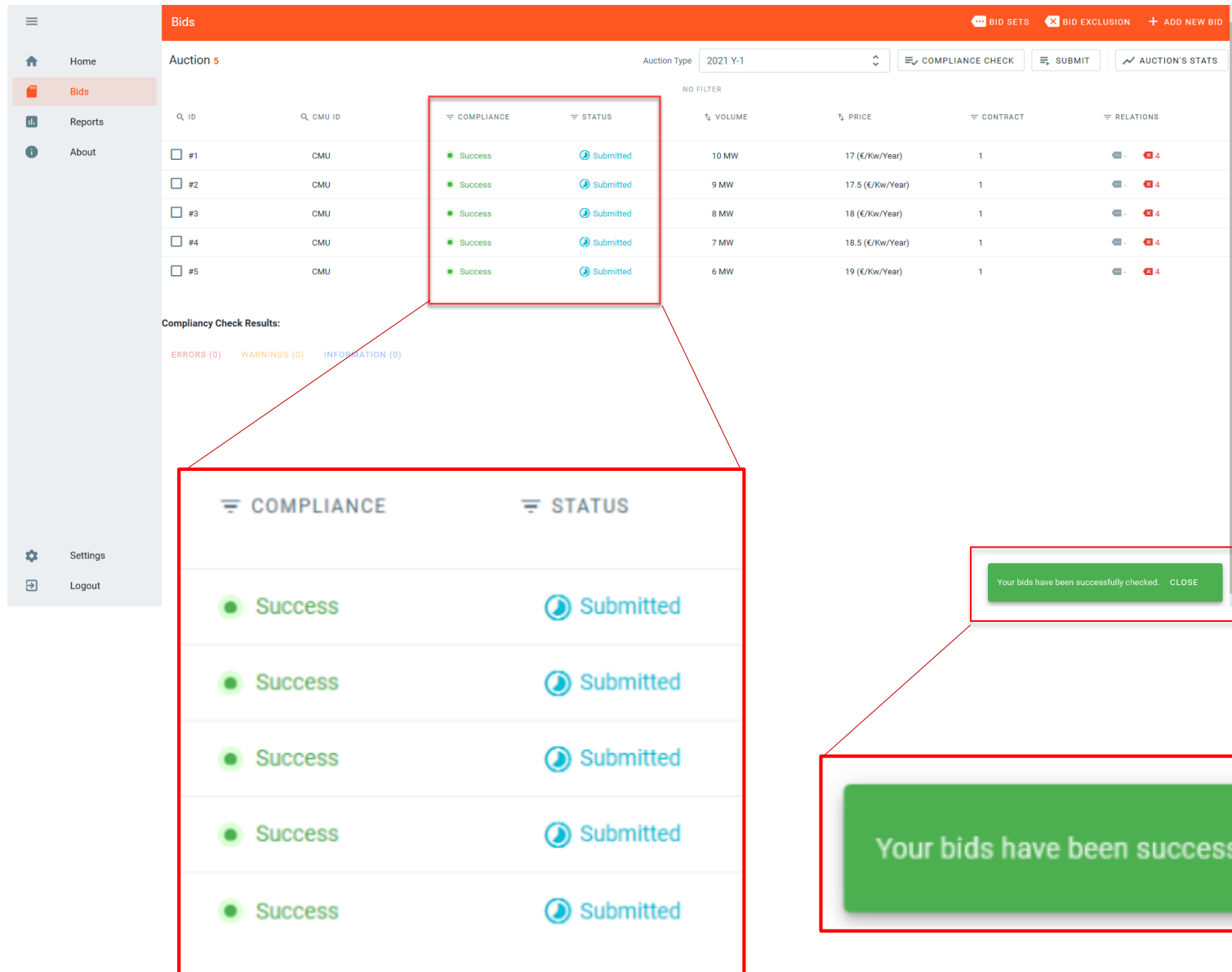
An error occurred when checking your bids. Please consult the error log CLOSE

An error occurred when checking your bids. Please consult the error log CLOSE



5. Auction | Bid submission

Submit bids



Bids

Auction Type: 2021 Y-1

COMPLIANCE CHECK SUBMIT AUCTION'S STATS

ID	CMU ID	COMPLIANCE	STATUS	VOLUME	PRICE	CONTRACT	RELATIONS
#1	CMU	Success	Submitted	10 MW	17 (€/Kw/Year)	1	4
#2	CMU	Success	Submitted	9 MW	17.5 (€/Kw/Year)	1	4
#3	CMU	Success	Submitted	8 MW	18 (€/Kw/Year)	1	4
#4	CMU	Success	Submitted	7 MW	18.5 (€/Kw/Year)	1	4
#5	CMU	Success	Submitted	6 MW	19 (€/Kw/Year)	1	4

Compliance Check Results:

ERRORS (0) WARNINGS (0) INFORMATION (0)

COMPLIANCE STATUS

Success Submitted

Success Submitted

Success Submitted

Success Submitted

Success Submitted

Your bids have been successfully checked. CLOSE

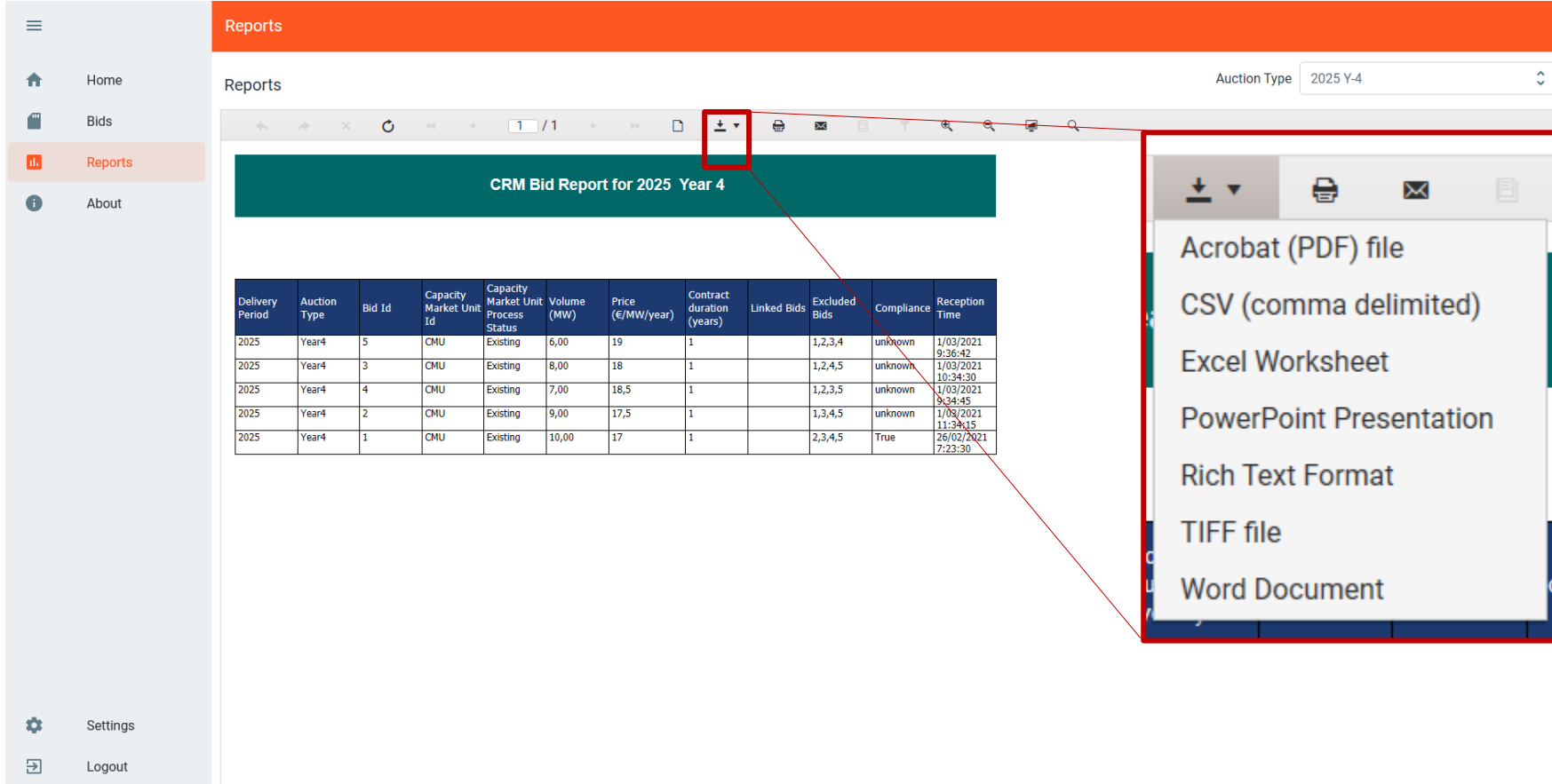
Your bids have been successfully checked. CLOSE

- Successfully submitted & compliant bids get status “Submitted”
- Successful submission popup will appear on the main screen
- Tool won't check that a bid has been created for all prequalified CMU's
- Any modification of prequalification data of a CMU will bring back all related bids to status “saved”
- Bids related to deleted prequalified CMU will get status “Cancelled”



5. Auction | Bid submission

Bidding session auction report



Reports

Reports

Auction Type 2025 Y-4

CRM Bid Report for 2025 Year 4

Delivery Period	Auction Type	Bid Id	Capacity Market Unit Id	Capacity Market Unit Process Status	Volume (MW)	Price (€/MW/year)	Contract duration (years)	Linked Bids	Excluded Bids	Compliance	Reception Time
2025	Year4	5	CMU	Existing	6,00	19	1		1,2,3,4	unknown	1/03/2021 9:36:42
2025	Year4	3	CMU	Existing	8,00	18	1		1,2,4,5	unknown	1/03/2021 10:34:30
2025	Year4	4	CMU	Existing	7,00	18,5	1		1,2,3,5	unknown	1/03/2021 9:34:45
2025	Year4	2	CMU	Existing	9,00	17,5	1		1,3,4,5	unknown	1/03/2021 11:34:15
2025	Year4	1	CMU	Existing	10,00	17	1		2,3,4,5	True	26/02/2021 7:23:30

Acrobat (PDF) file

CSV (comma delimited)

Excel Worksheet

PowerPoint Presentation


Rich Text Format

TIFF file

Word Document

- Every user may generate bidding report for internal use
- Bidding report gathers all bids and related information created by CRM candidate (all bids statuses are reported)
- Report may be printed, exported or send
- Report format may be exported on a tailored format to meet user's preferences

» 5. Auction | Results publication

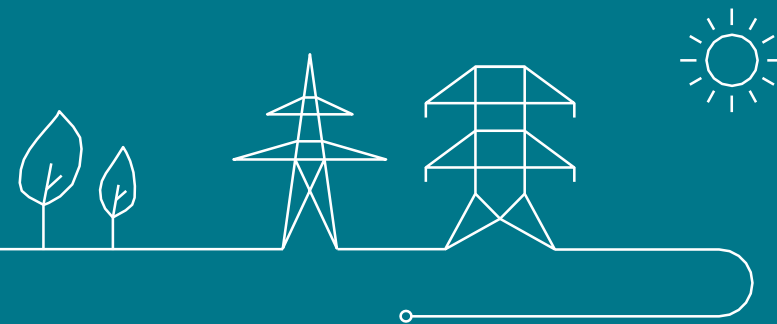
Bid #1
Price: **17 EUR/kW/year**
Volume: **10 MW**
Contract duration: **1 year**
Linked set: **NO**
Exclusive bids: **2;3;4;5** 

Auction results		
Selected bids		
	Selected Bid volumes	10 MW
	Related Price	17€/kW/year
	Capacity contract duration	1 year
CMU Remaining Eligible Volume		0 MW ¹
Issuance date of the 1 st quarterly report		/

- Bid 1 is selected in the Auction after global optimization
- Result validation according to modalities set in Royal Decree Control
- Result communication to IndustryOfFuture at latest 31/10/2021

¹ The CMU Eligible Volume has been selected

6. Capacity Contract signature





6. Capacity Contract signature

- To officially **become** a **Capacity Provider**, IndustryOfTheFuture shall **sign** the **Capacity Contract**
- **Once** the Capacity Contract is **signed**, IndustryOfTheFuture **enters** the **Pre-delivery Period**

