

AggregateEU – setting up the platform: The challenges*



2023-06-07
#FSRDebates

*Presentations as held publicly; Graphics and explanations reflect the status at the time of their creation and are exemplary.

Agenda

- ✓ **Building a complex service fast**
 - ✓ Guiding Principle: Our North Star
 - ✓ Iterative Agile Software Development
- ✓ **Business Processes**
 - ✓ Tender process
 - ✓ Matching
 - ✓ Reporting and Transparency

Building a guiding principle: our “North Star”

Our north star:

We want to contribute to the Security of Supply by building a solution that is bridging extraordinary emergency situations for winter 2023/2024, i.e. with a focus on LNG.

Adaptability and a priority on running processes drive the project approach

The high complexity and dynamic developments make it hard to determine the suitability of the design, already at the beginning.

Therefore, **we optimize for adaptability** by

- 1 **prioritizing early value delivery** over feature completeness;
- 2 **ensuring the necessary quality level** of the required functionality;
- 3 **seeking out feedback** on processes that might need to be adapted due to changing conditions or insights generated during the operation and usage of processes.

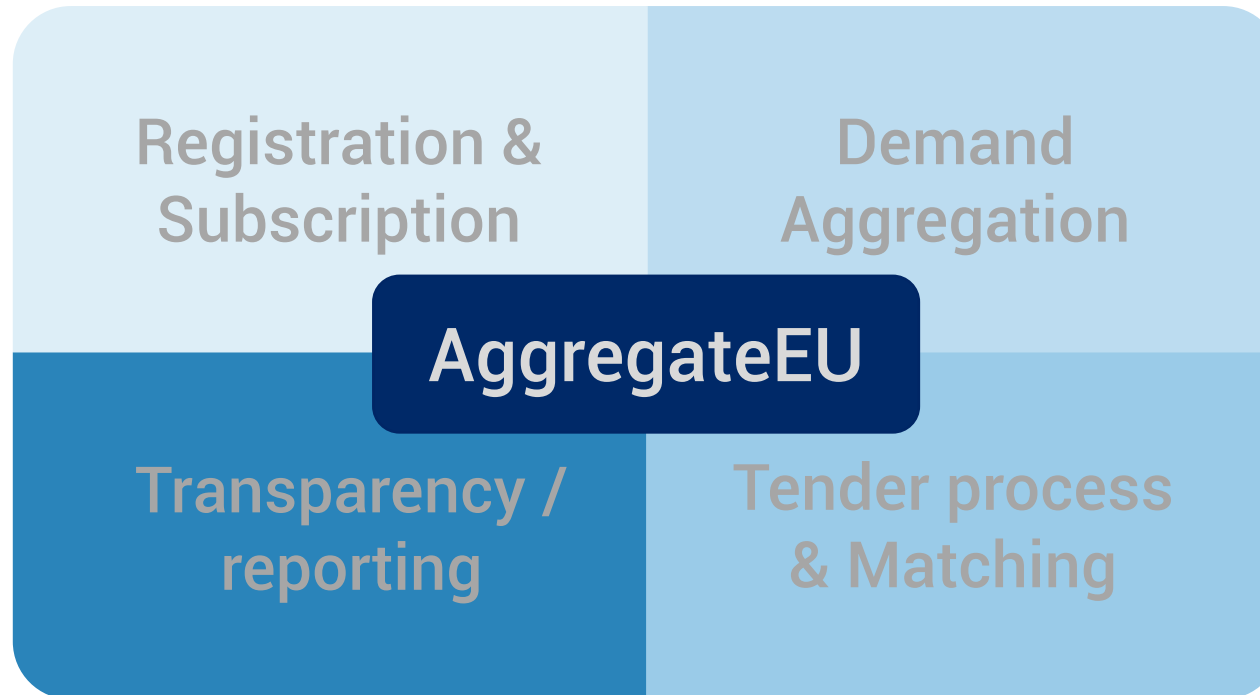
Iterative Agile Software Development

The new AggregateEU service is comprised of four components

Registration of the interested parties, including indication:

- if also "consortium leader"
- financial collateral

Contracts are concluded outside the platform will have to be reported to PRISMA and related information will be provided to DG ENER



Potential buyers can indicate:

- location,
- quantities, and
- period

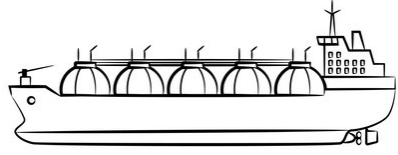
Tender sheets will be created with aggregated demand per location and month.

Collect the offers of potential buyers and match the potential buyers and the potential sellers for contract negotiation

Agenda

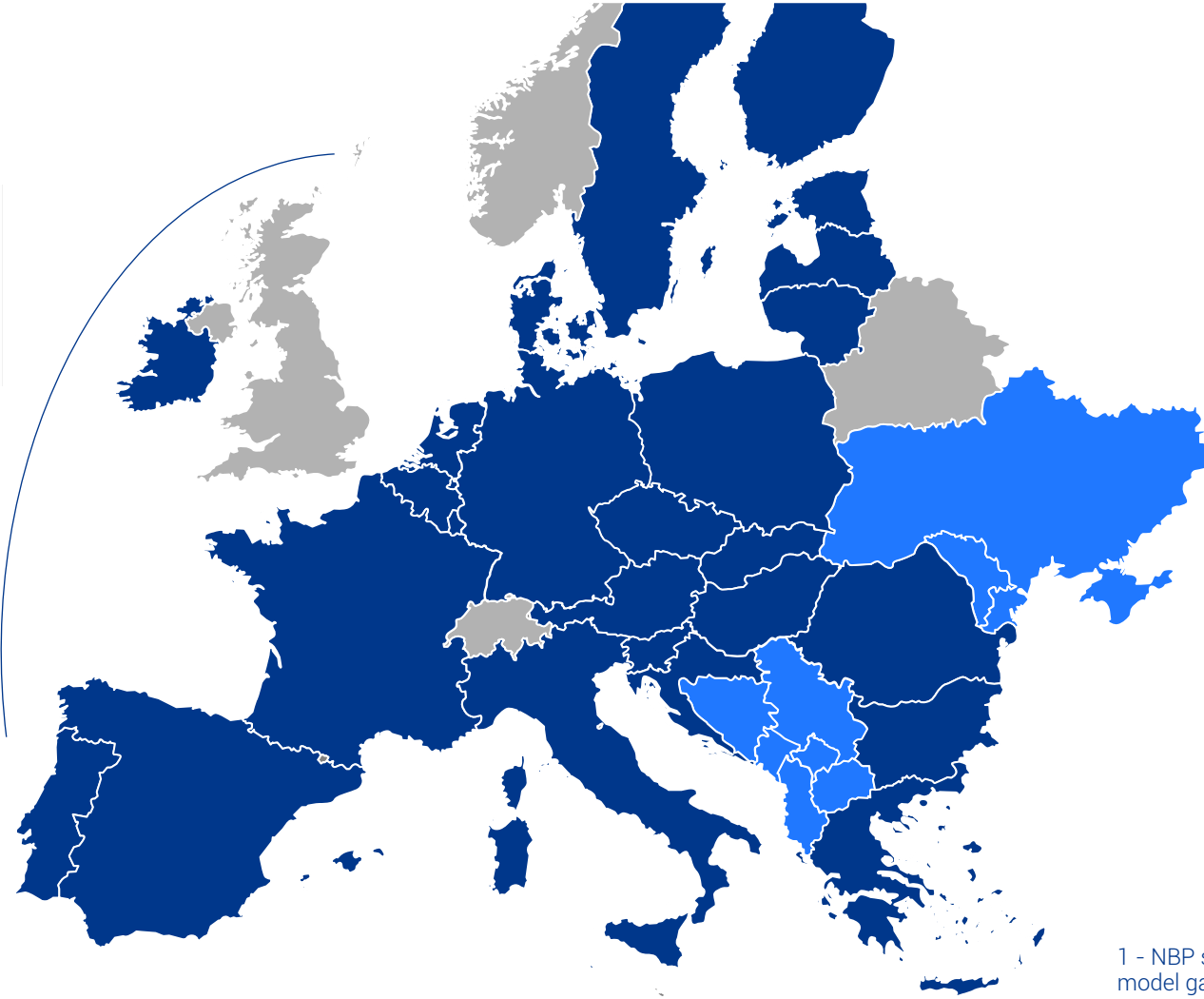
- ✓ Building a complex service fast
 - ✓ Guiding Principle: Our North Star
 - ✓ Iterative Agile Software Development
- ✓ **Business Processes**
 - ✓ Tender process
 - ✓ Matching
 - ✓ Reporting and Transparency

AggregateEU will also facilitate LNG products



Virtual EU LNG

- **Location:** Virtual delivery points: **North-West Europe** and **South-East Europe**
- **Units of commodity:** Energy units
- **Period:** month
- **Duration:** 12, rolling
 - until March 2025 as of round 2



National Balancing Point(s)¹

- **Location:** National Balancing Points
- **Units of commodity:** Energy units
- **Period:** month
- **Duration:** 12, rolling
 - until March 2025 as of round 2
- **Terms:** EFET general agreement recommended

¹ - NBP stands for National Balancing Point. In the NBP model gas anywhere in the country within the national transmission system counts as NBP gas. This brings buyers and sellers together to simplify trade.

Bidding for a tender

Create Bids

Ends in 23:57:07 ● open bids

Tender Details

Location: TRF
Month: May '23
Quantity Total: 16,000 GWh

Info Sheet June-23-001
Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam ...
show more

Bids

Gas Quantity GWh **Price** Euro / GWh **Valid through**

[+ Add Bid](#)

Submit

A potential seller will have to indicate for each bid:

- the **quantity**, the seller is willing to sell. The minimum amount is **5 GWh at NBPs** and **300 GWh at Virtual EU LNG Points**
- the **price**, at which the seller would like to sell the gas
- (optional) the validity of the bid.

A potential seller can **edit** its bid until the bidding window is open.

A potential seller can submit **more bids** in the same tender process.

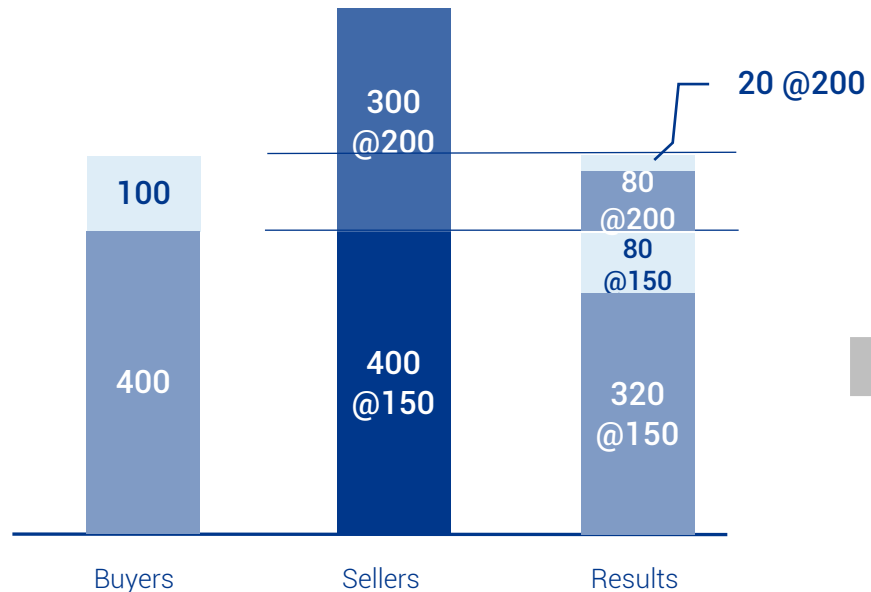
Illustrative example of how the graphical interface could look like

The price at the Virtual LNG Points will indicate **the absolute value, in € / GWh**, while the price at the Virtual Trading Points will express **the difference, also negative, in € / GWh with TTF**

Principles of the matching algorithm

- Every tender is independent
- No competition between potential buyers. AggregateEU shall not collect any information than may provide advantages to specific potential buyers
- Non-discriminatory towards potential buyers. Every potential buyer shall be treated equally and have the same quality of matching
- The algorithm shall minimize the costs of the potential buyers bidding in one tender
- The offer to sell of the sellers will be ranked from the lowest to the highest price
- In case of over-demand or over-supply, the pro-rata mechanism is used
- Rationalize the number of matched positions that might lead to concluded contracts.

Illustrative example – TRF May '23



Over supply

Buyer A

- From Seller D: 320 @150
 - From Seller C: 80 @200
- Average Price: 160

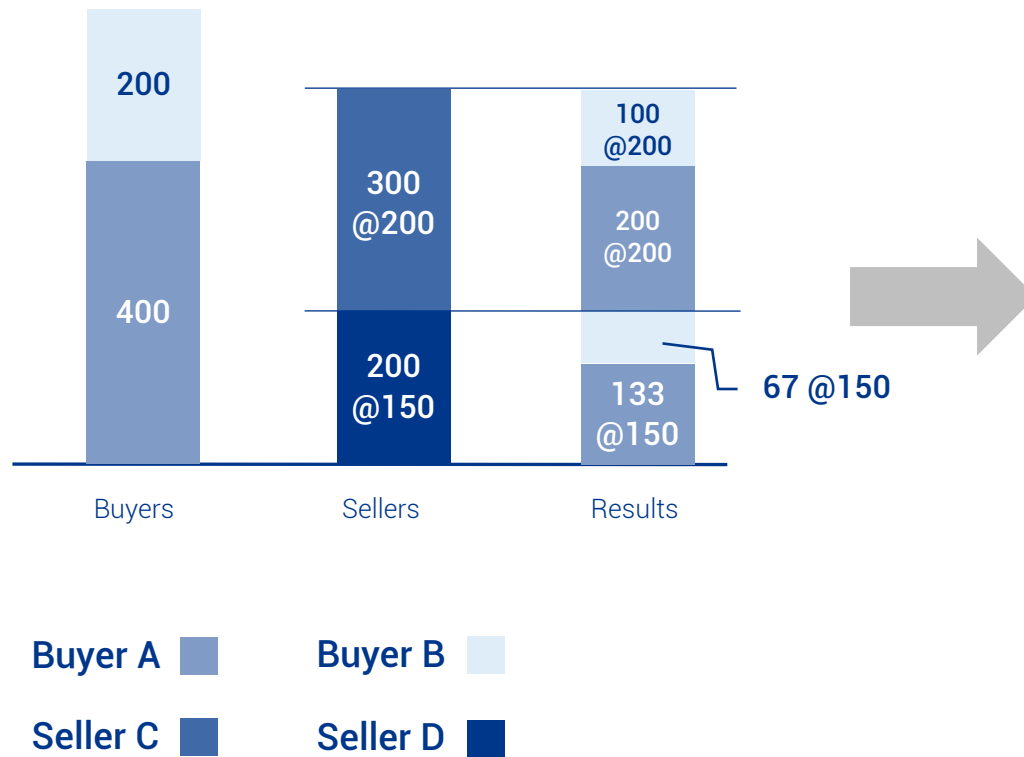
Buyer B

- From Seller D: 80 @150
 - From Seller C: 20 @200
- Average Price: 160

Principles

- The cheapest seller has the priority to be allocated. This implies **lowest costs for the buyers**.
- Once the quantities of the cheapest seller is fully allocated the second in list is allocated
- The algorithm is allocating the demand using **pro-rata**
- Every buyer may **"pay" the same average price**
- All the demand of the buyers is included in the calculation, regardless of financial capability, and satisfied

Illustrative example – TRF June '23



Over demand

Buyer A

- From Seller D: 133 @150
- From Seller C: 200 @200

Average Price: 180

Buyer B

- From Seller D: 67 @150
- From Seller C: 100 @200

Average Price: 180

Principles

- The cheapest seller has the priority to be allocated. This implies **lowest costs for the buyers**.
- Once the quantities of the cheapest seller is fully allocated the second in list is allocated
- The algorithm is allocating the demand using **pro-rata**
- Every buyer may **"pay" the same average price**
- Each buyer has the same percentage of unsatisfied demand

Information on matching results to buyers

Virtual LNG

AggregateEU contract phase

Your matches [Enter Concluded Contract](#)

Matching result [How to proceed](#)

Tender Details

Location:	North-West Europe	Your Share of Gas:	3000 GWh
Month:	May '23	Average Price:	50 Euro/GWh
		Info Sheet	
Your demanded Quantity:	3000 GWh		
Total demanded Quantity:	13,000 GWh		

Possible Consortium Parties for joined Procurement

Company A (You)	Company B
Streetname 123a 04154 Leipzig +49 1636582146 mail@company-a.eu	Another Street 4 Interested terminal: Rotterdam 02025 Hamburg +49 047238273 mail@company-b.com

Possible Seller

Seller Company C	Your Share of Gas:	3000 GWh
Example Street 8 34534 A City +39 3245234999 mail@company-c.com	Indicative Price:	50 Euro/GWh
	Price valid through:	31.06.2023
	Financial collaterals:	Bank guarantee

Illustrative example of how the graphical interface could look like

VTP/NBP

AggregateEU contract phase

Your matches [Enter Concluded Contract](#)

Matching result [How to proceed](#)

Tender Details

Location:	North-West Europe	Your Share of Gas:	3000 GWh
Month:	May '23	Average Price:	50 Euro/GWh
		Info Sheet	
Your demanded Quantity:	3000 GWh		
Total demanded Quantity:	13,000 GWh		

Possible Seller

Seller Company C	Your Share of Gas:	3000 GWh
Example Street 8 34534 A City +39 3245234999 mail@company-c.com	Indicative Price:	50 Euro/GWh
	Price valid through:	31.06.2023
	Financial collaterals:	Bank guarantee

Illustrative example of how the graphical interface could look like

AggregateEU will provide the following information to potential buyers for each tender and each seller:

- **General information** to contact the seller
- **Quantities allocated to the seller(s)**
- **Prices for each matched quantity**
- **Validity of the price indication**

In case of Virtual LNG also the information about **the other successful companies** and **their preferred LNG terminal(s)**. This to allow possible cooperation in logistics.

Information on matching results to sellers

The screenshot displays the 'AggregateEU' interface. At the top, it shows 'contract phase' with a green dot. Below this, 'Your matches' is displayed with a 'View Concluded Contract' button. The main section is titled 'Matching result' and includes a 'How to proceed' button. It is divided into 'Tender Details' and 'Your Bid'. Under 'Tender Details', it lists Location: North-West Europe, Month: May '23, and Quantity Total: 2,000 GWh. Under 'Your Bid', it lists Gas Quantity: 13000 GWh and Price: 50 Euro, with an 'Info Sheet' link. Below this, 'Possible Buyers/Consortium to Buy' is shown, listing 'Company A' and 'Company B'. Each company entry includes contact information and specific bid details like 'Gas Quantity to buy' and 'Financial collaterals'.

Tender Details		Your Bid	
Location:	North-West Europe	Gas Quantity:	13000 GWh
Month:	May '23	Price:	50 Euro
Quantity Total:	2,000 GWh		Info Sheet

Possible Buyers/Consortium to Buy	
Company A Streetname 123a 04154 Leipzig +49 1636582546 mail@company-a.eu	Gas Quantity to buy: 2000 GWh Financial collaterals: Bonds & debt security Open to use a broker
Company B Another Street 4 02025 Hamburg +49 047238273 mail@company-b.com	Gas Quantity to buy: 500 GWh Financial collaterals: Bank guarantee Bonds & debt security Open to use a broker

Illustrative example of how the graphical interface could look like



AggregateEU will provide the following information to potential Seller(s) for each tender and for each buyer:

- **General information** to contact the buyer(s),
- **Quantity allocated** to the buyer(s),
- **Financial securities** indicated by the buyer(s).

Contracting and Transparency

Enter Contract Details

Contract Details

Buyer *	<input type="text" value="Type to Search"/>	▼
Seller *	<input type="text" value="Type to Search"/>	▼
Gas Quantity *	<input type="text" value="E.g. 1000"/>	GWh
Time Frame *	<input type="text" value="DD.MM:YYYY"/> 	<input type="text" value="DD.MM:YYYY"/> 
Location *	<input type="text" value="Type to Search"/>	▼
Quality	★★★★	

Illustrative example of how the graphical interface could look like

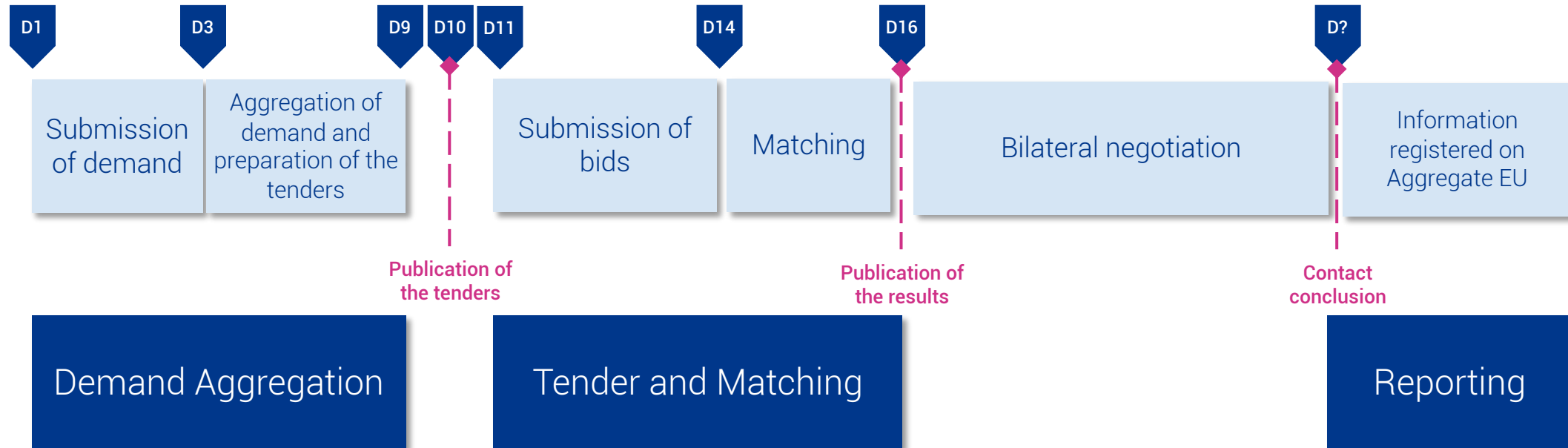
AggregateEU will provide this information to DG ENER. Other obligations, such as REMIT obligations, will have to be fulfilled directly by the contractual parties.

Negotiation between potential Buyer(s) and Seller(s) is **done outside AggregateEU Platform**

Concluded contracts must be reported by the **Buyers** to DG ENER via AggregateEU. Contractual parties will have to report:

- **Counterparties**
- **Gas Quantity**
- **Time Frame**
- **Location**
- **Quality of the contract** (optional)

Timetable of a tendering round



The days (D) shall be counted as calendar days from Monday till Friday.

Thank you