



How are the orders aggregated and how the supply and demand curves are drawn on the Day Ahead Market?

Consider drawing the demand curve with the following three purchase orders submitted:

ORDER 1:

	Area	Bulgaria				
	Currency	EUR				
Price Steps		0,0	40,0	40,1	70,0	70,1
Hour 1		30,0	30,0	20,0	20,0	0,0
Hour 2						

ORDER 2:

	Area	Bulgaria				
	Currency	EUR				
Price Steps		0,0	50,0	50,1	90,0	90,1
Hour 1		50,0	50,0	15,0	15,0	0,0
Hour 2						

ORDER 3:

	Area	Bulgaria				
	Currency	EUR				
Price Steps		0,0	30,0	30,1	90,0	90,1
Hour 1		15,0	15,0	5,0	5,0	0,0
Hour 2						

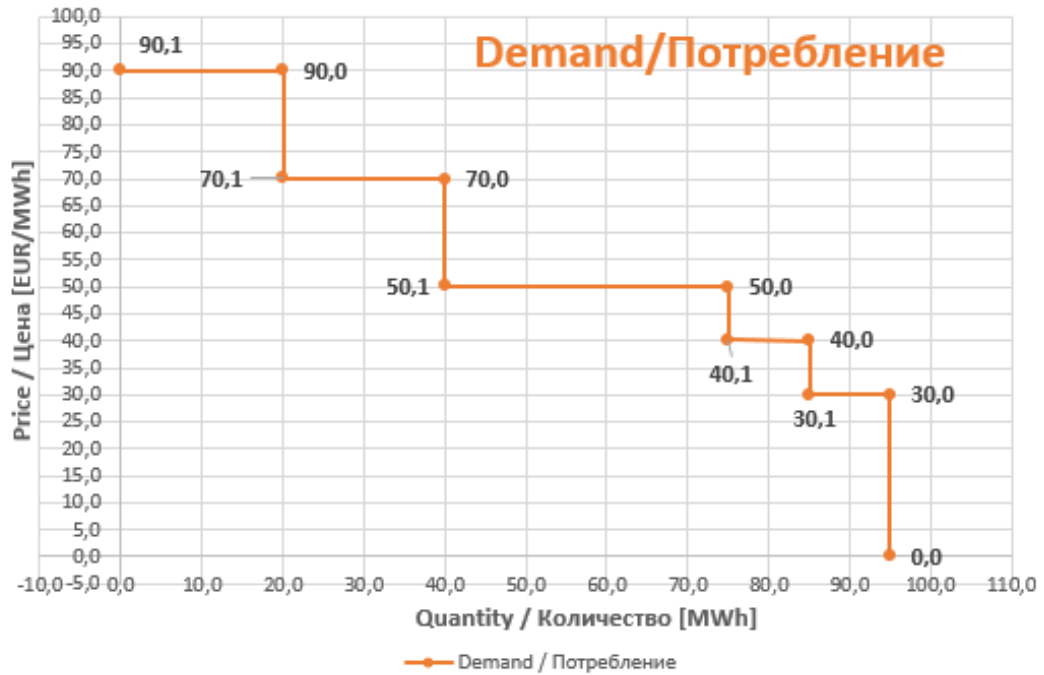
The results at every single price step for the three order will be:

- In the price range between 0 and 30 EUR/MWh, the total traded volume will be 95 MWh
- In the price range between 30 and 30,1 EUR/MWh, the total traded volume will be quantity between 95 and 85 MWh
- In the price range between 30,1 and 40 EUR/MWh, the total traded volume will be 85 MWh
- In the price range between 40 and 40,1 EUR/MWh, the total traded volume will be quantity between 85 and 75 MWh
- In the price range between 40,1 and 50 EUR/MWh, the total traded volume will be 75 MWh
- In the price range between 50 and 50,1 EUR/MWh, the total traded volume will be quantity between 75 and 40 MWh
- In the price range between 50,1 and 70 EUR/MWh, the total traded volume will be 40 MWh
- In the price range between 70 and 70,1 EUR/MWh, the total traded volume will be quantity between 40 and 20 MWh
- In the price range between 70,1 and 90 EUR/MWh, the total traded volume will be 20 MWh
- In the price range between 90 and 90,1 EUR/MWh, the total traded volume will be quantity between 20 and 0 MWh

Aggregated in a single order, the three separate orders can be represented in the following way:

Area	Bulgaria										
Currency	EUR										
Price Steps	0,0	30,0	30,1	40,0	40,1	50,0	50,1	70,0	70,1	90,0	90,1
Hour 1	95,0	95,0	85,0	85,0	75,0	75,0	40	40,0	20,0	20,0	0,0
Hour 2											

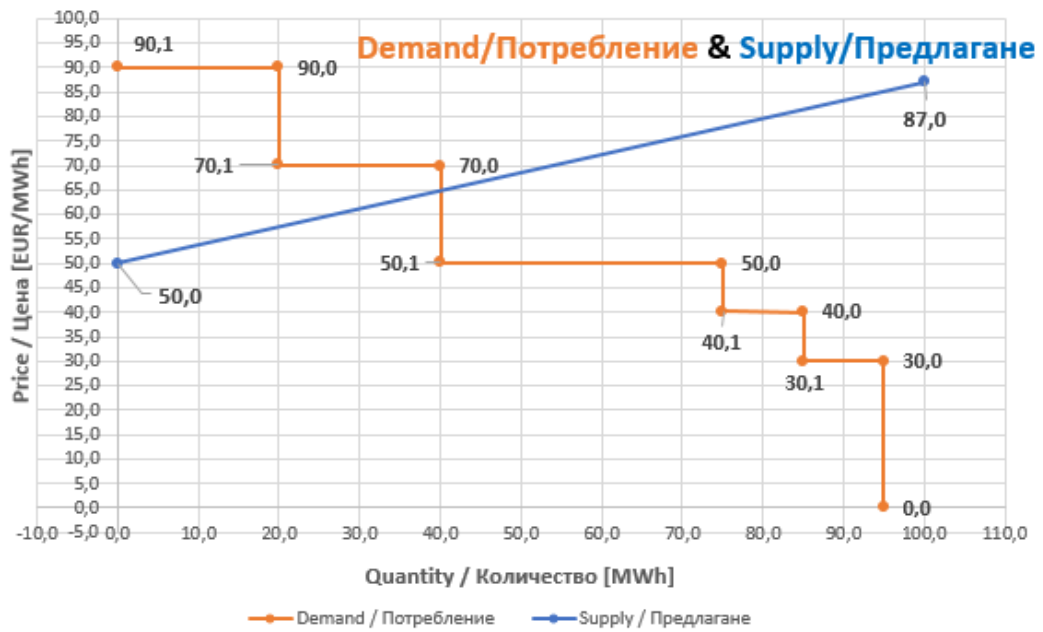
Graphically, the aggregated demand curve is shown below:



If we add this sell order:

Area	Bulgaria	
Currency	EUR	
Price Steps	50,0	87,0
Hour 1	0,0	-100,0
Hour 2		

The demand and supply curves based on the examples above can be graphically represented in the following way: :



RESULT:

In the given example, the **price in hour 1** is **65 EUR/MWh** with a traded volume of **40 MWh**.

- The Market participant, who submitted **order 1** will purchase **20 MWh** at a price of **65 EUR/MWh**
- The Market participant, who submitted **order 2** will purchase **15 MWh** at a price of **65 EUR/MWh**
- The Market participant, who submitted **order 3** will purchase **5 MWh** at a price of **65 EUR/MWh**