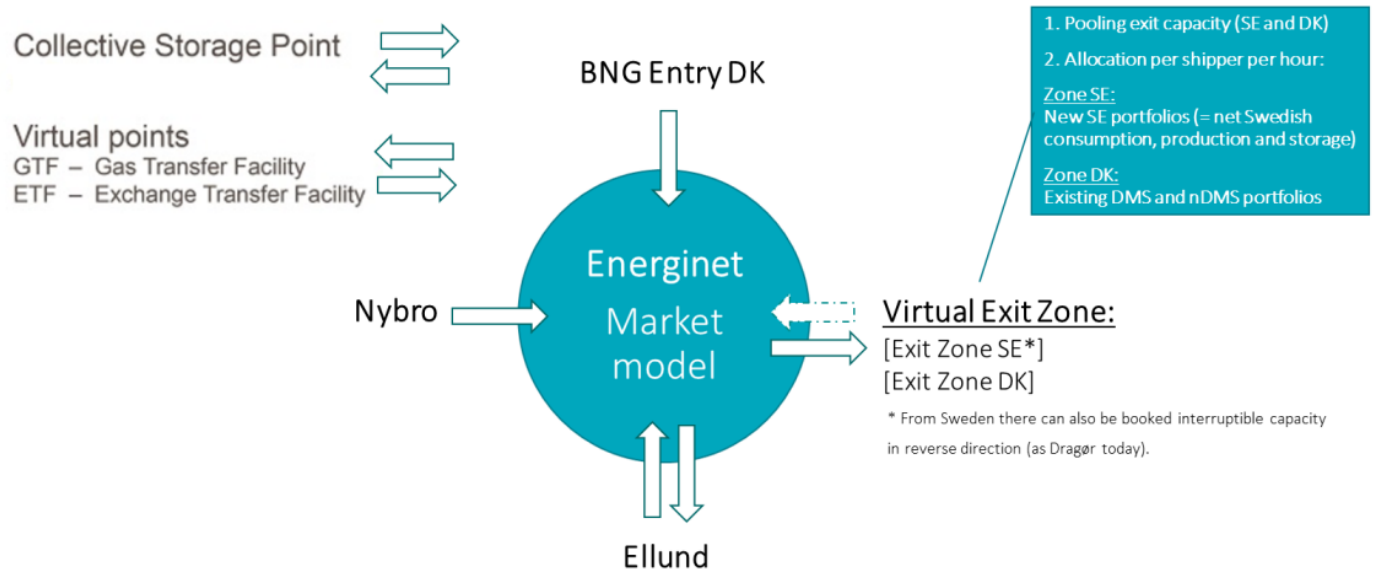
# EXAMPLES OF HOW THE MODELS WORK

## How to purchase capacity and how to balance

# THE DANISH CAPACITY MODEL

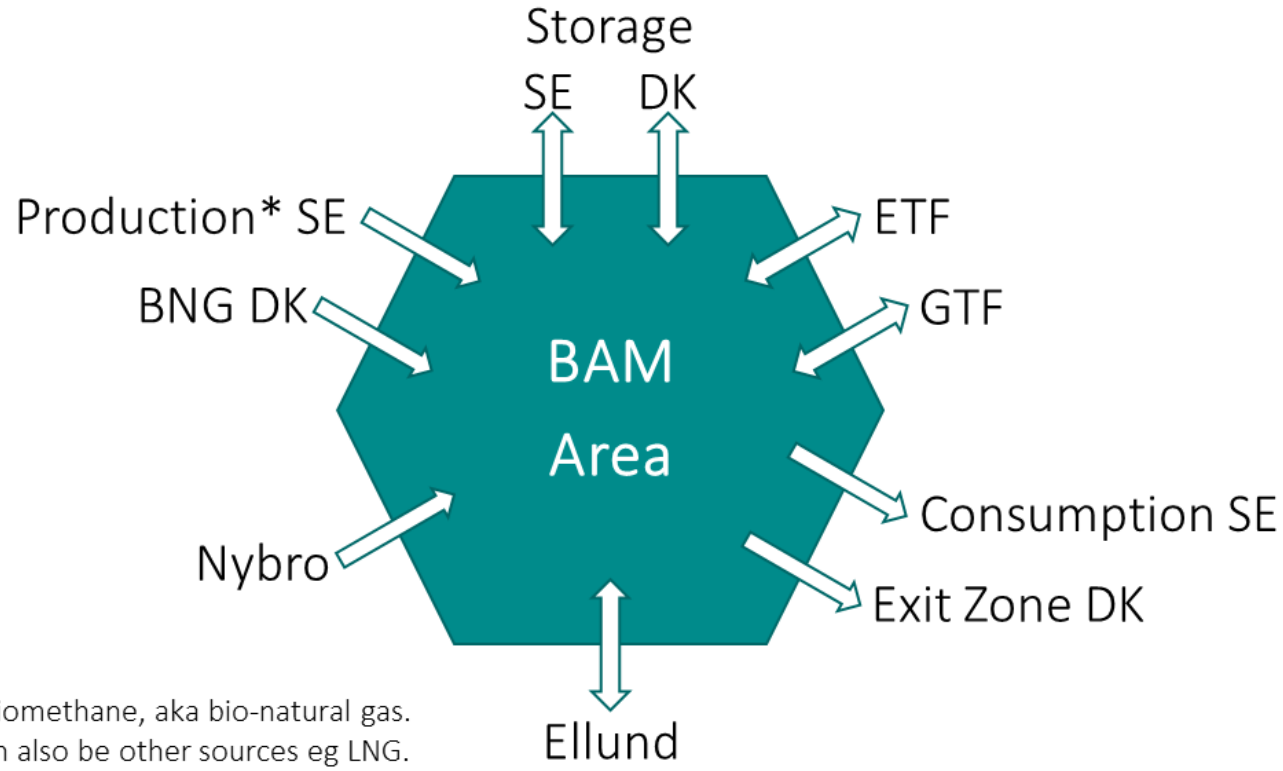
- Capacity is purchased at Ellund, Nybro and BNG as usual.

- Capacity purchased for the Virtual Exit Zone can be used to ship gas to Sweden versus consumption in the Danish Exit Zone



# THE JOINT BALANCING ZONE AREA

At 14:00 after the gas day each shipper will be allocated at each point in the balancing model for the gasday-1. Shippers are informed about their total imbalance quantity.



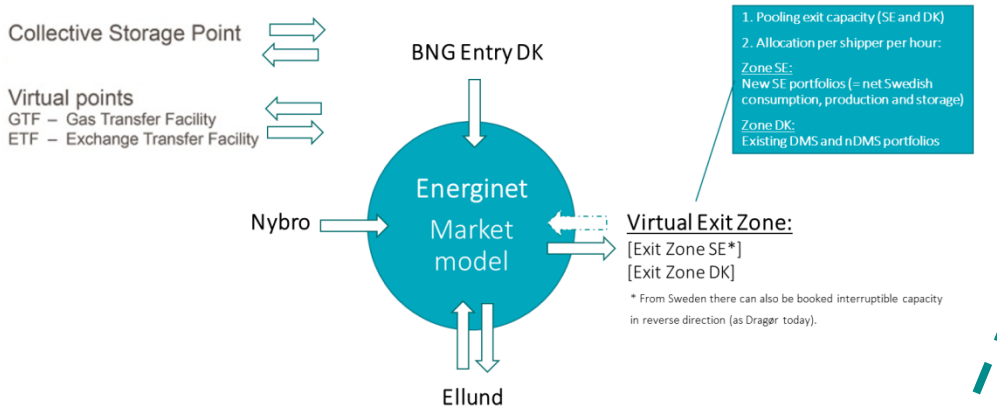

*Today only biomethane, aka bio-natural gas.
In future it can also be other sources eg LNG.

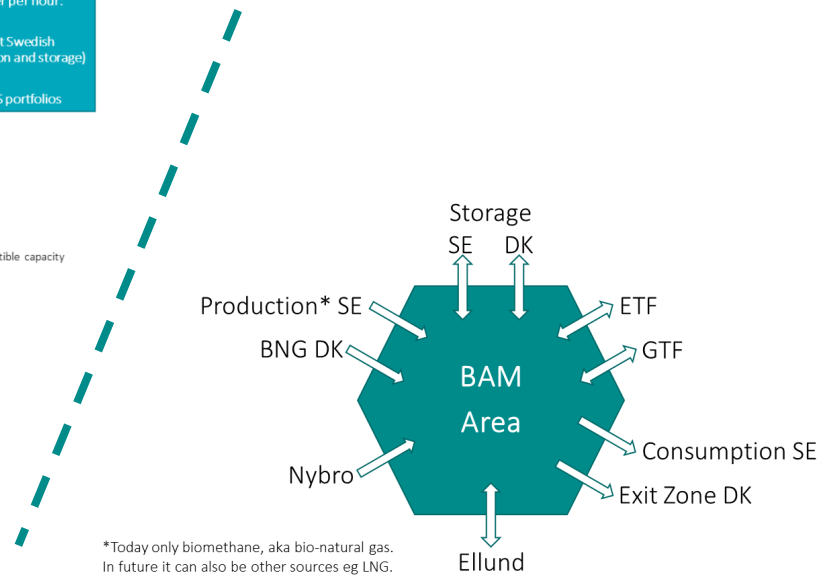
# EXAMPLE -CASE 1

## A SHIPPER/BA BRINGS GAS FROM GERMANY AND GTF TO SWEDISH CONSUMPTION

| Balancing points | Allocation |
|---|---|
| Consumption SE | 10 |
| Ellund Entry | 6 |
| GTF Entry | 4 |
| Total balance | 0 |

| Capacity purchase points | Unit |
|---|---|
| Ellund Entry | 6 |
| Virtual Exit Zone | 10 |



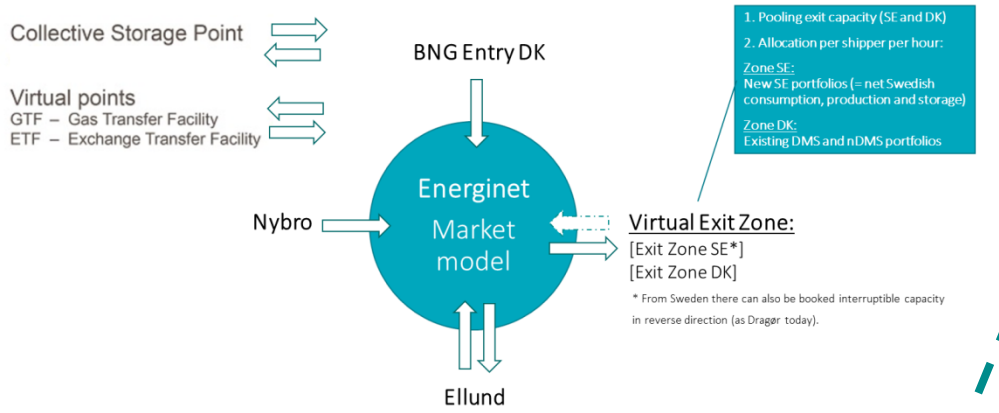



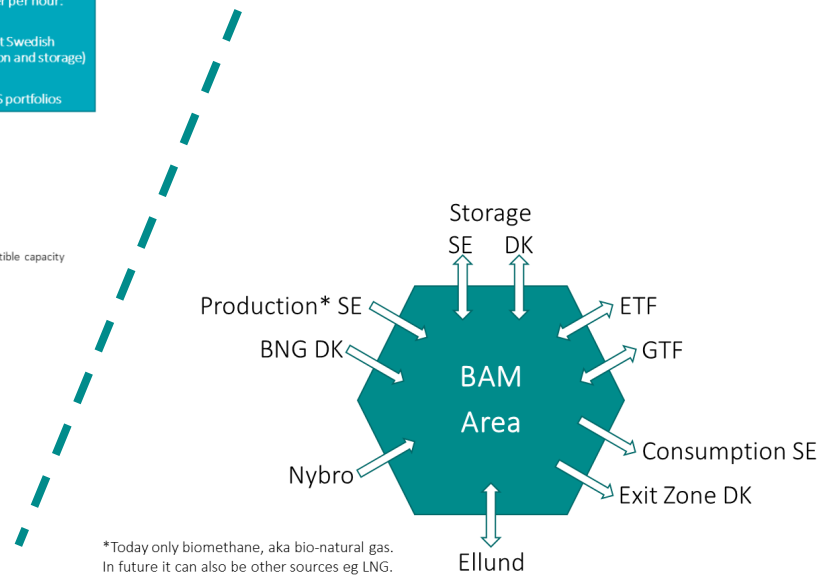
# EXAMPLE – CASE 2

## A SHIPPER/BA WHICH TO TRANSPORT BNG PRODUCED IN SWEDEN TO GERMANY (NOT BY PHYSICAL FLOW)

| Balancing points | Allocation |
|---|---|
| Production SE | 10 |
| Ellund Exit | 6 |
| Total Balance | 4 |

| Capacity purchase points | Unit |
|---|---|
| Virtual Exit Zone<br>- Reverse direction | 10 |
| Ellund Exit | 6 |



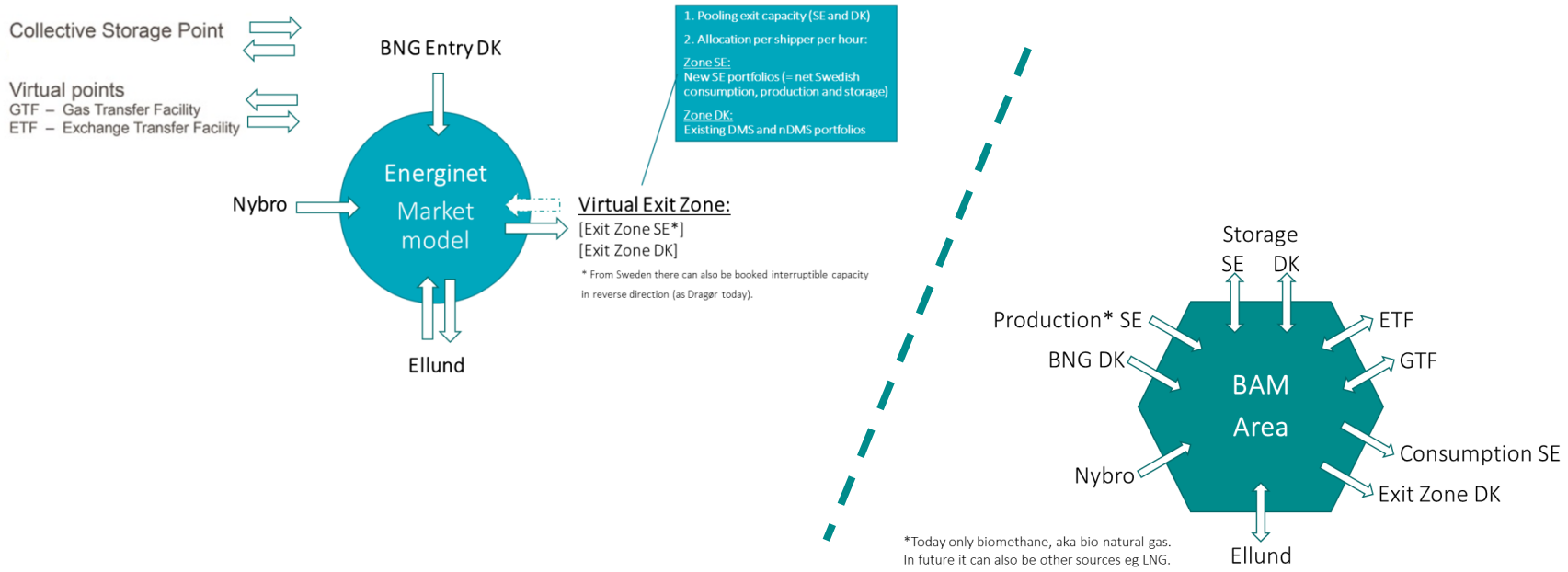



# EXAMPLE – CASE 3

## A SHIPPER/BA WANTS TO BRING BNG FROM DANMARK TO SWEDISH CONSUMPTION AND TO DANISH CONSUMPTION

| Balancing points | Allocation |
|---|---|
| BNG DK | 10 |
| Exit Zone DK | 10 |
| Consumption SE | 5 |
| Total Balance | -5 |

| Capacity purchase points | Unit |
|---|---|
| BNG DK | 10 |
| Virtual Exit Zone | 15 |

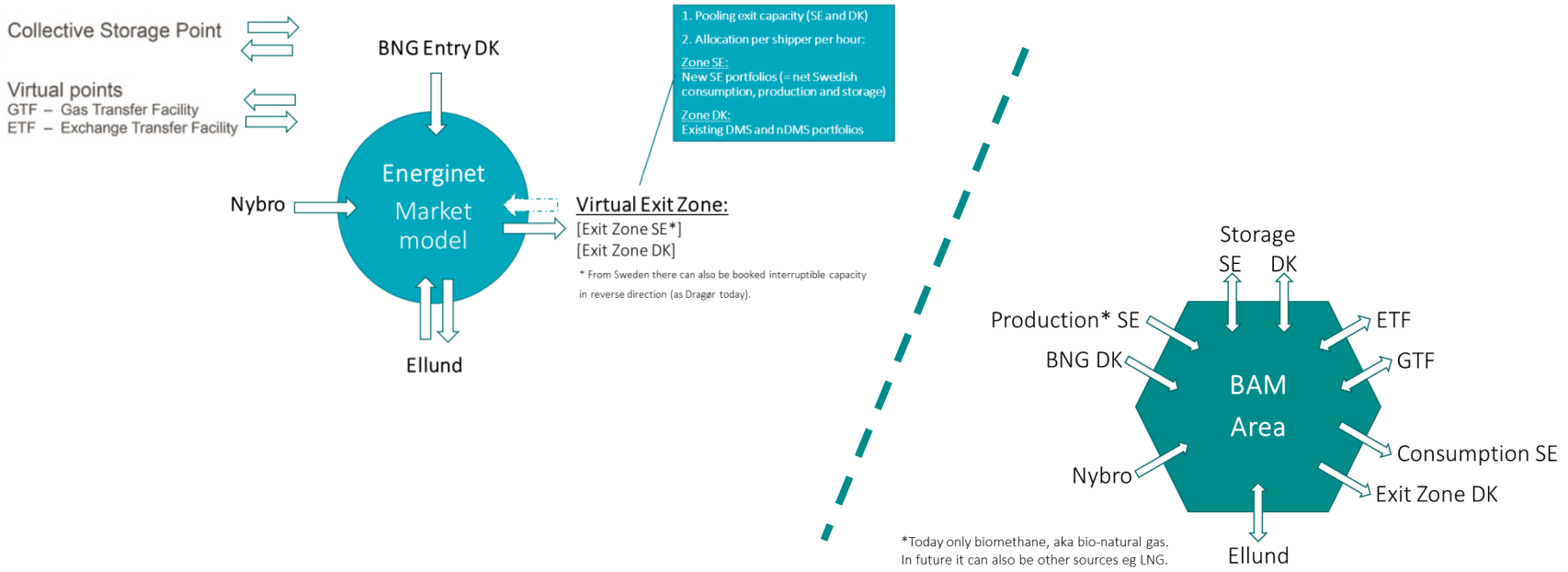


# EXAMPLE – CASE 4

## A SHIPPER BRINGS GAS FROM GSD, ETF AND PRODUCTION IN SWEDEN TO CONSUMPTION IN SWEDEN

| Balancing points | Allocation |
|---|---|
| Gas Storage DK Entry | 10 |
| ETF Entry | 10 |
| Production SE | 5 |
| Consumption SE | 20 |
| Total Balance | 5 |

| Capacity purchase points | Unit |
|---|---|
| Virtual Exit Zone | 15 |

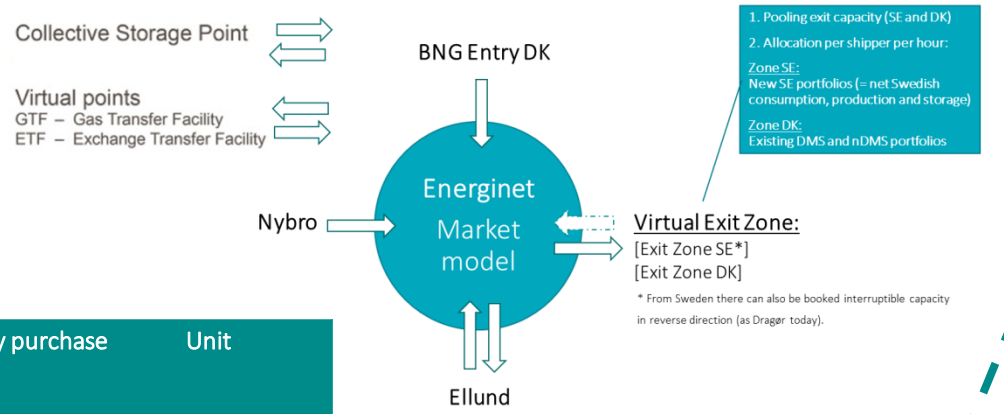


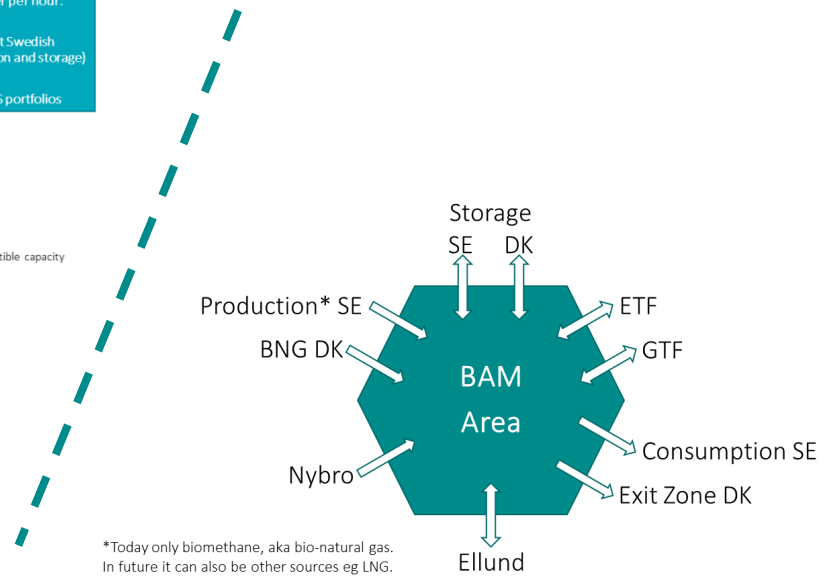
# EXAMPLE – CASE 5

## A SHIPPER BRINGS GAS FROM BNG DK, GTF, ETF TO CONSUMPTION IN SWEDEN AND DENMARK

| Balancing points | Allocation |
|---|---|
| BNG DK | 100 |
| GTF Entry | 50 |
| ETF Entry | 50 |
| Exit Zone DK | 50 |
| Consumption SE | 200 |
| Total Balance | -50 |

| Capacity purchase points | Unit |
|---|---|
| BNG DK | 100 |
| Virtual Exit Zone | 250 |



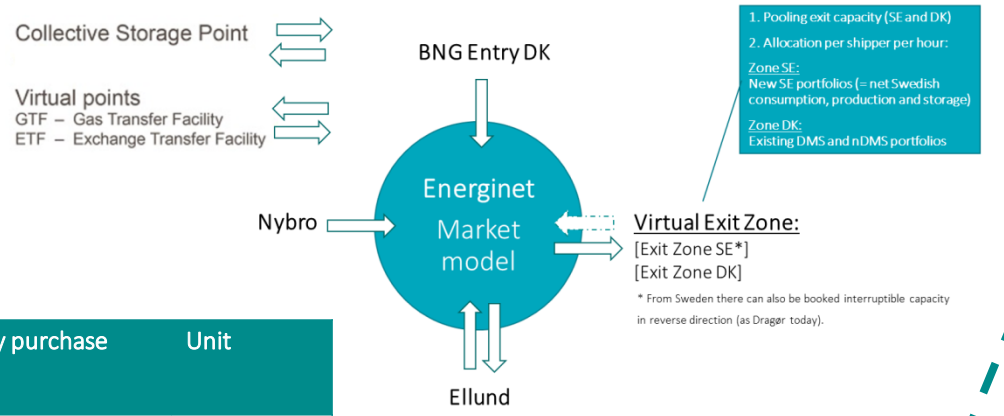



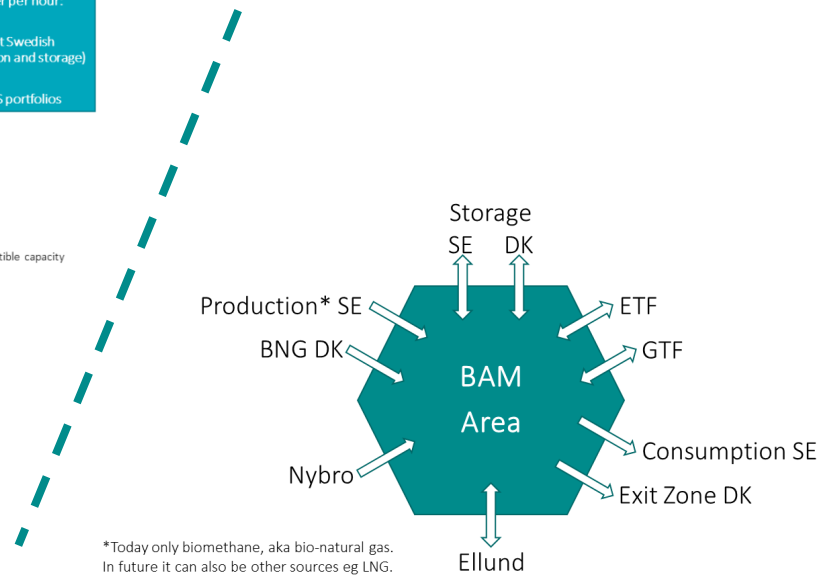
# EXAMPLE – CASE 6

## A SHIPPER/BA BRINGS GAS FROM ETF, GTF AND PRODUCTION SWEDEN TO CONSUMPTION SWEDEN.

| Balancing points | Allocation |
|---|---|
| Production SE | 5 |
| ETF Entry | 20 |
| GTF Entry | 30 |
| Consumption SE | 50 |
| Total balance | 5 |

| Capacity purchase points | Unit |
|---|---|
| Virtual Exit Zone | 45 |



# Questions

Contact the JBZ team at jbz@swedegas.se