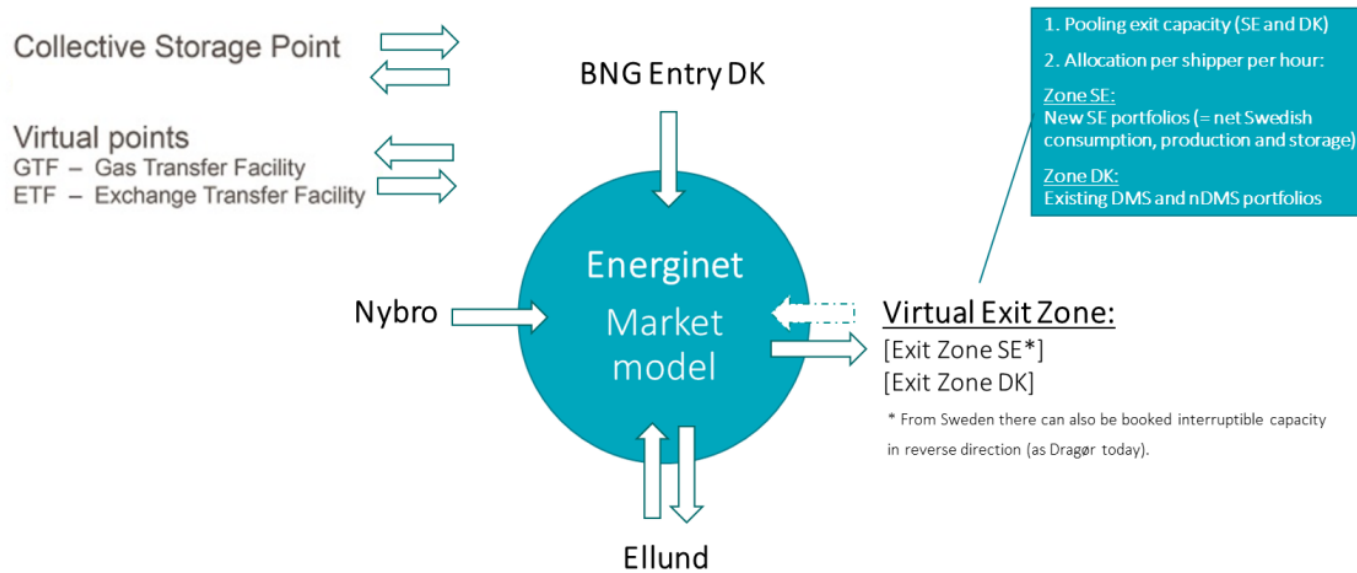


EXAMPLES OF HOW THE MODELS WORK

How to purchase capacity and how to balance

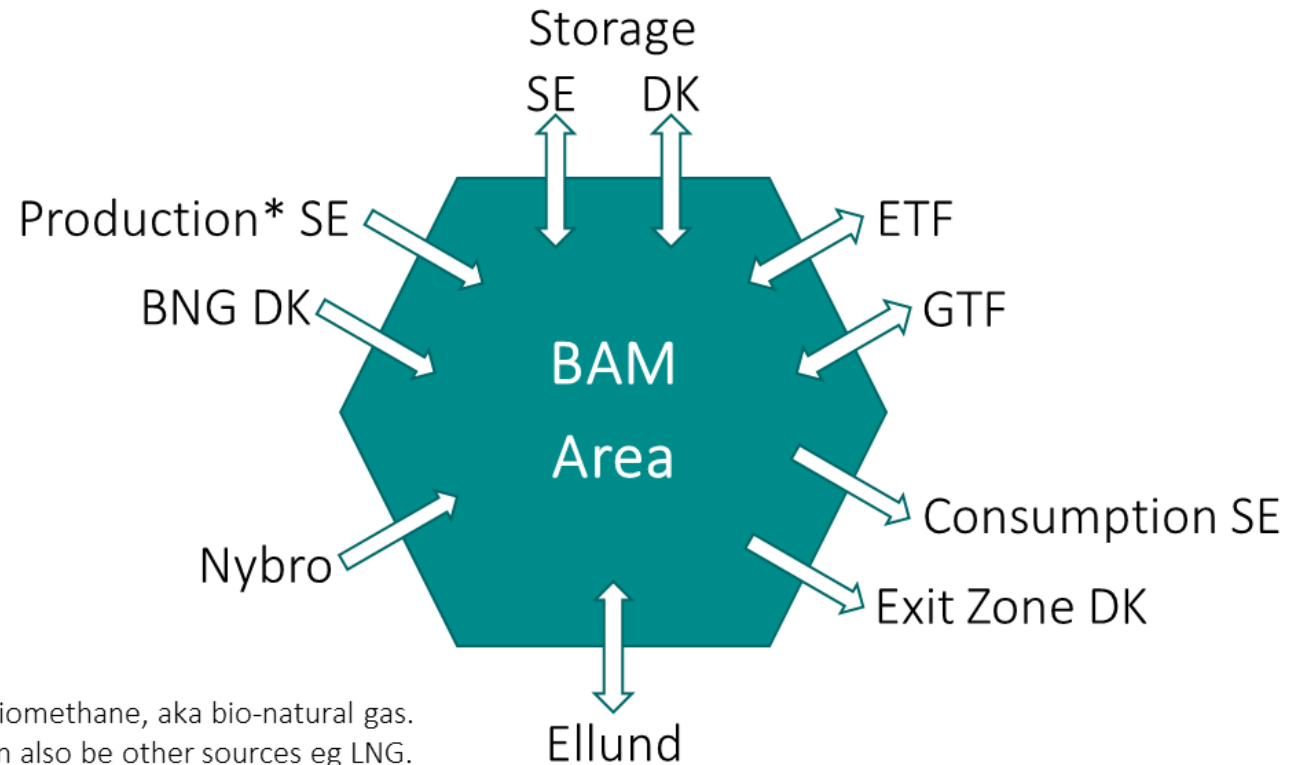
THE DANISH CAPACITY MODEL

- 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.



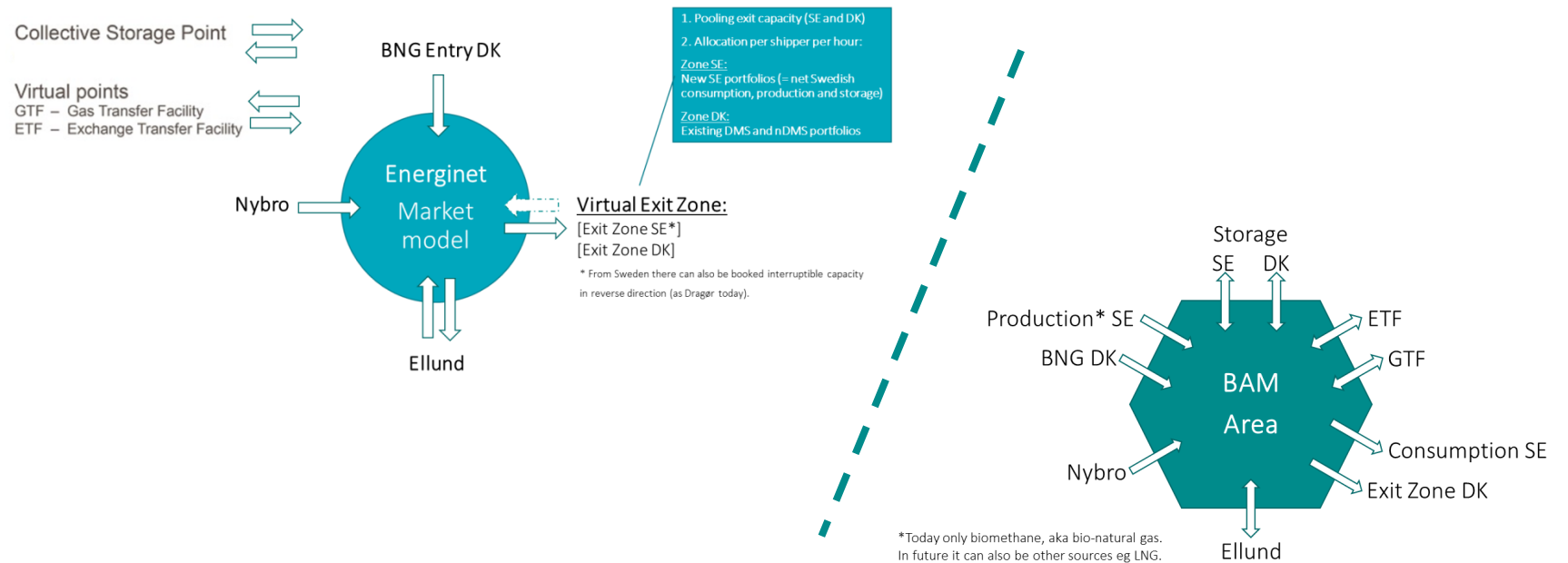
*Today only biomethane, aka bio-natural gas. In future it can also be other sources eg LNG.

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

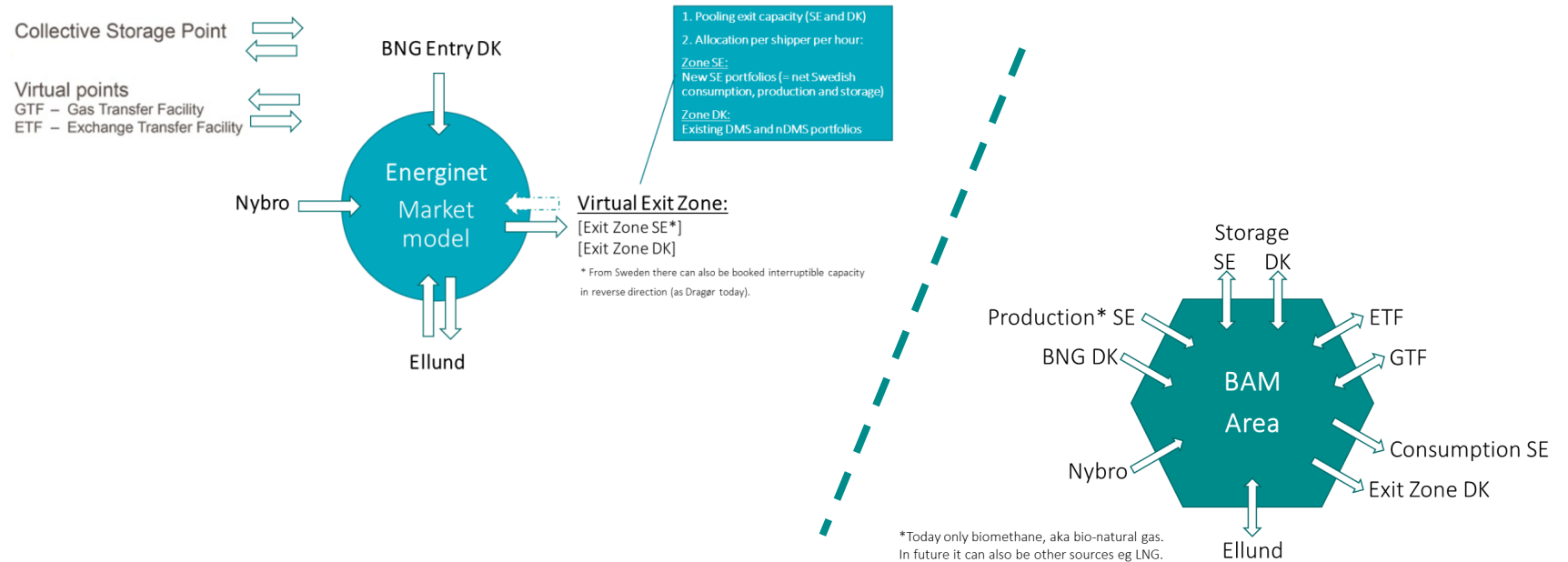


EXAMPLE – CASE 2

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	10
- Reverse direction	
Ellund Exit	6

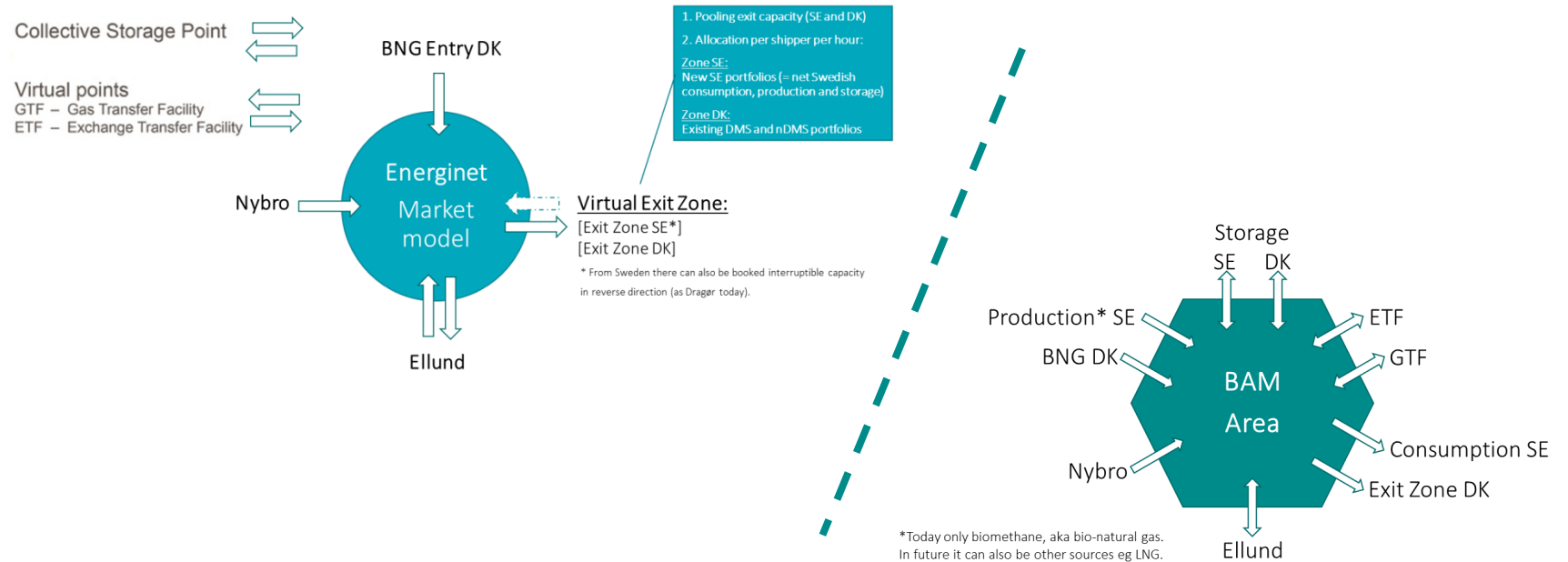


EXAMPLE – CASE 3

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



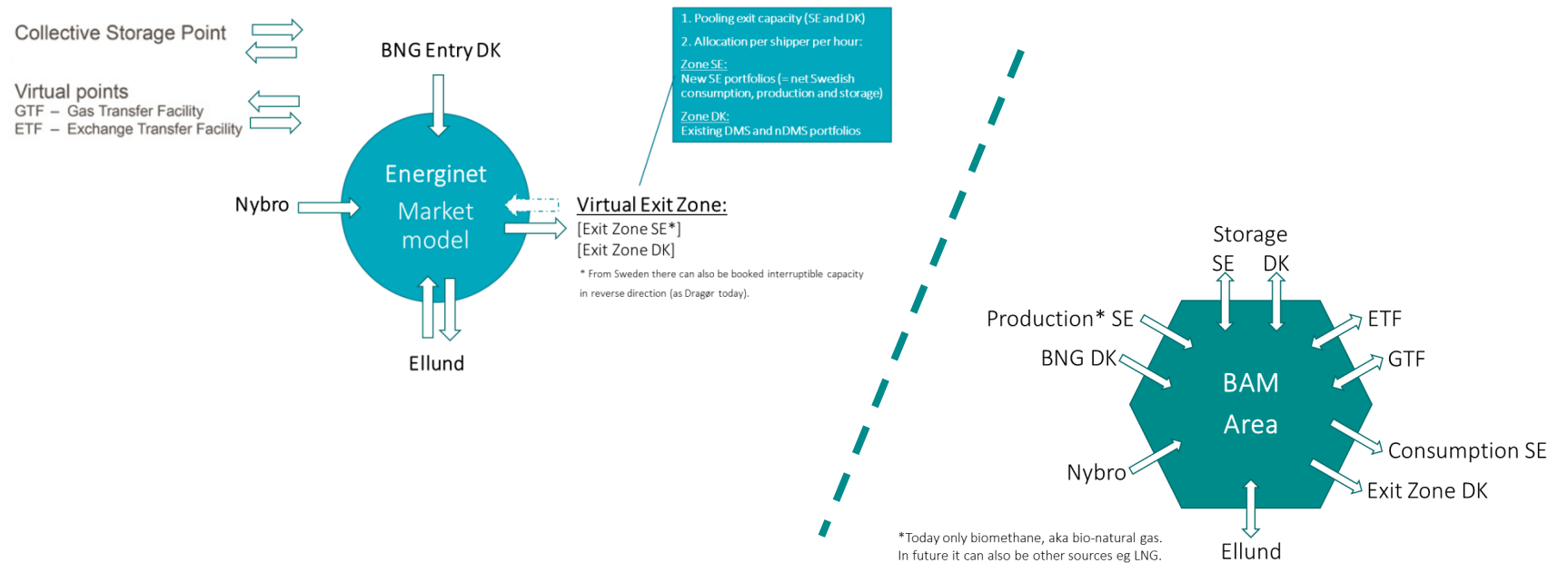
*Today only biomethane, aka bio-natural gas. In future it can also be other sources eg LNG.

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

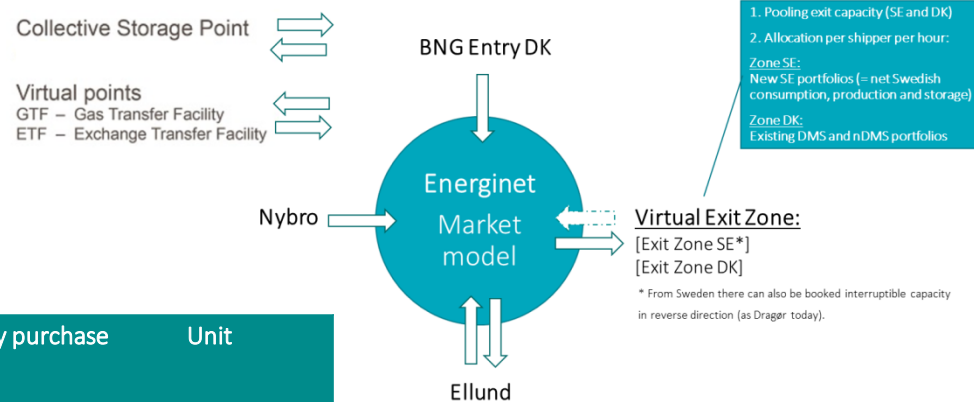


EXAMPLE – CASE 5

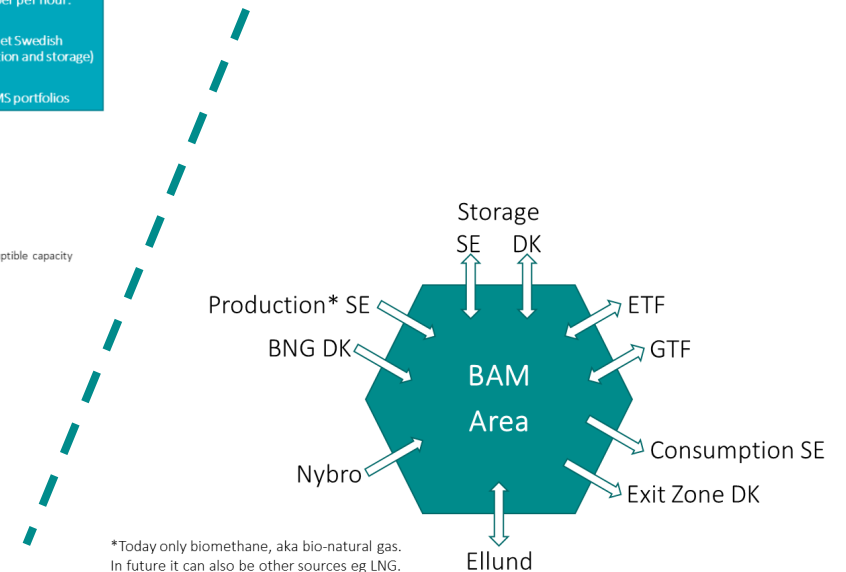
A SHIPPER BRINGS GAS FROM BNG DK, GTF, ETF TO CONSUMPTION IN SWEDEN AND DENMARK

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



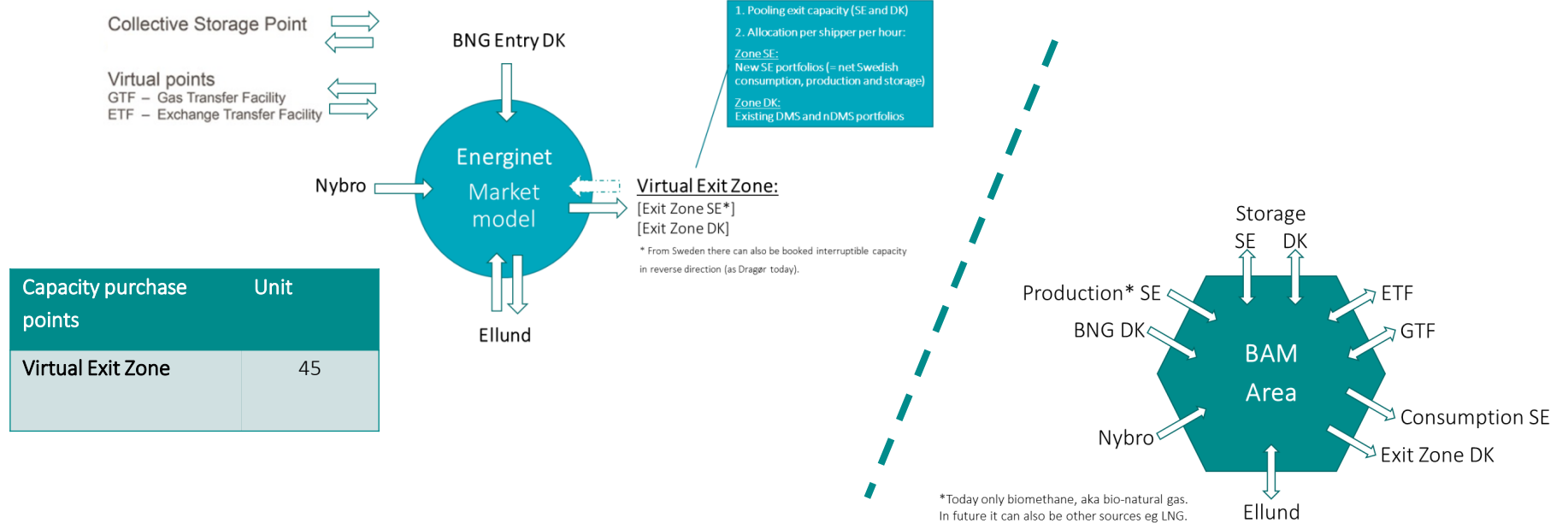
1. Pooling exit capacity (SE and DK)
2. Allocation per shipper per hour:
Zone SE:
New SE portfolios (= net Swedish consumption, production and storage)
Zone DK:
Existing DMS and nDMS portfolios



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



Questions



Contact the JBZ team at jbz@swedegas.se