

Interruptible Capacity GTS



Introduction

- **Interruptible products offered by GTS**
 - Forward direction => Interruptible, makes use of the unused technical capacity
 - Backhaul direction => Backhaul level 1, makes use of the physical gas flow
- Interruptible products will only be offered when firm is sold out
- One capacity (tranche) is determined per network point
- Interruptible products available on:
 - Interconnection points, only day-ahead
 - Sea pipelines (NGT, WGT and Nogat)
- Interruptible is offered for three different periods
 - Summer (May until September)
 - Shoulder (March, April, October and November)
 - Winter (December, January and February)
- Tranches are published in appendix 7 of the TSC

Assumptions

- Interruptible tranches are determined once a year (see examples on the next slides)
- Based on the assumption that shipper behaviour in the recent past represents shipper behaviour in the nearby future
- Interruptible tranches are based on the behaviour of the last two years
- The maximum chance for an interruption of the interruptible tranche is 15%
- After the determination of the interruptible tranches a correction is made for Oversubscription and buy back (OSBB)
 - The correction is based on an estimation for the day-ahead offered OSBB

Calculation

- Calculation interruptible products at GTS before NC TAR

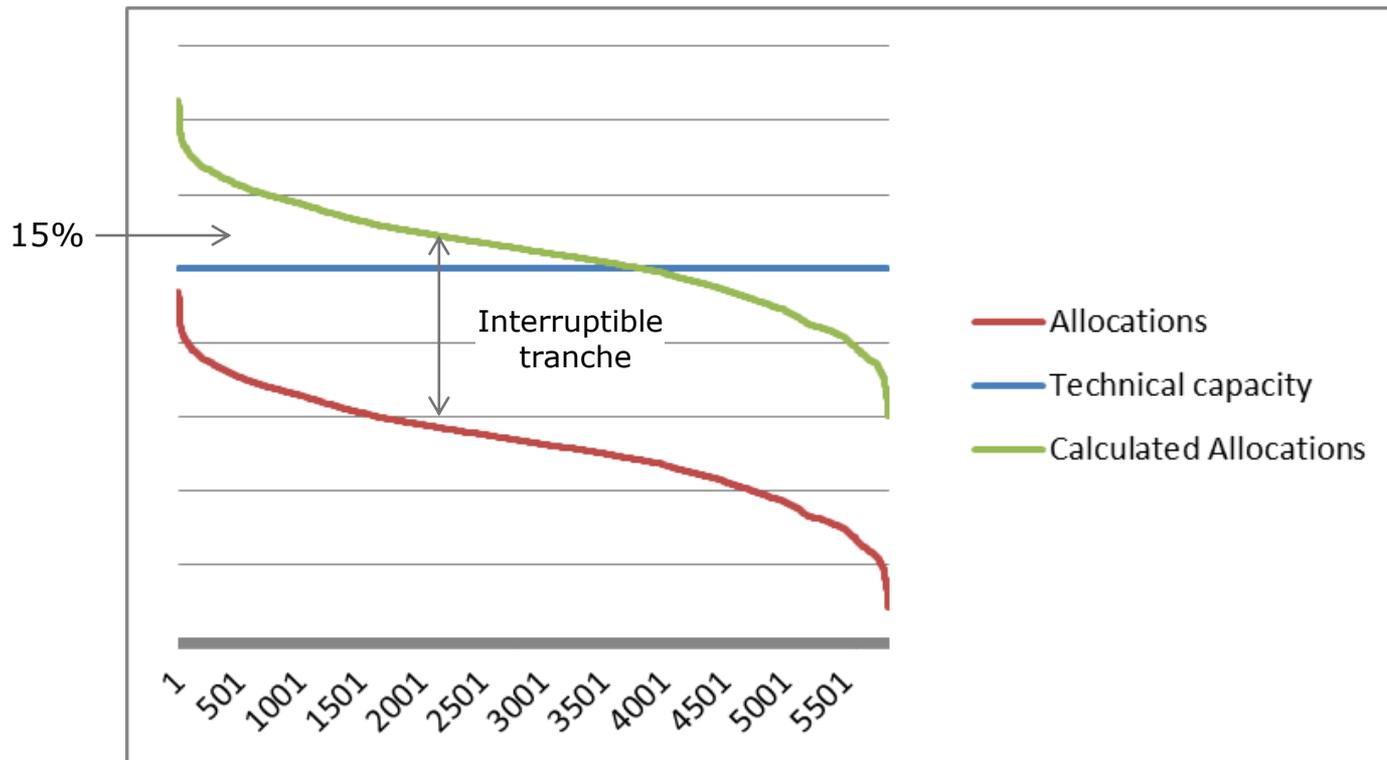
$$\text{Chance of interruption (15\%)} = \frac{\text{Interrupted volume in the period}}{\text{Number of hours in period} * \text{tranche size}}$$

- Calculation interruptible products in NC TAR

$$\text{Pro} = \frac{N \times D_{\text{int}}}{D} \times \frac{CAP_{\text{av, int}}}{CAP}$$

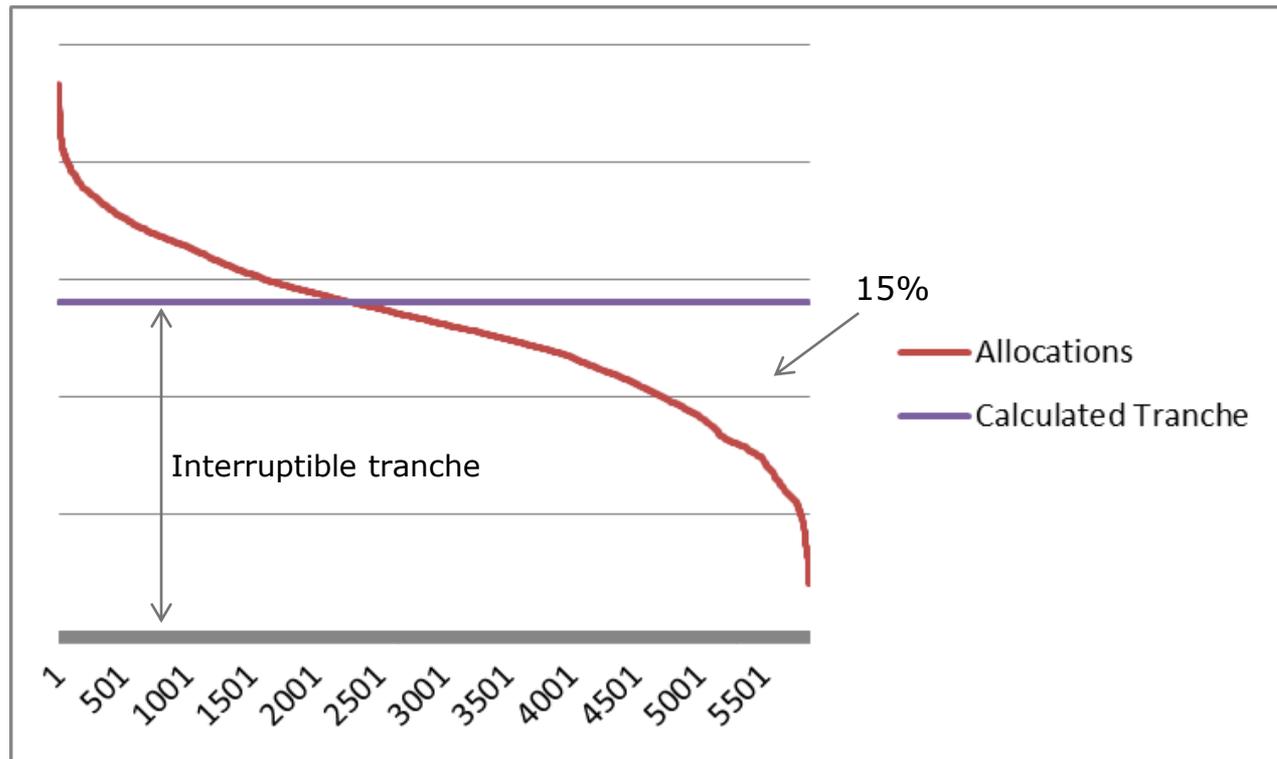
- Where:
 - Pro = chance of interruption, predefined by GTS as 15%
 - N = expected number of interruptions
 - D_{int} = average duration of interruptions
 - D = duration of standard capacity product
 - $CAP_{\text{av, int}}$ = expected average amount of interrupted capacity
 - CAP = total amount of interruptible capacity
- In the NC TAR method, the capacity is multiplied with a time which yields a volume, exactly as in the method which is already implemented by GTS

Example: Forward Interruptible



- Area between green and blue line is 15% of the area between the green and red line

Example: Backhaul Level 1



- Area between the red and purple line is 15% of the area below the purple line