



## Mathematical Algorithms for Calculation of Firm and Non-Firm ATC

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### Scheduling Horizon:

- **Firm ATC** =  $TTC - TRM - CBM - \text{Committed Firm Reservations (capacity)} - \text{Committed Grandfathered Agreements (capacity)} - DST - SDT - \text{Loss Returns (capacity)}$
- **Non-Firm ATC** =  $TTC - \text{Committed Firm Normal Tags (energy)} - \text{Committed Firm Dynamic Tags (capacity)} - \text{Committed Firm Capacity Tags (capacity)} - \text{Committed Non-Firm Reservations (capacity)} + \text{Committed Firm Counter-schedule Normal Tags (energy)}$

### Operating Horizon:

- **Firm ATC** =  $TTC - TRM - CBM - \text{Committed Firm Reservations (capacity)} - \text{Committed Grandfathered Agreements (capacity)} - DST - SDT - \text{Loss Returns (capacity)}$
- **Non-Firm ATC** =  $TTC - \text{Committed Firm Normal Tags (energy)} - \text{Committed Firm Dynamic Tags (capacity)} - \text{Committed Firm Capacity Tags (capacity)} - \text{Firm Estimates (energy)} - \text{Committed Non-Firm Reservations (capacity)}$

### Planning Horizon:

- **Firm ATC** =  $TTC - TRM - CBM - \text{Forecast Load} - \text{Load Growth} - \text{Load Error} - \text{Committed Firm Reservations (capacity)} - \text{Committed Grandfathered Agreements (capacity)} - DST - SDT - \text{Assumed Rollover Rights (capacity)} - \text{Loss Returns (capacity)}$
- **Non-Firm ATC** =  $TTC - \text{Committed Firm Reservations (capacity)} - \text{Committed Grandfathered Agreements (capacity)} - \text{Committed Non-Firm Reservations (capacity)} - DST - SDT - \text{Loss Returns (capacity)}$