FlexShift NL

Unlock growth under TDTR/'ATR85' + Flex-e

• Why Now

- > **~11,900 companies** are queued for new/stronger connections; DSOs also report **8,400+** feed-in requests.

  (netbeheernederland.nl)

- ACM's **time-duration transmission right (TDTR)** guarantees access **≥85%** of the year (7,446 h) with up to **15%** curtailment (1,314 h). Curtailment windows are announced day-ahead; TenneT unlocked **~9.1 GW** off-peak capacity using TDTR. (Officiële Bekendmakingen, NOS)
- **Time-dependent grid fees** at TenneT are live (since 1-Jan-2025), increasing the value of shifting load off-peak. (netbeheernederland.nl)
- Limited Time **Flex-e** subsidy is open **1 Apr–15 Oct 2025** for scans, feasibility, and implementation; **≥100 kW** sites, **35%** capex support for measures (min €25k, max €300k). Congestion-management contract with your grid operator is required for the "measures" track. (RVO.nl)

• What We Offer

- **Controller + SaaS** that ingests TDTR day-ahead limits (and TBTR/"Blokstroom" time blocks where available), then automatically shifts flexible loads: refrigeration stages, EV charging, compressors, HVAC, and batteries.

- **Compliance engine**: enforces curtailment windows, logs evidence for DSO/ACM audits, and safeguards product/comfort constraints.

• Customer Value

- **Transport-fee cuts** : TDTR vs. firm rights ~ **up to ~50%** in NBNL example; **up to ~65%** when combined with time-dependent tariffs (case-dependent).

(netbeheernederland.nl, Reuters)

- **Faster go-live** while in the queue; operate at full capacity **most of the year** without breaching TDTR. (Officiële Bekendmakingen)

• Where It Fits First

- Cold Storage EV Charging HVAC-Heavy Sites Light Manufacturing in congestion/voltage-sensitive areas.

• How It Works (Technical)

1. Connect controller to meters/PLC/BMS and controllable assets.
2. Pull TDTR (and TBTR where live) constraints + price/fee signals; generate site-specific schedules.
3. Execute shifts (15-min granularity), with hard safety bounds.

4 Produce M&V and compliance logs for DSO + Flex-e reporting.

• Pilot Plan (8–10 weeks)

- **2–4 sites**, 0.5–5 MW flexible per site; baselining → deployment → M&V.
- Success metrics: % flexible load shifted, TDTR compliance hours, transport-fee reduction, temperature/throughput kept within bounds.

• Commercials (Indicative)

- One-off controller & integration (Flex-e covers **35%** eligible costs) + monthly SaaS. Positive ROI expected if ≥20–30% of site load is shiftable during restricted hours; final economics depend on DSO/TenneT tariff split. (RVO.nl)

• Regulatory Clarity

- **TDTR ('ATR85')**: ≥85% guaranteed availability; curtailment not fixed "daily 15%"—it varies, announced day-ahead. (Officiële Bekendmakingen, NOS)
- **TBTR ('Blokstroom')** at regional DSOs: applications opened, rollout/timelines vary by DSO (check local status). (Energy Storage NL, Fieldfisher)

• Risks & Mitigations

- Non-compliance risk → automated cutbacks + alerts + audit logs.
- Process sensitivity (e.g., cold chain) → guardrails and staged shedding.
- TBTR locality/timeline uncertainty → default to TDTR integration first. (Fieldfisher)

• Next Steps

1. Confirm site eligibility (≥100 kW, congestion area) and TDTR/TBTR status with your DSO. (RVO.nl)
2. Run Flex-e scan/feasibility (paperwork + data pull). (RVO.nl)
3. File **Flex-e "measures"** + DSO congestion-management contract; order hardware. (RVO.nl)
4. Deploy controller, go live under TDTR; start M&V and savings tracking. (Officiële Bekendmakingen)

Source basis: *ACM code decision creating TDTR (≥85%/15%); DSO queue data; TenneT/NOS reports on 9.1 GW off-peak capacity and day-ahead notice; TenneT time-dependent tariffs; RVO Flex-e rules; NBNL example savings and sector roll-out notes. (Officiële Bekendmakingen, netbeheernederland.nl, NOS, RVO.nl)*