2024q1 - status

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NORDIC E-INFRASTRUCTURE COLLABORATION

Resource changes

- New UiO disk still pending development
  - First attempt at 100Gbit/s dCache pool nodes
  - The blocksize used by dCache for network and storage traffic needs adjustment (too many locks in network code), changes in progress
    - We've seen similar issues with the Slovenian pools, but opted for splitting them into more VMs instead of working to get single node performance up

- ATLAS tape getting better
  - Mainly taking data to UiO and HPC2N right now
  - The UiO and HPC2N tape investments should last a couple of pledge cycles

- New cluster purchased at HPC2N
  - Still in commissioning, so not affecting 2024Q1

Noteworthy events and issues

- Weeks-long problems with copying data to and from our storage after dCache 9.2 upgrade
  - For (as of yet undiagnosed) reasons, dCache stopped sending performance markers on the control channel to the dCache door while doing third-party transfers over https
  - Our haproxy setup in front of dCache had a 50s timeout on inactive sessions where no traffic happened
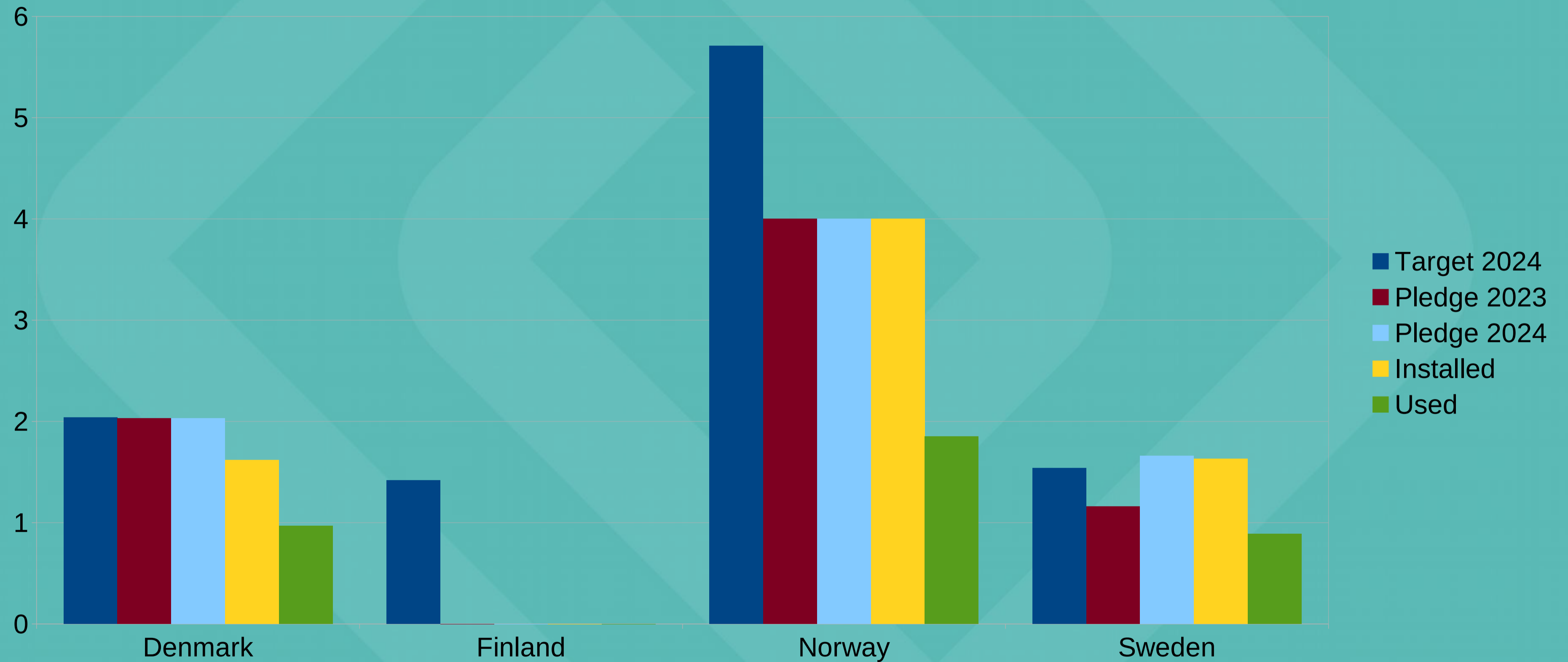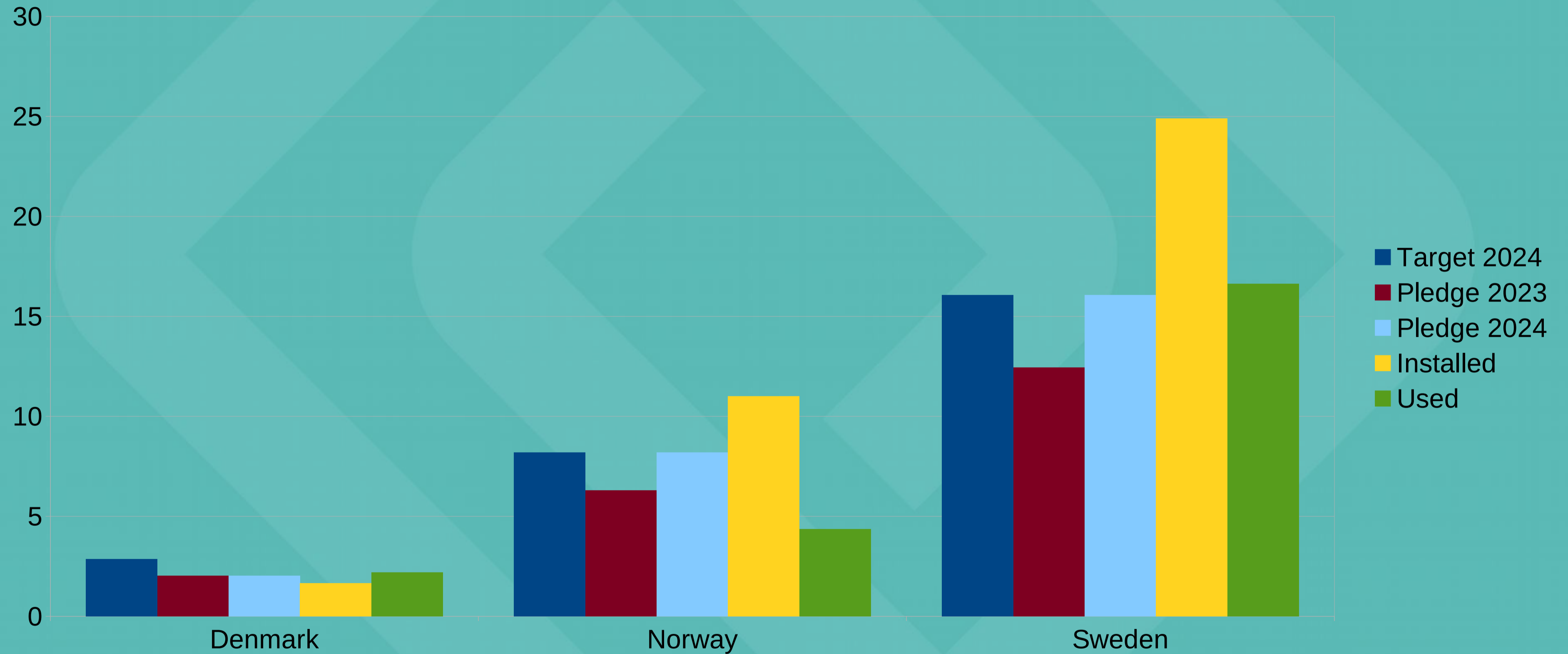 - Finally diagnosed and worked around last week

DC24

- Participation during DC24 for ATLAS traffic didn't work out due to the previous issue

- ATLAS did a site-by-site export test the week after and we performed well above target rates

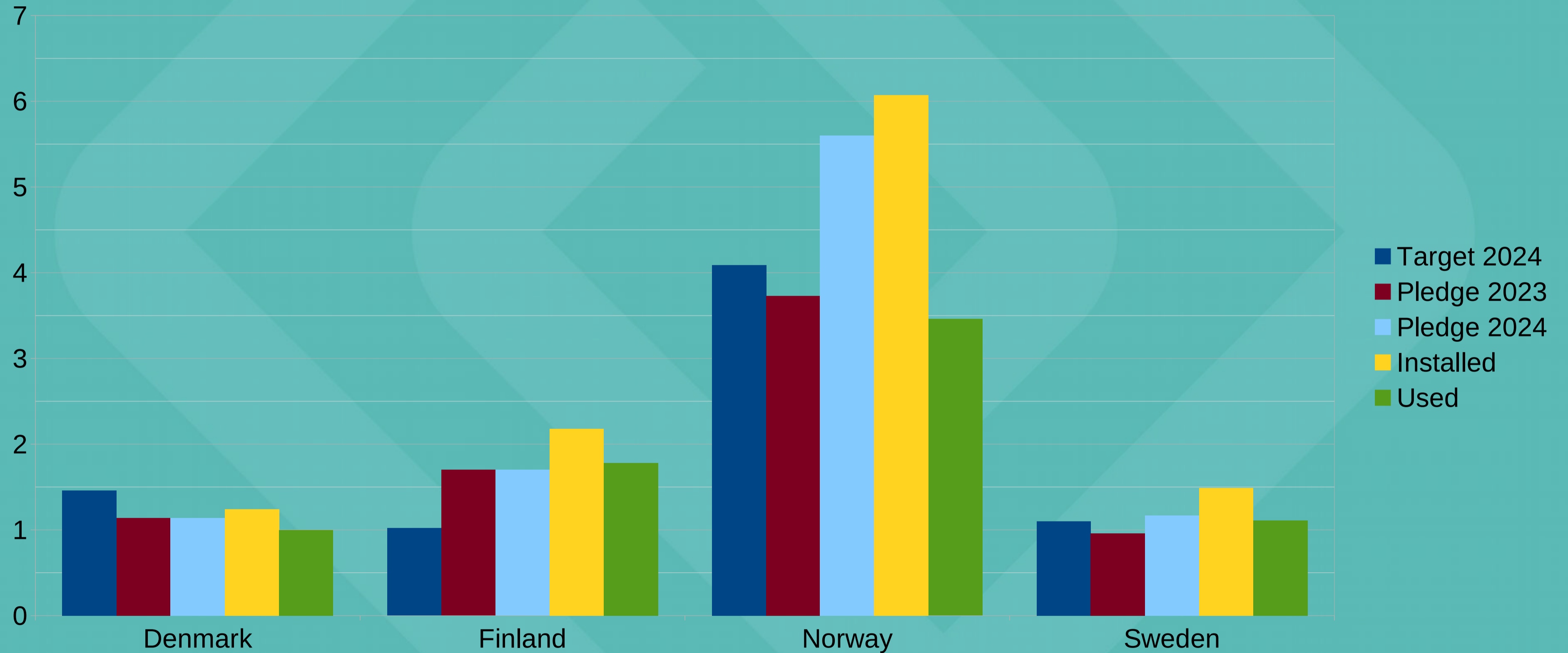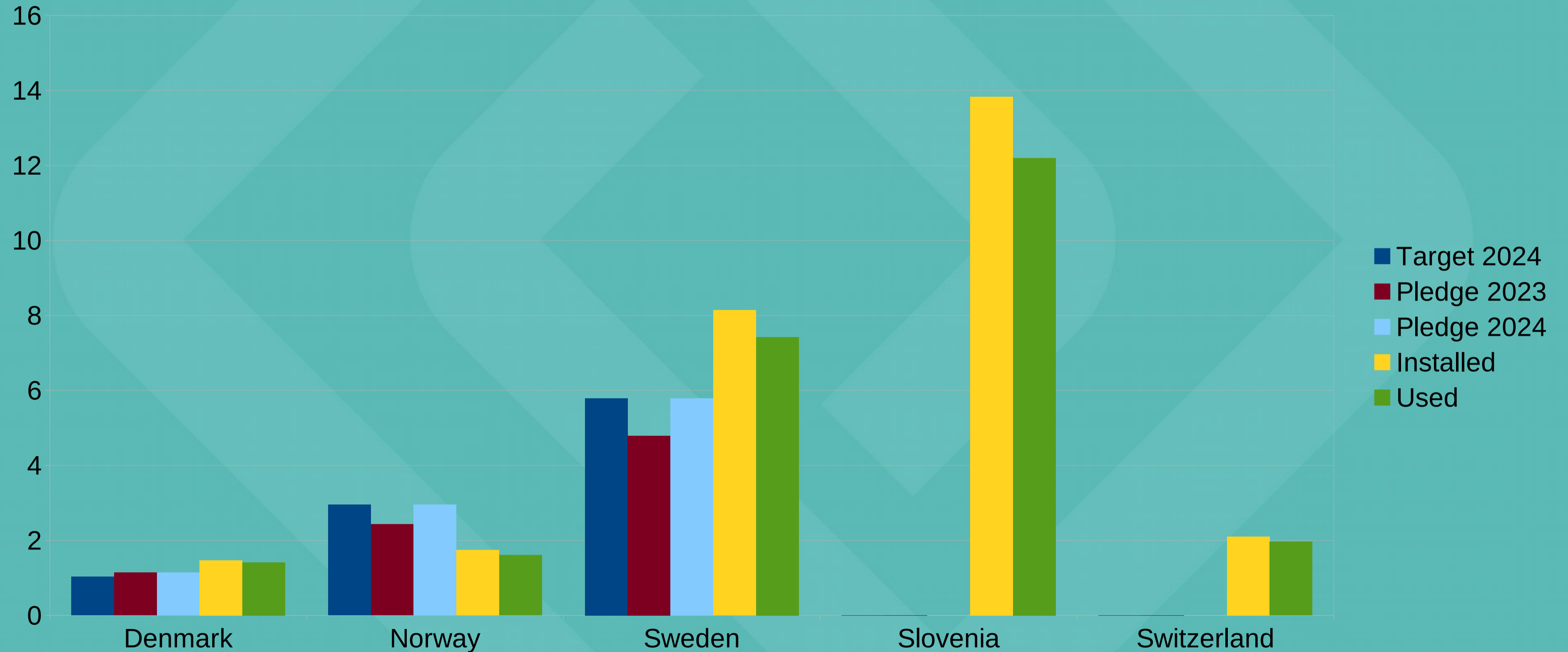- ALICE's T0-T1 data export worked as expected

ALICE Tape

SPEAKER | Mattias Wadenstein <maswan@ndgf.org>

ATLAS Tape

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ALICE Disk

ATLAS Disk

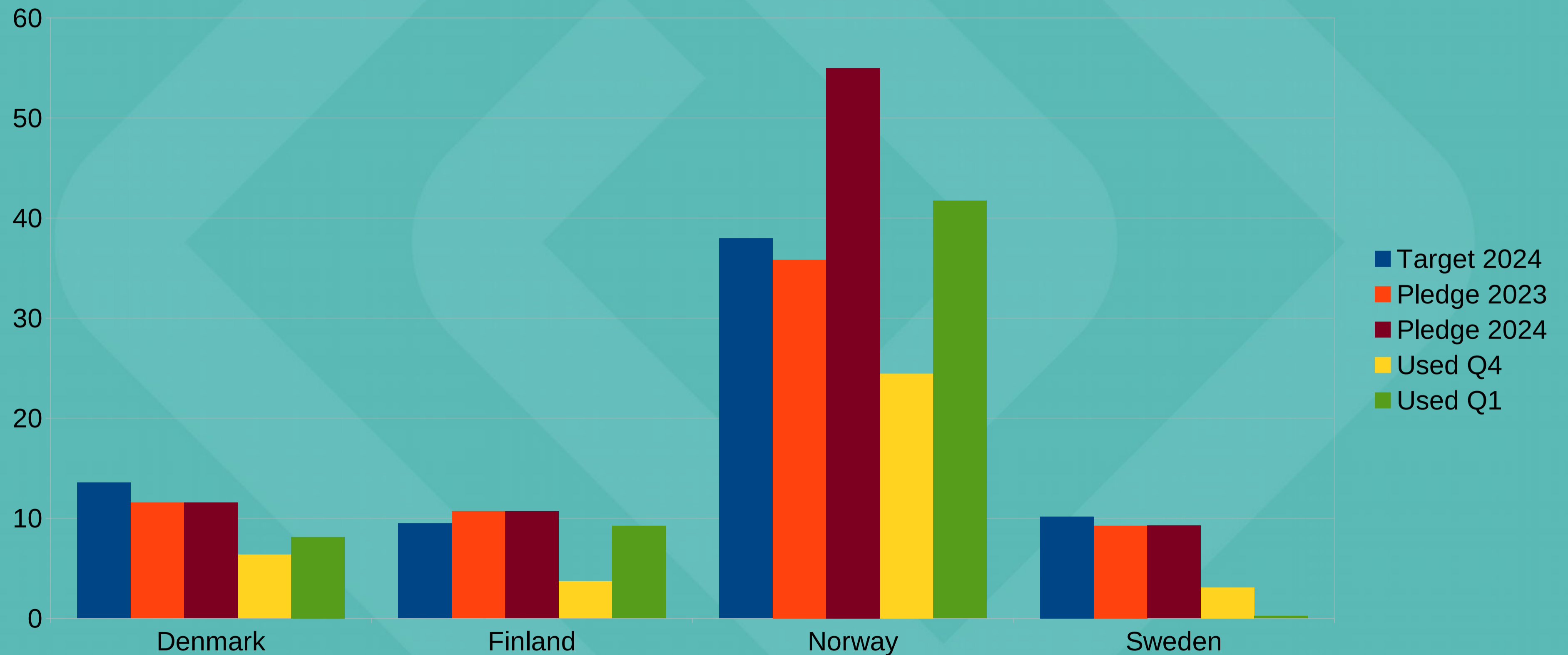SPEAKER | Mattias Wadenstein <maswan@ndgf.org>
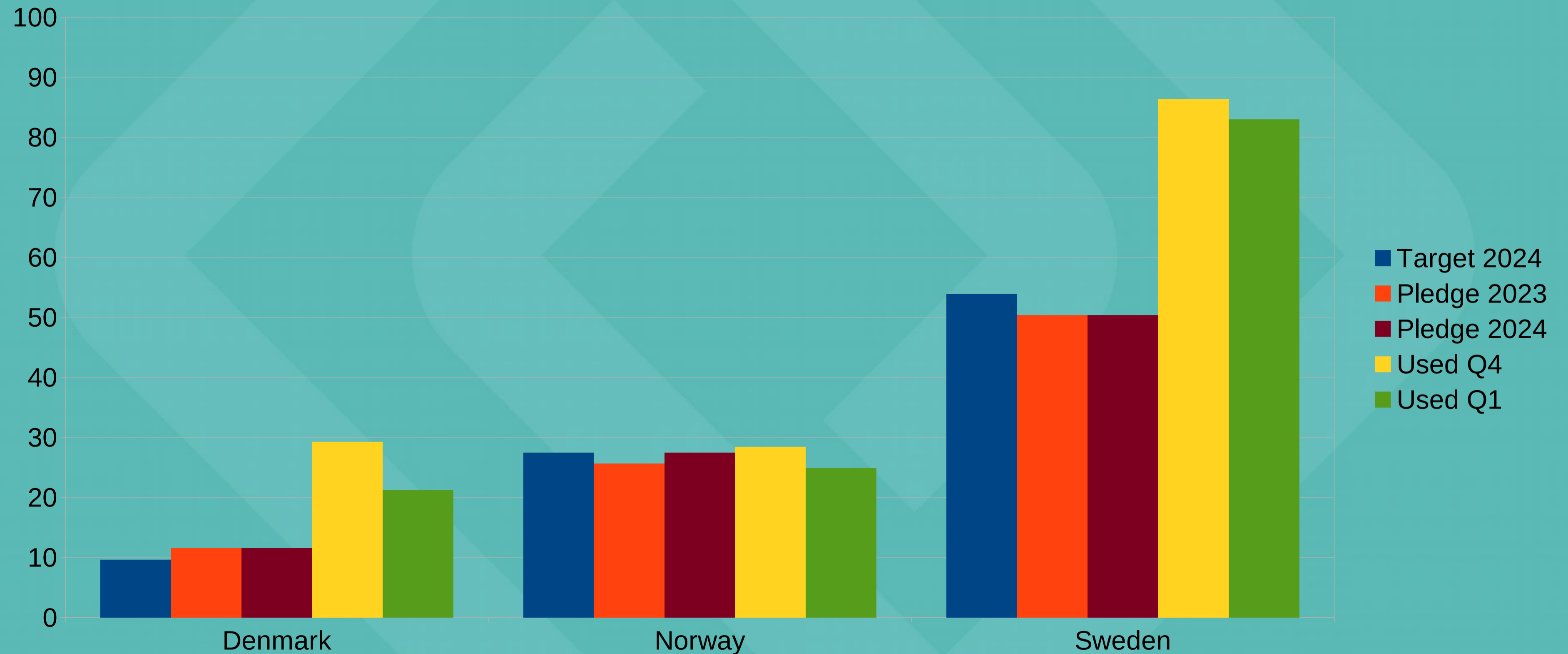
CPU Usage Comments

- ALICE not using all of our compute due to lack of jobs
  - Improved as of 2024Q1
  - Sweden has some kind of compatibility issue that breaks jobs, but neither NSC nor ALICE has figured out why – revisit after cluster upgrade

- HPC2N still running on "a rack extra" of old Kebnekaise nodes
  - Delivering significantly over pledges to ATLAS

ALICE CPU

ATLAS CPU

Questions?

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