2024q2 - status

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2024-08-22
NLCG Committee meeting 3/2024
Oslo, Norway

neic

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
    - Storage vendor driver makes it even more worse at UiO
  - Testing proposed software fix in the next weeks

- New cluster in production at HPC2N
  - Some weird data staging problems leading to lots of empty cores
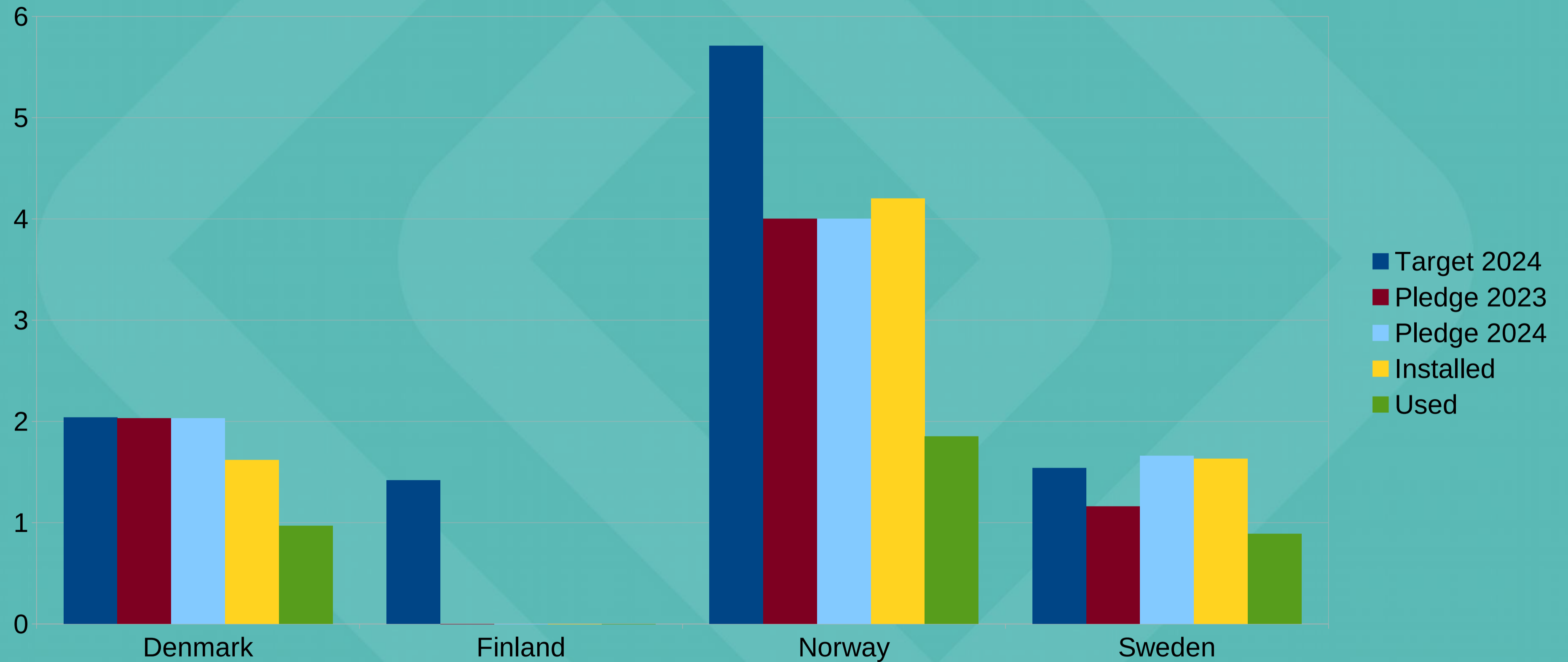 - But usage still above pledges
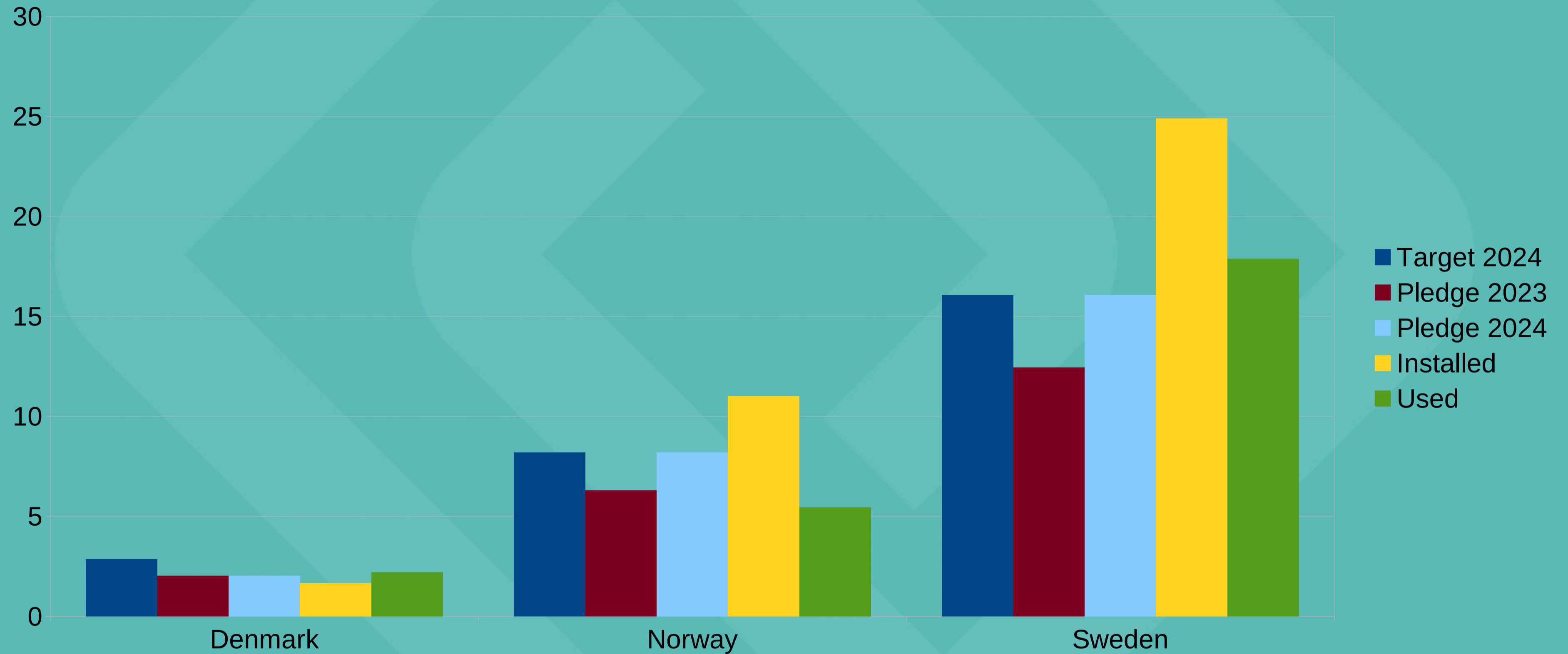
Noteworthy events and issues

- A cephfs issue caused some corrupted files
  - Mostly cached copies of tape files
  - But dCache will only mark them as bad during a full checksum scan, which takes a loong time on large pools
  - Leading to long-standing staging errors as seen from ATLAS
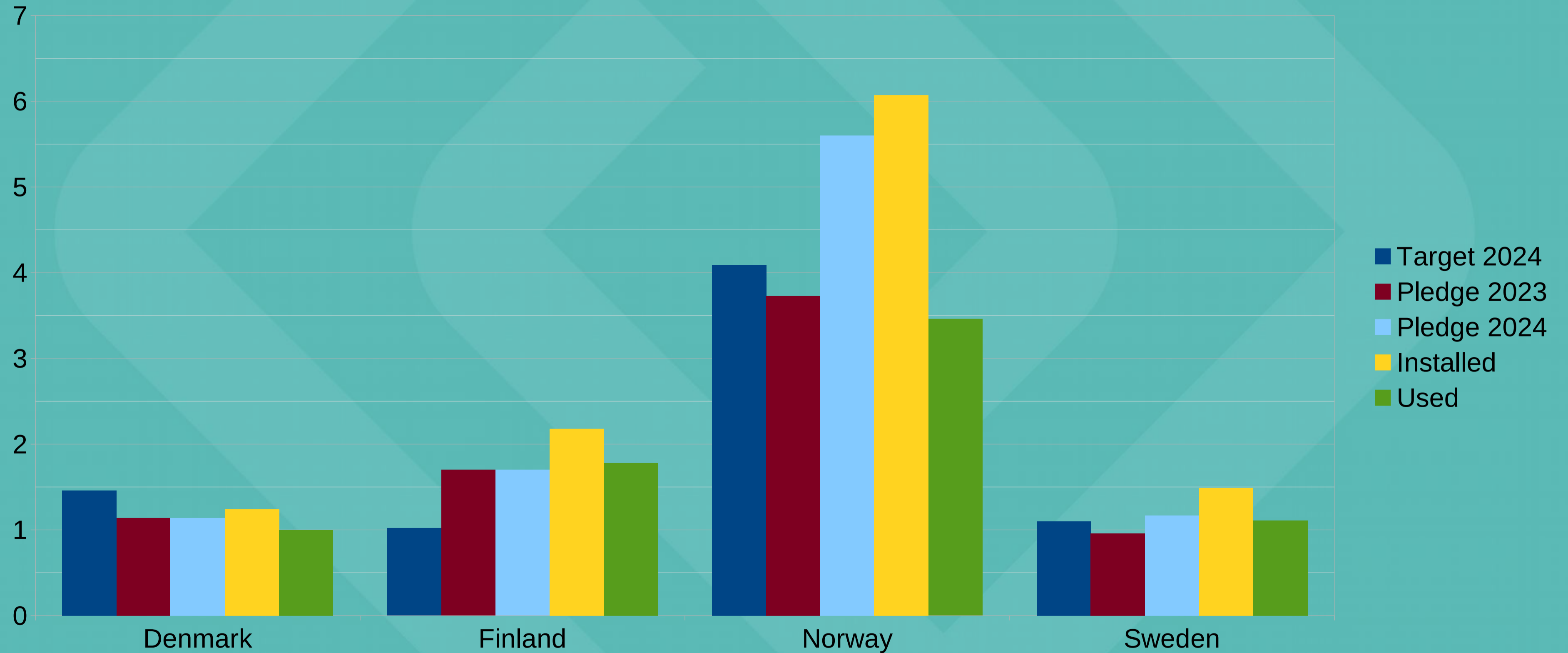 - We will split the pools up into smaller units to recover faster next time
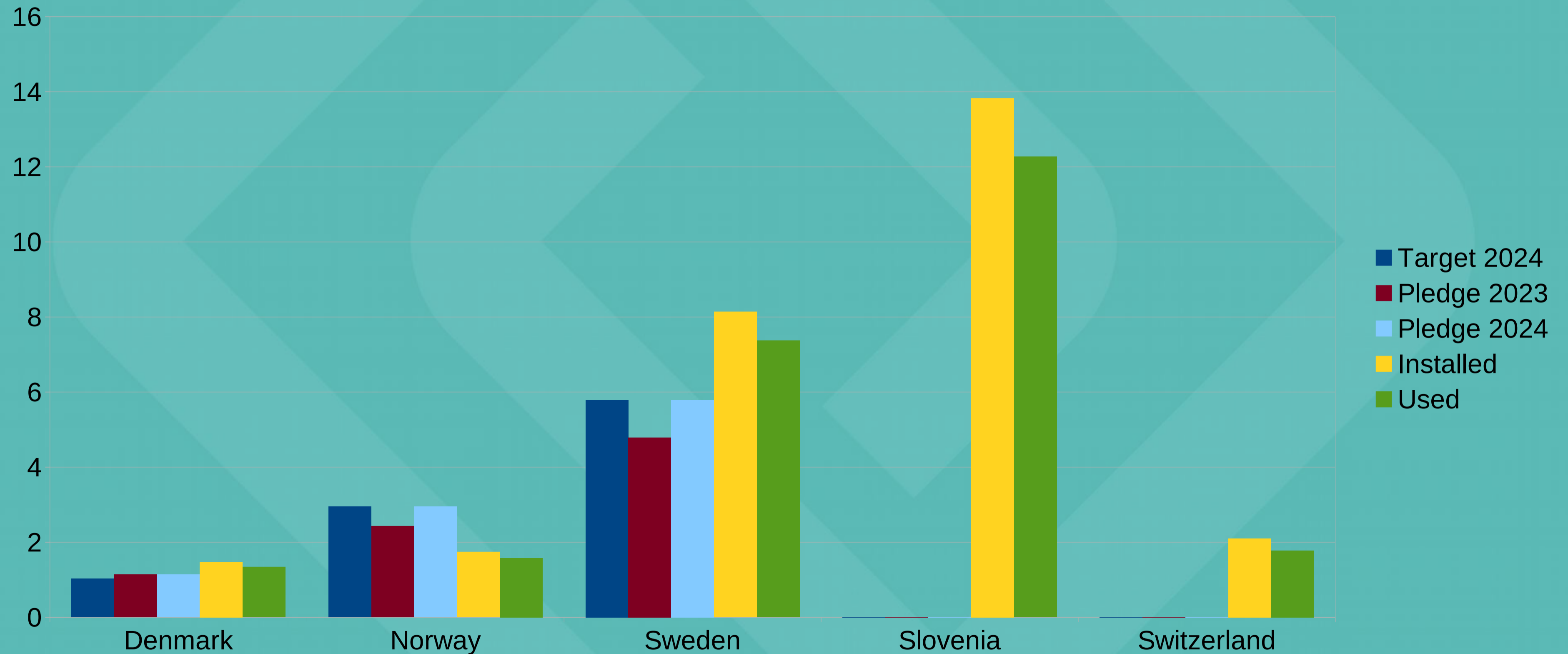
ALICE Tape

ATLAS Tape

SPEAKER | Mattias Wadenstein <maswan@ndgf.org>

ALICE Disk

Legend:
- Target 2024 (dark blue)
- Pledge 2023 (dark red)
- Pledge 2024 (light blue)
- Installed (yellow)
- Used (green)

Countries: Denmark, Finland, Norway, Sweden

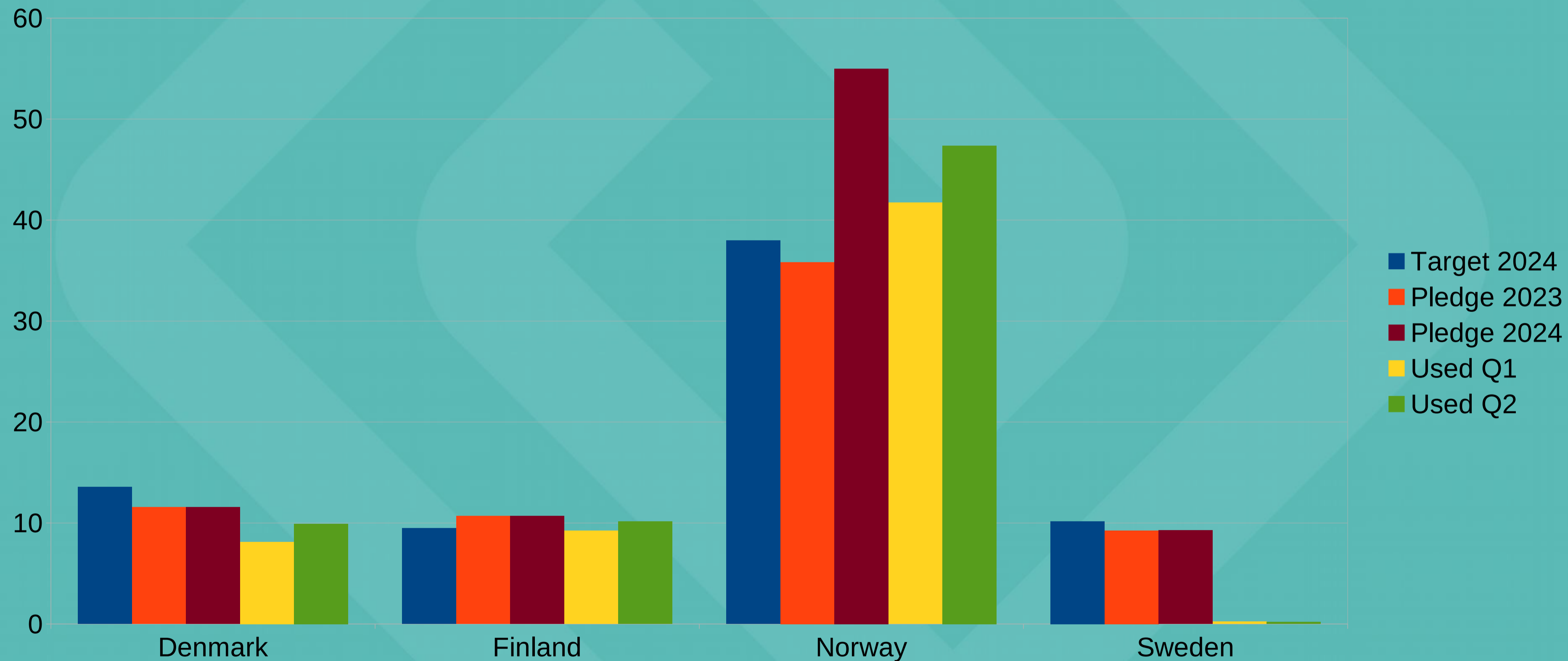SPEAKER | Mattias Wadenstein <maswan@ndgf.org>

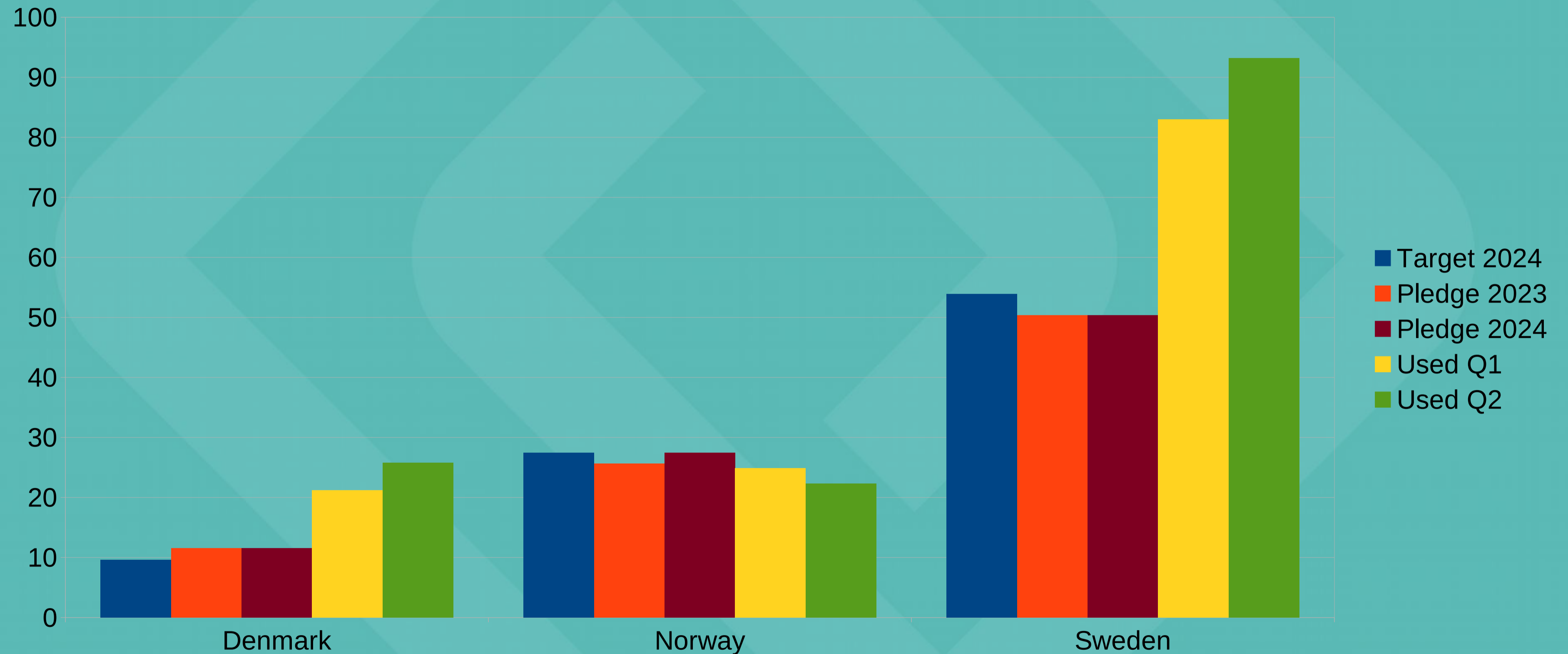# ATLAS Disk

CPU Usage Comments

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

- HPC2N switched to new cluster Aigert during Q2
  - Significantly more CPU than pledges, but it'll have to last for some years to come

ALICE CPU

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ATLAS CPU

Questions?