



Centre for environmental design of renewable energy - CEDREN



NATURHISTORISK MUSEUM
UNIVERSITETET I OSLO



Nye prosjekter og veien videre



SafePass

Safe and efficient two-way migration for salmonids and European eel past hydropower structures

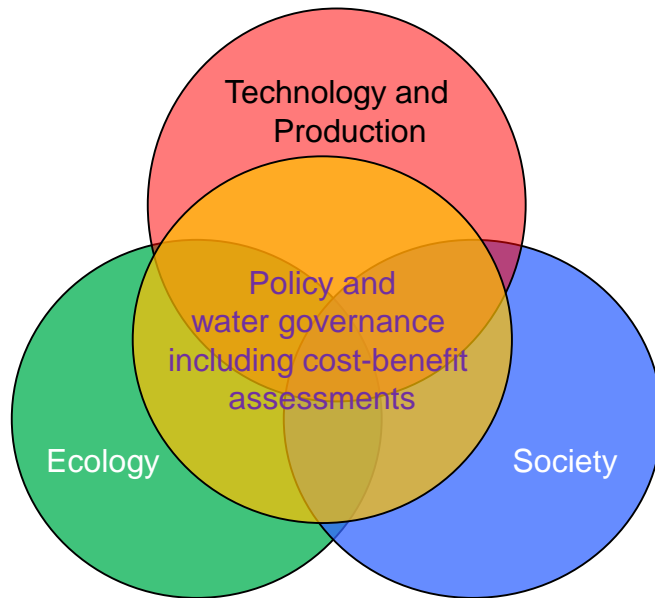


- Knowledge compilation
- Solutions for downstream migration
- From salmon to inland fishways
- User-friendly handbook

- Salmon, trout, grayling, eel
- Basic research and applied case studies
- International collaboration

Seminar 20-22 mai

Sustainable governance of river basins with Hydropower production - SusWater

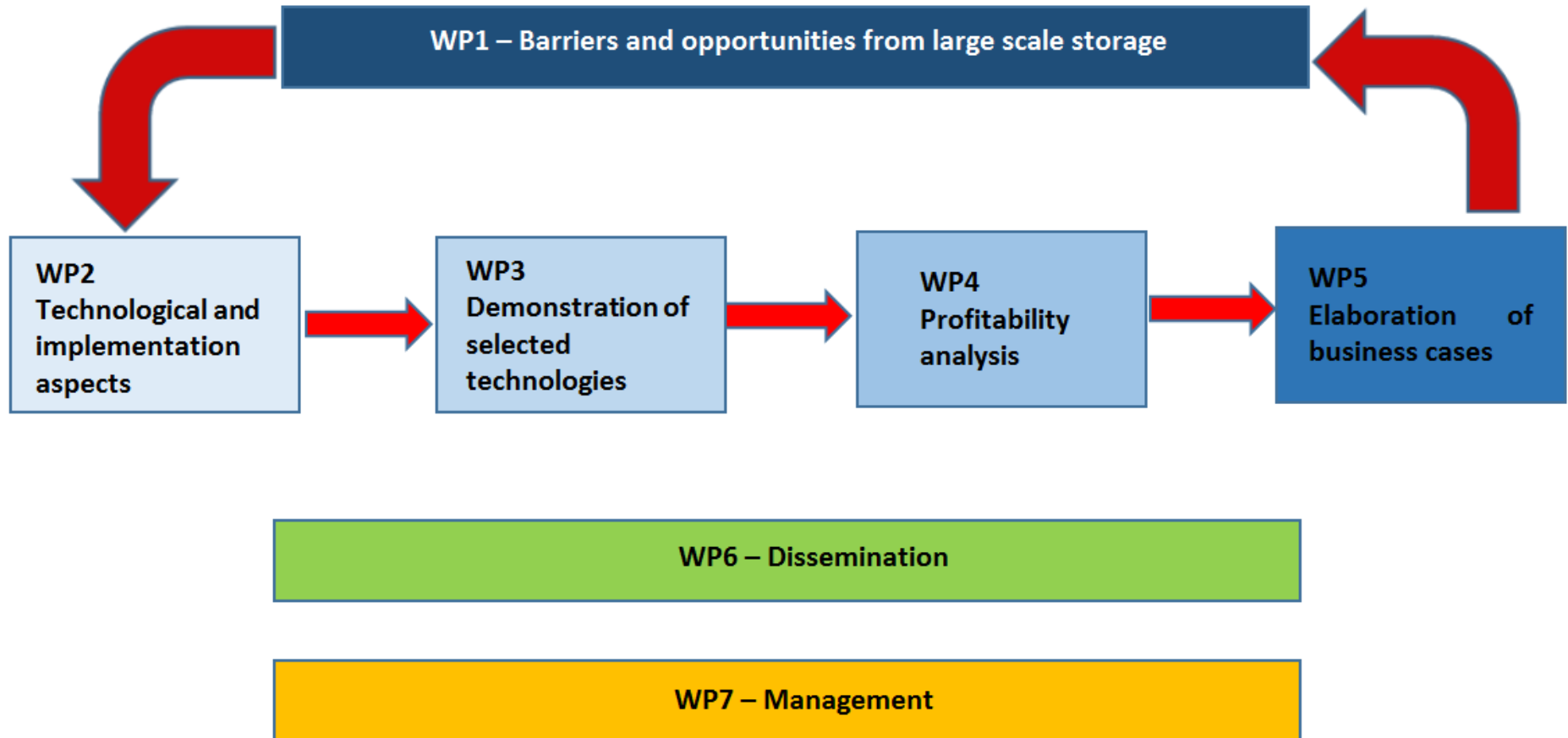


Background:

- Implementation of The Water Framework Directive
- Re-licensing of hydropower
- Refurbishing and upgrading hydropower

BigStore

- Horizon2020: LCE9 Large scale energy storage
Retrofitting hydro reservoirs, seawater pumped storage, liquid air, hybrid systems (wind, solar, flywheel, pumped storage)





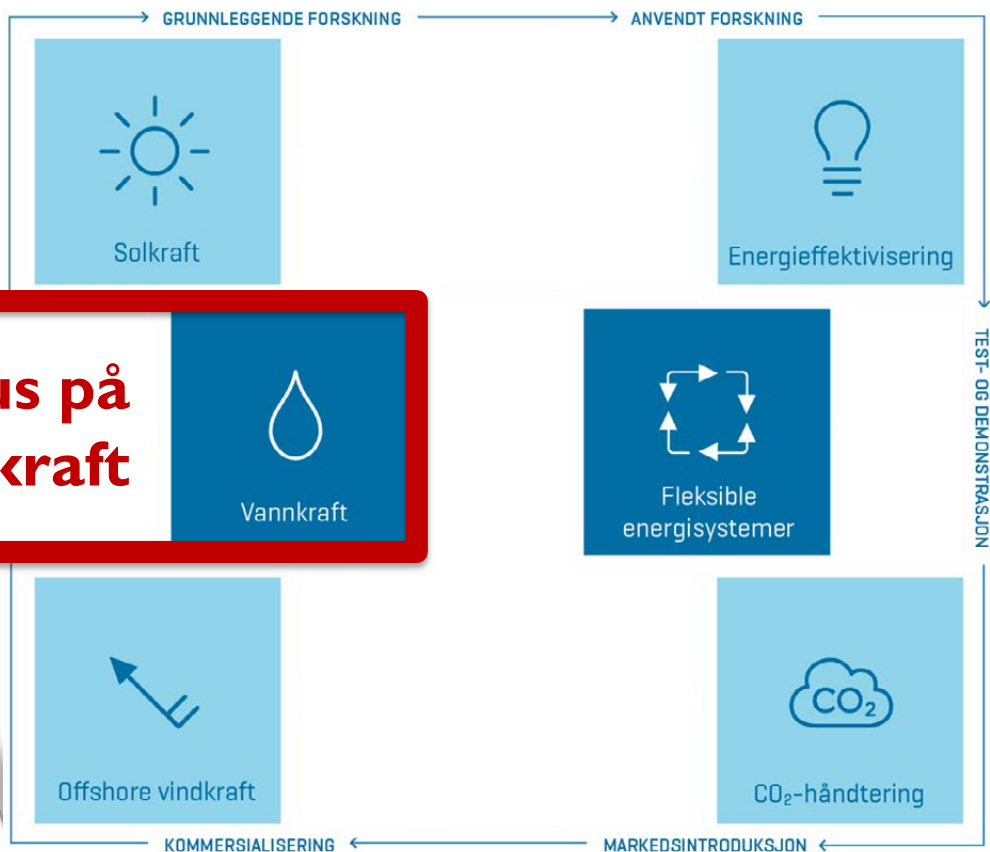
- Dagens aktivitet innen forskning, utvikling og demonstrasjon er for lav sett opp mot behovene fremover.



Fokus på vannkraft

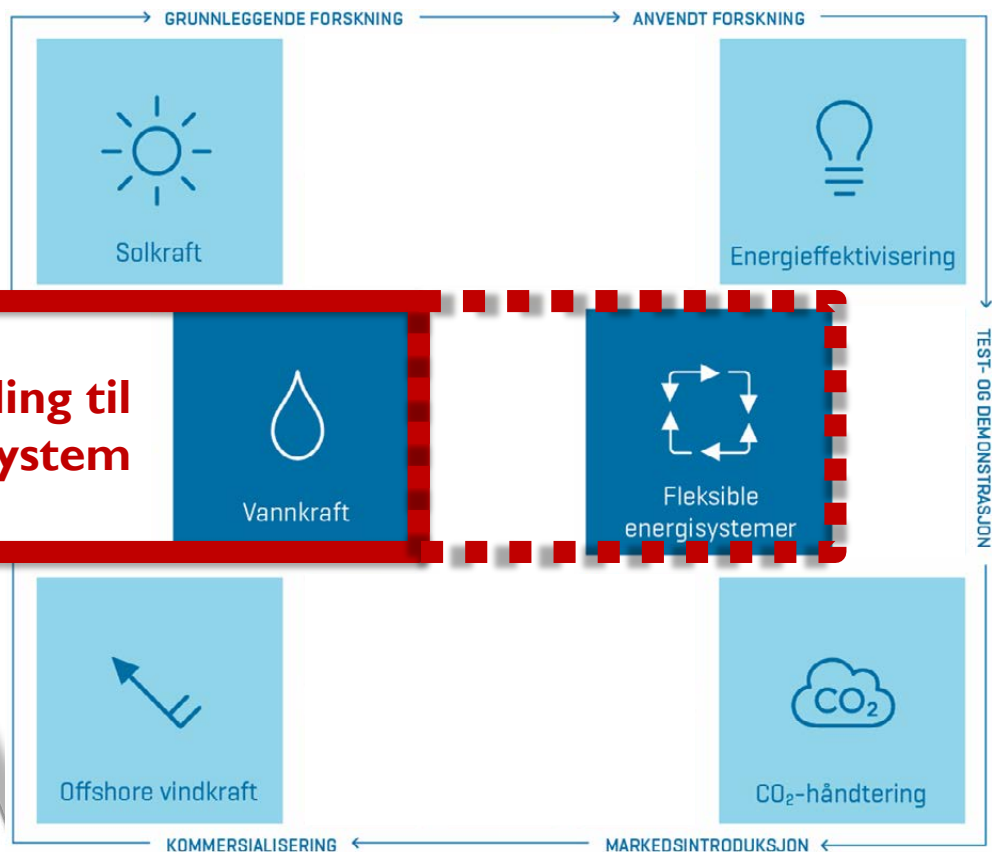
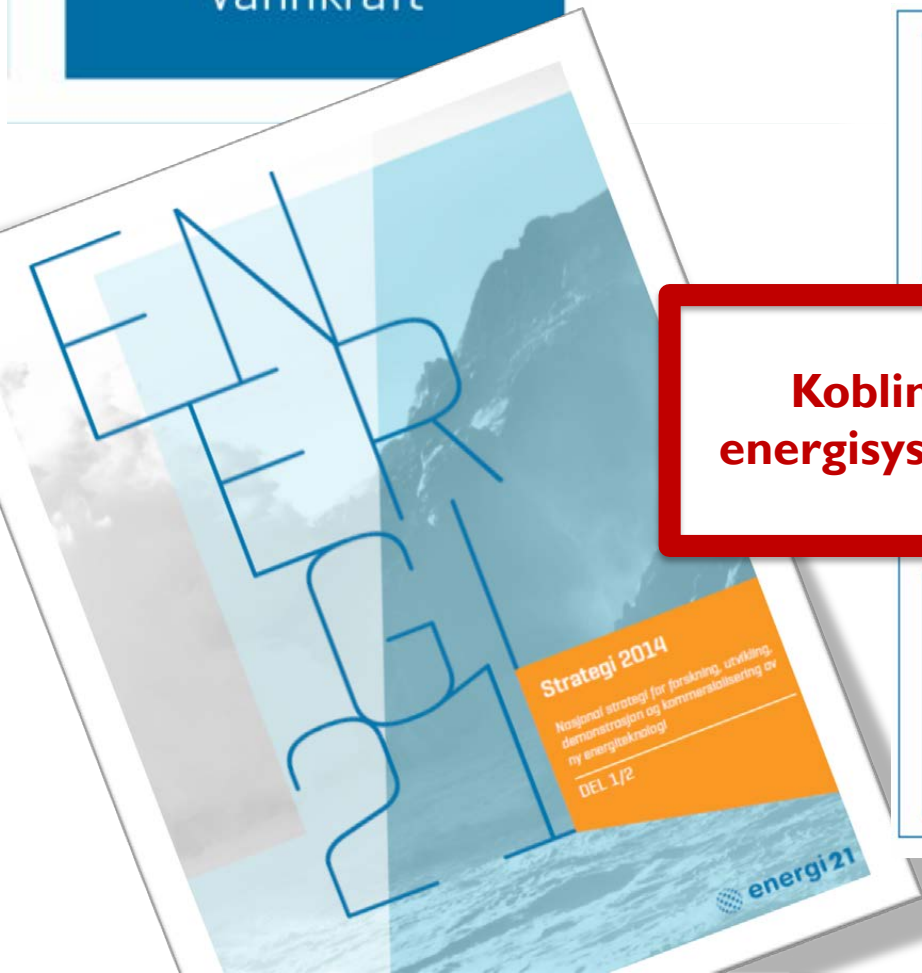


Vannkraft





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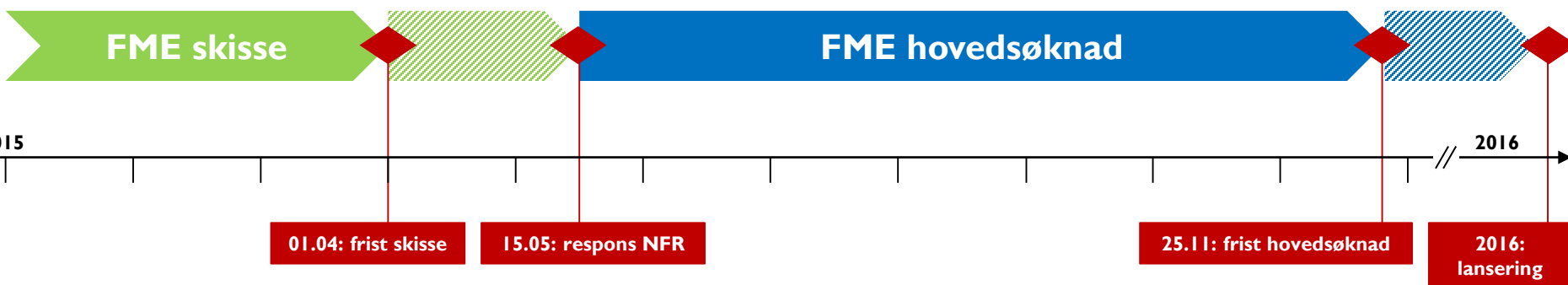


Utlysning på nye FME-senter med frist 25. nov. 2015

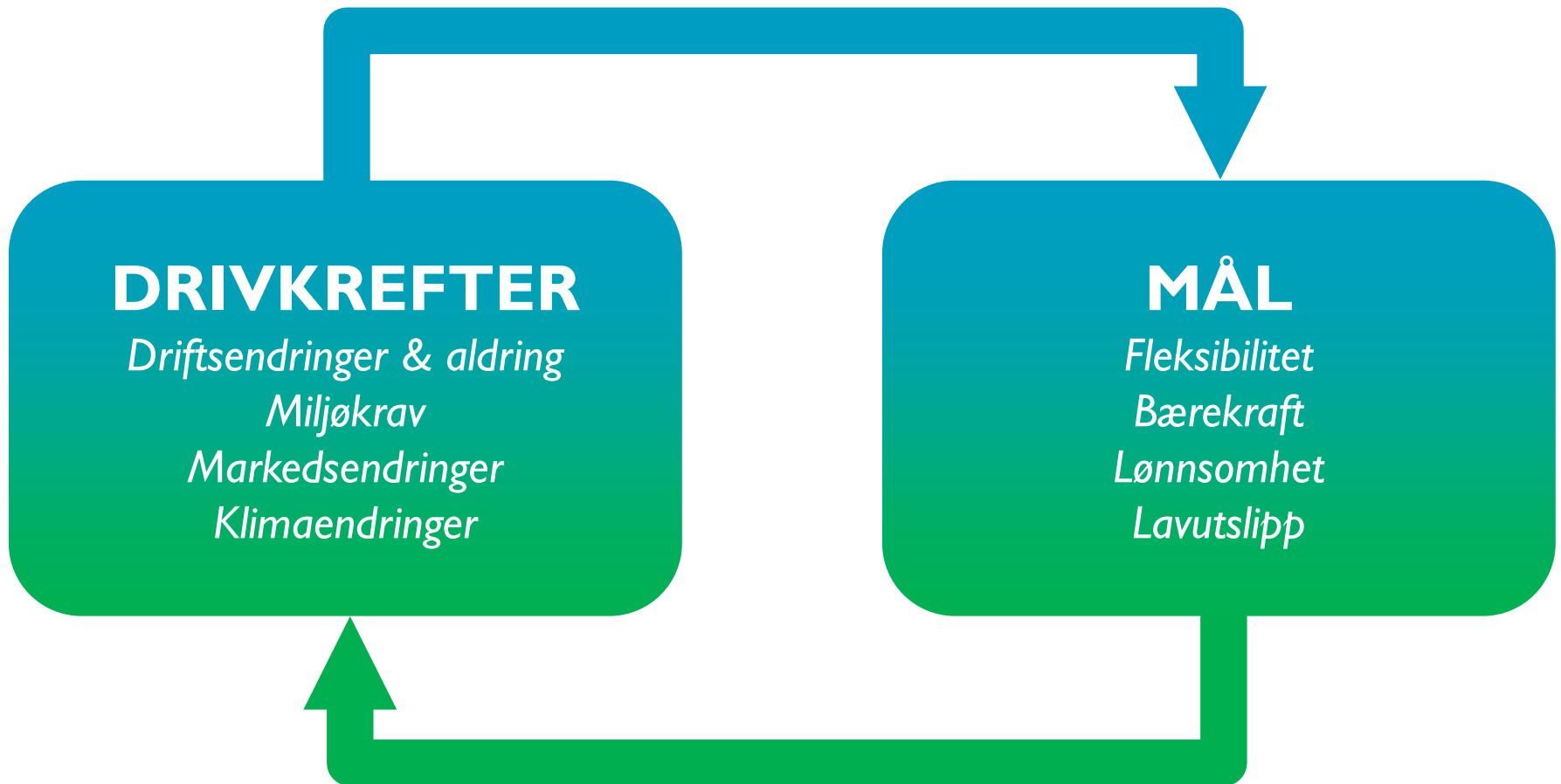
FME VANNKRAFT



FME framdrift 2015-16



DRIVKREFTER & MÅL



FAGOMRÅDER

FLEKSIBILITET & BÆREKRAFT

TEKNOLOGI

SAMFUNN

MILJØ

VERDISKAPING



TEMATISKE FOKUSOMRÅDER

FLEKSIBILITET & BÆREKRAFT

1. Miljødesign i regulerte i vassdrag

2. Fornyelse, oppgradering, utvidelse, optimalisering

3. Vannkraftens rolle i et fremtidig energisystem

4. Vannkraftsystemets tilpasninger til klimaendringer

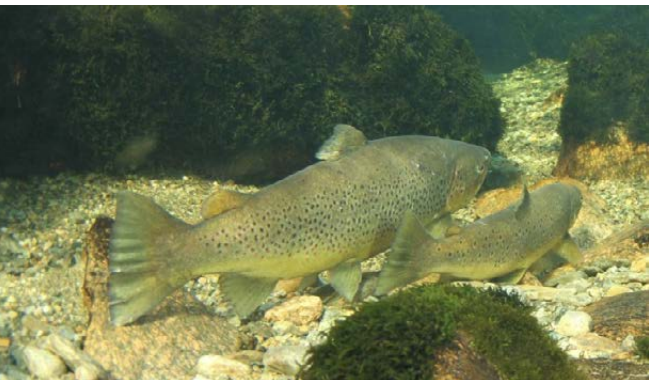
TEKNOLOGI

MILJØ

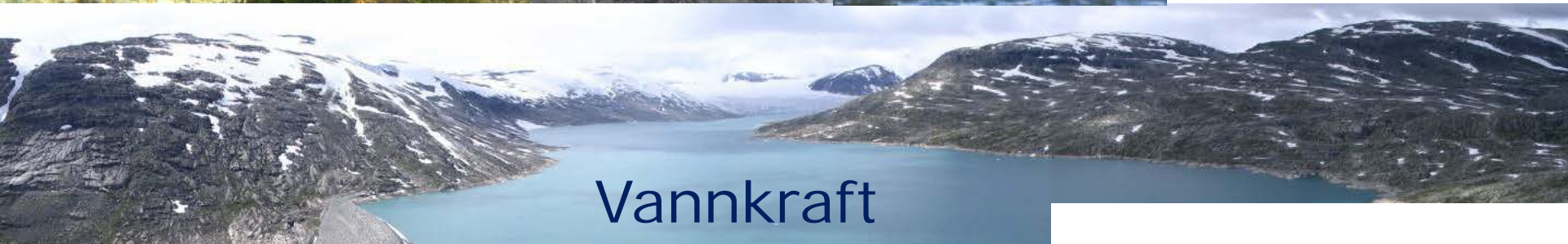
SAMFUNN

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