

Vattenkraft, reglernytta och flexibilitet

Kent Pettersson

Norsälvens vattenråd, Gräsmark 2024-05-13



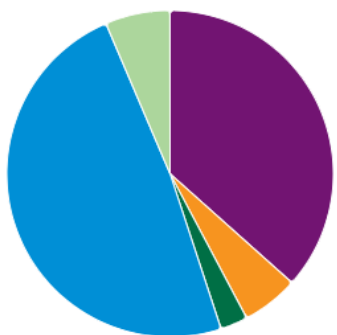
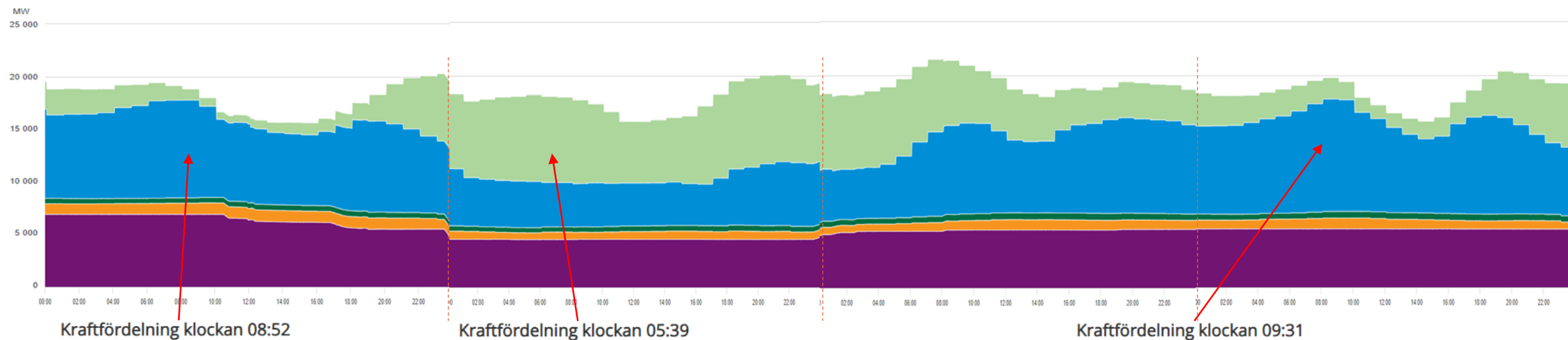
Join the
change

fortum

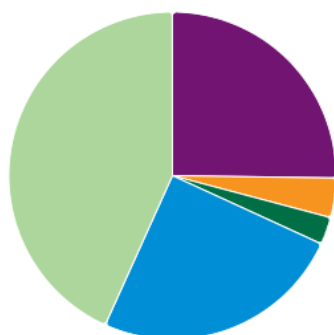
SVK Kontrollrummet

<https://www.svk.se/om-kraftsystemet/kontrollrummet/>

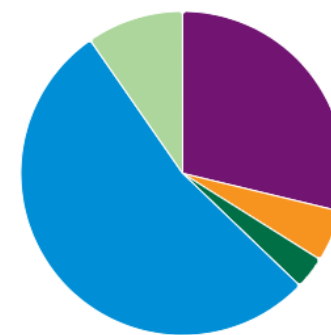
6'a till 9'e april



■ Kärnkraft: 36,6%
■ Värmekraft: 5,6%
■ Ospecificerat: 2,7%
■ Vattenkraft: 49,4%
■ Vindkraft: 5,7%



■ Kärnkraft: 24,8%
■ Värmekraft: 3,5%
■ Ospecificerat: 2,6%
■ Vattenkraft: 24,0%
■ Vindkraft: 45,0%

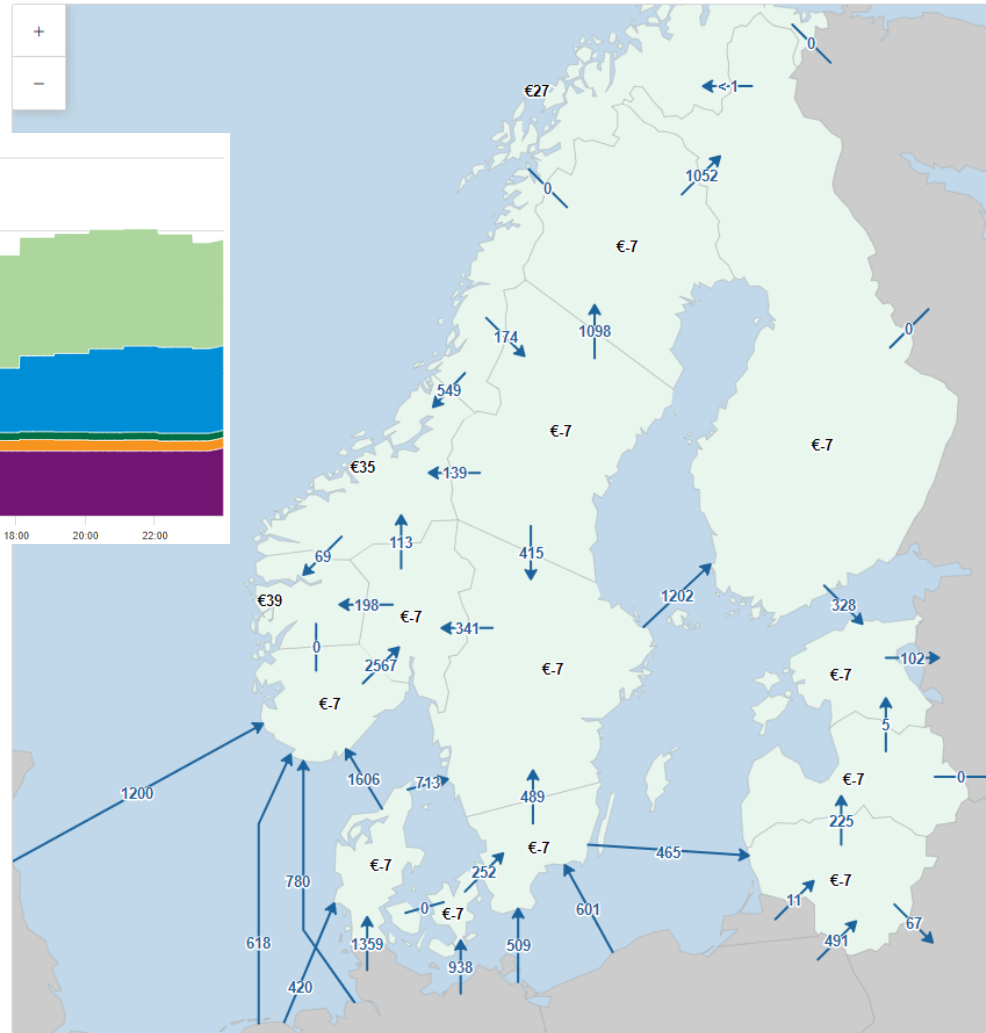
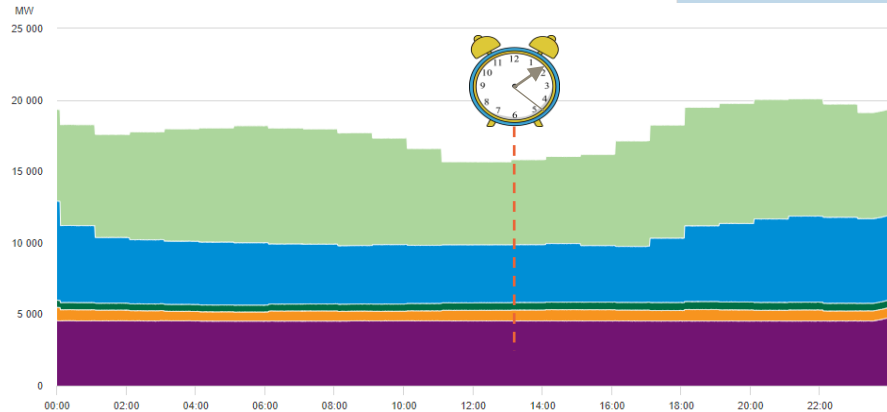


■ Kärnkraft: 28,4%
■ Värmekraft: 5,2%
■ Ospecificerat: 3,2%
■ Vattenkraft: 54,3%
■ Vindkraft: 8,8%

SVK Kontrollrummet 7'e april timme 13

Datum: 2024-04-07 Tid: 13:19

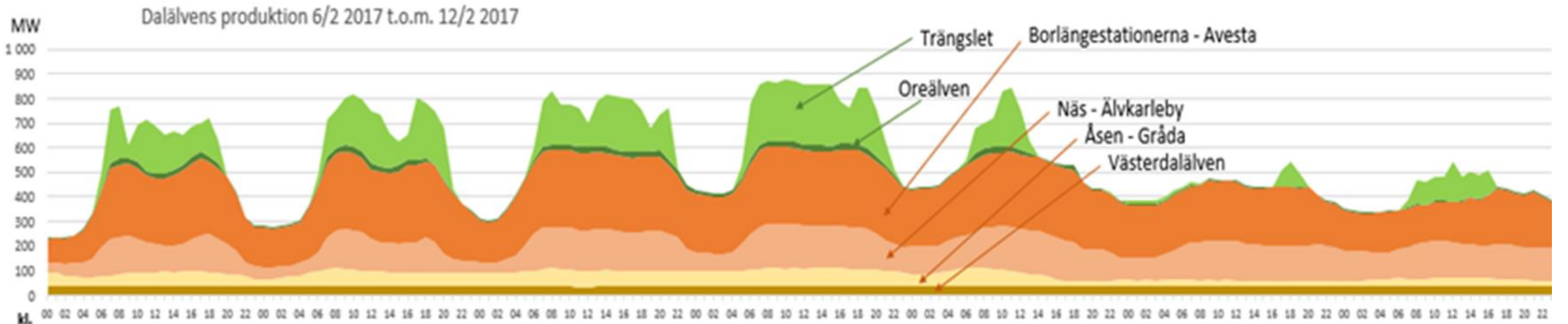
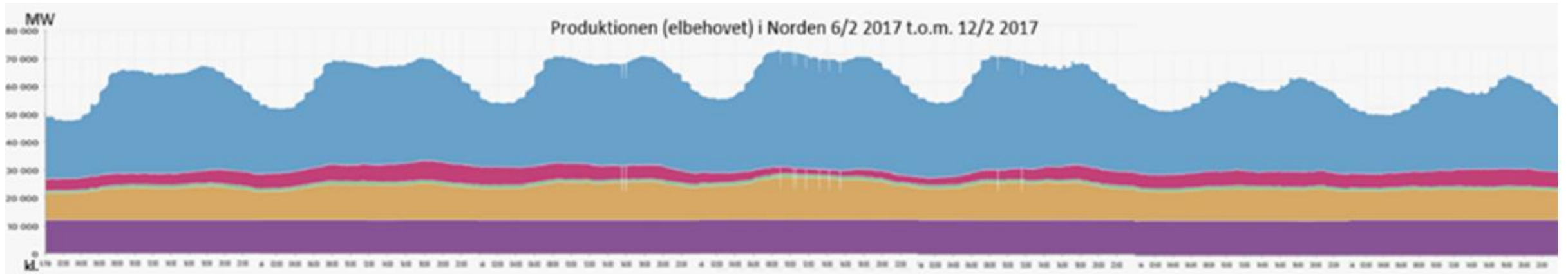
Karta Tabell (flöden) Tabell (priser) Tabell (netto export/import)



Netto export/import

SVERIGE Exporterar	949 MW +
DANMARK Importerar	146 MW +
NORGE Importerar	4 509 MW +
FINLAND Importerar	1 926 MW +
ESTLAND Importerar	230 MW +
LETTLAND Importerar	220 MW +
LITAUEN Importerar	676 MW +

Systemtjänster 1.



Systemtjänster 2.

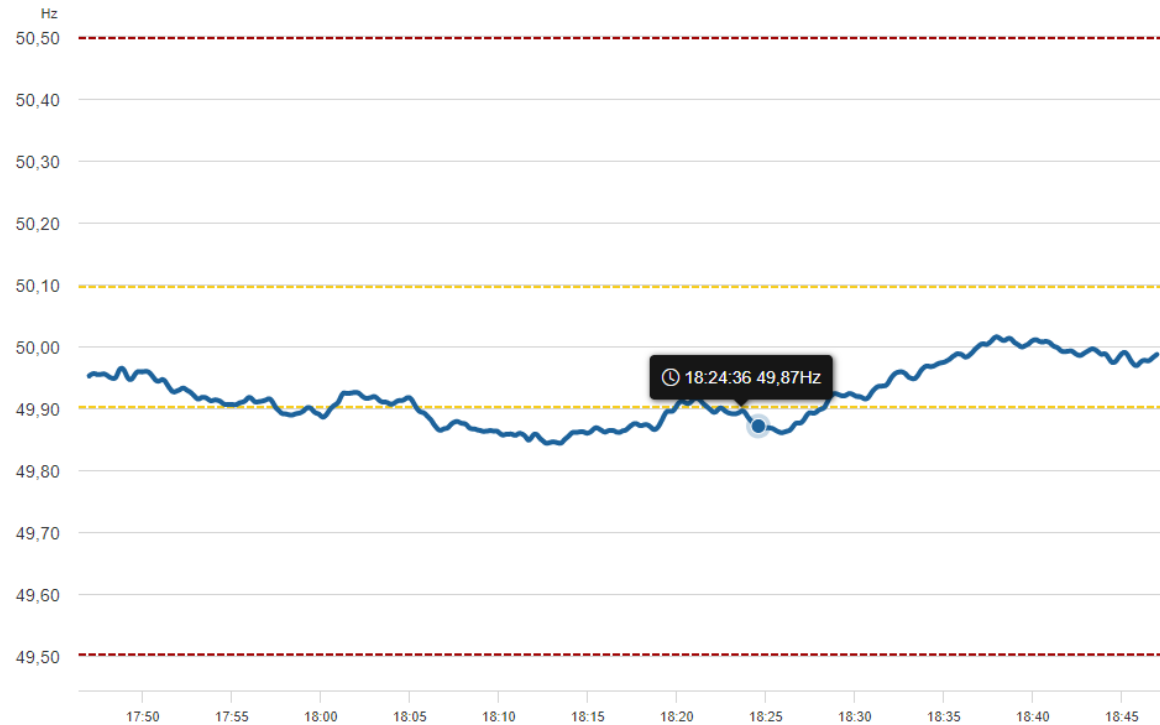
Datum

< 2024-04-08 >

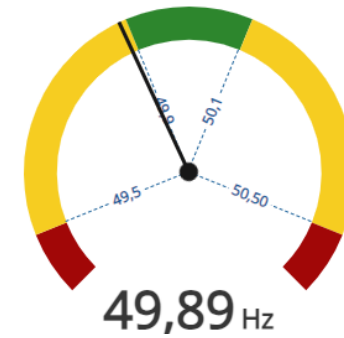
Tid

< 18:47 >

Graf Tabell

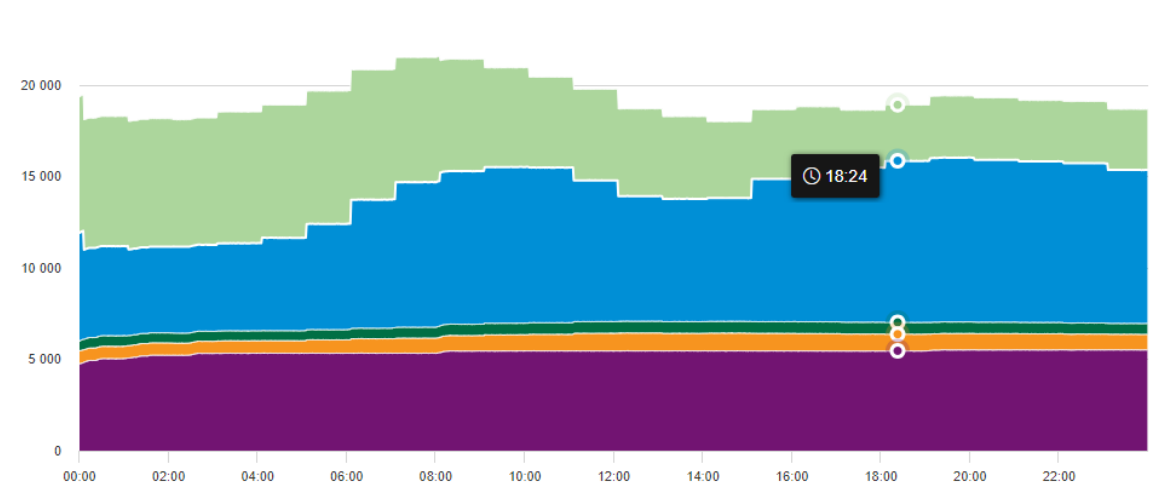


Frekvens klockan 18:23:54

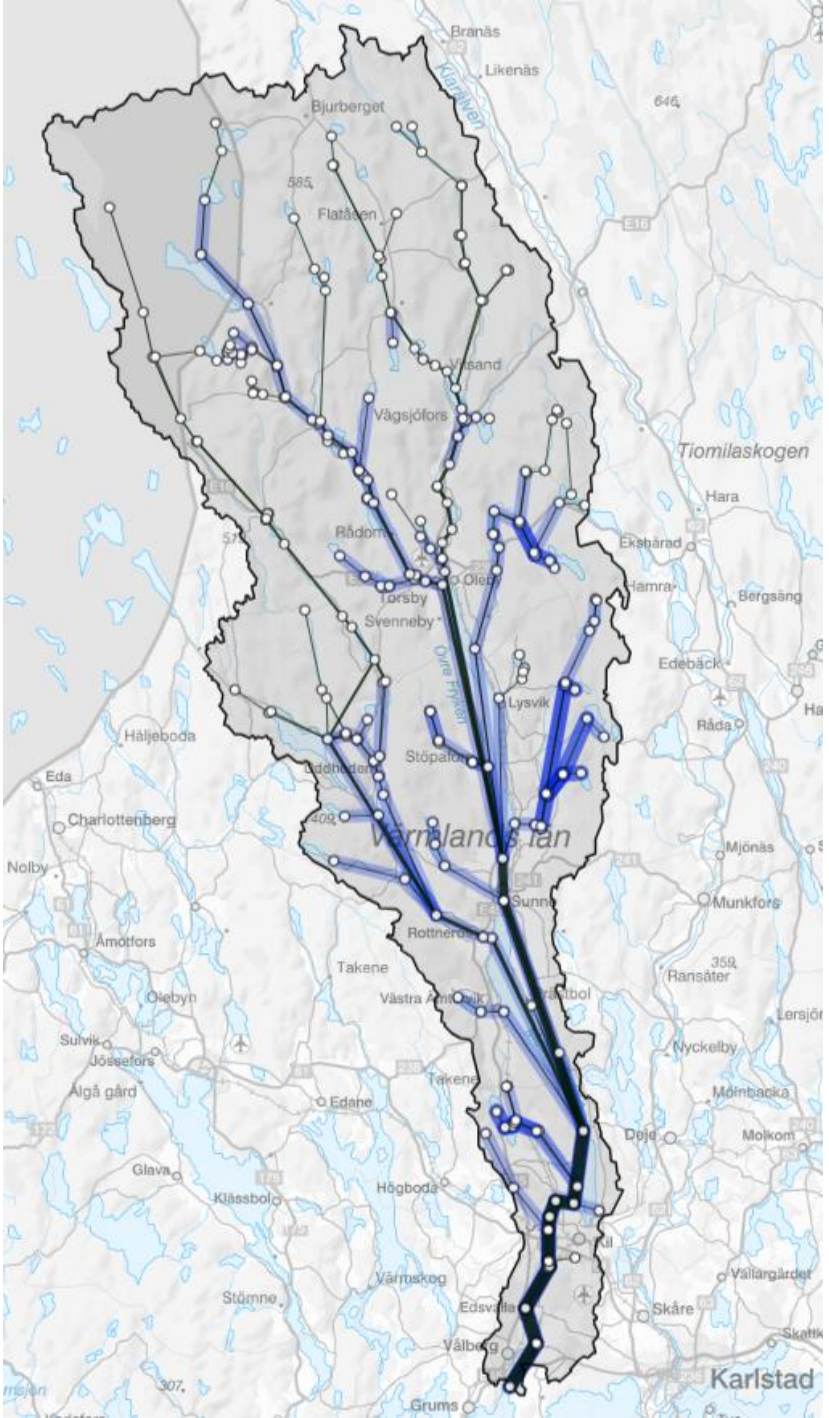
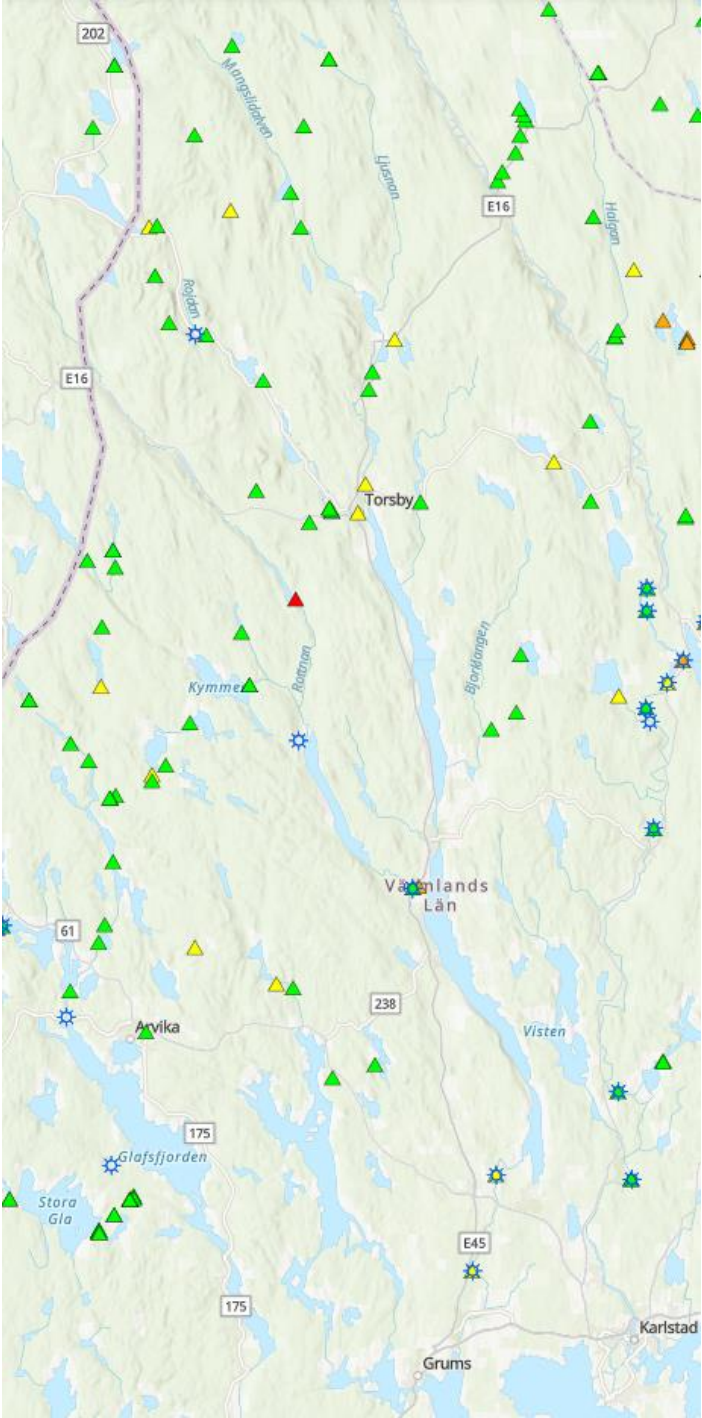


MW

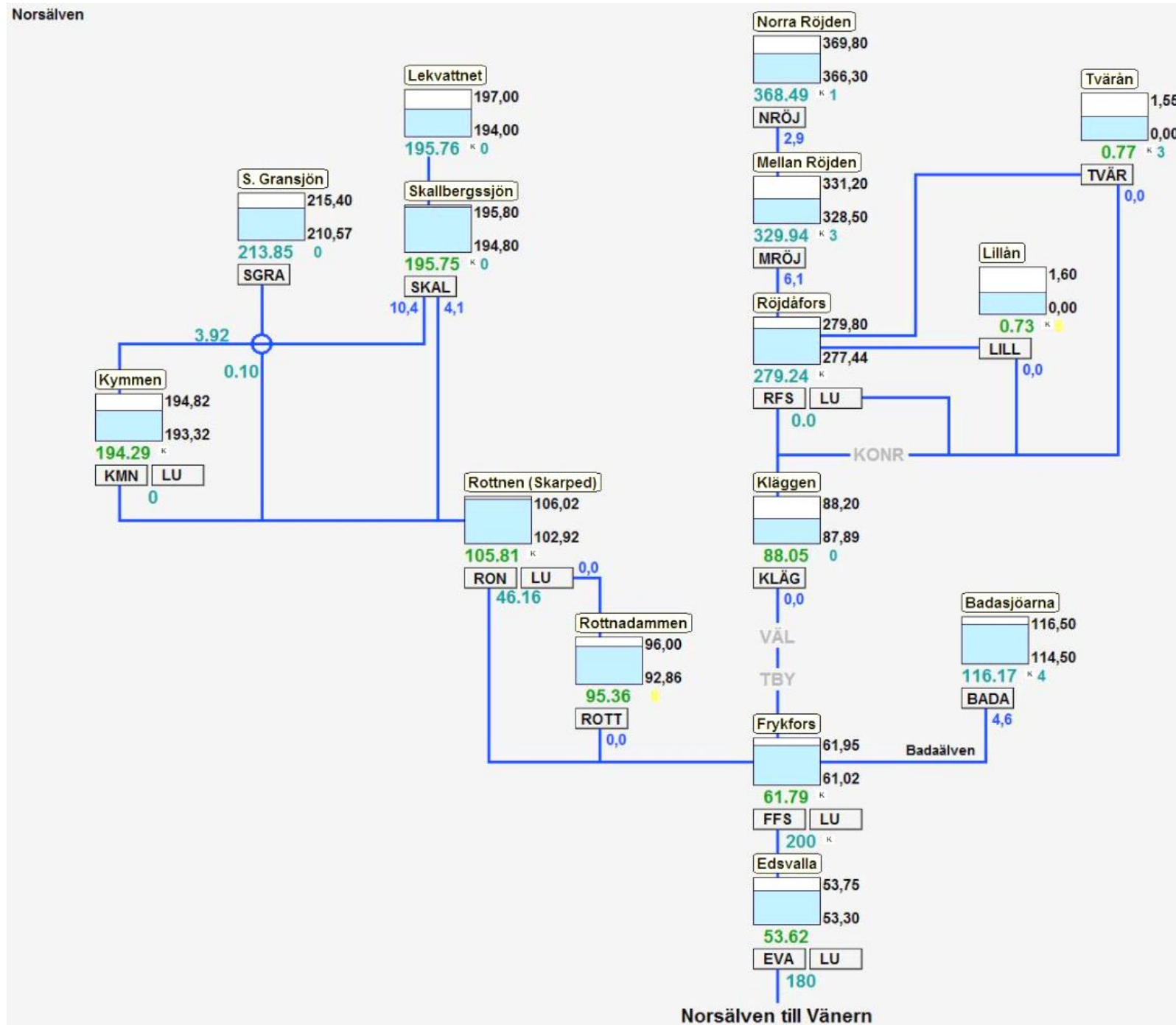
25 000



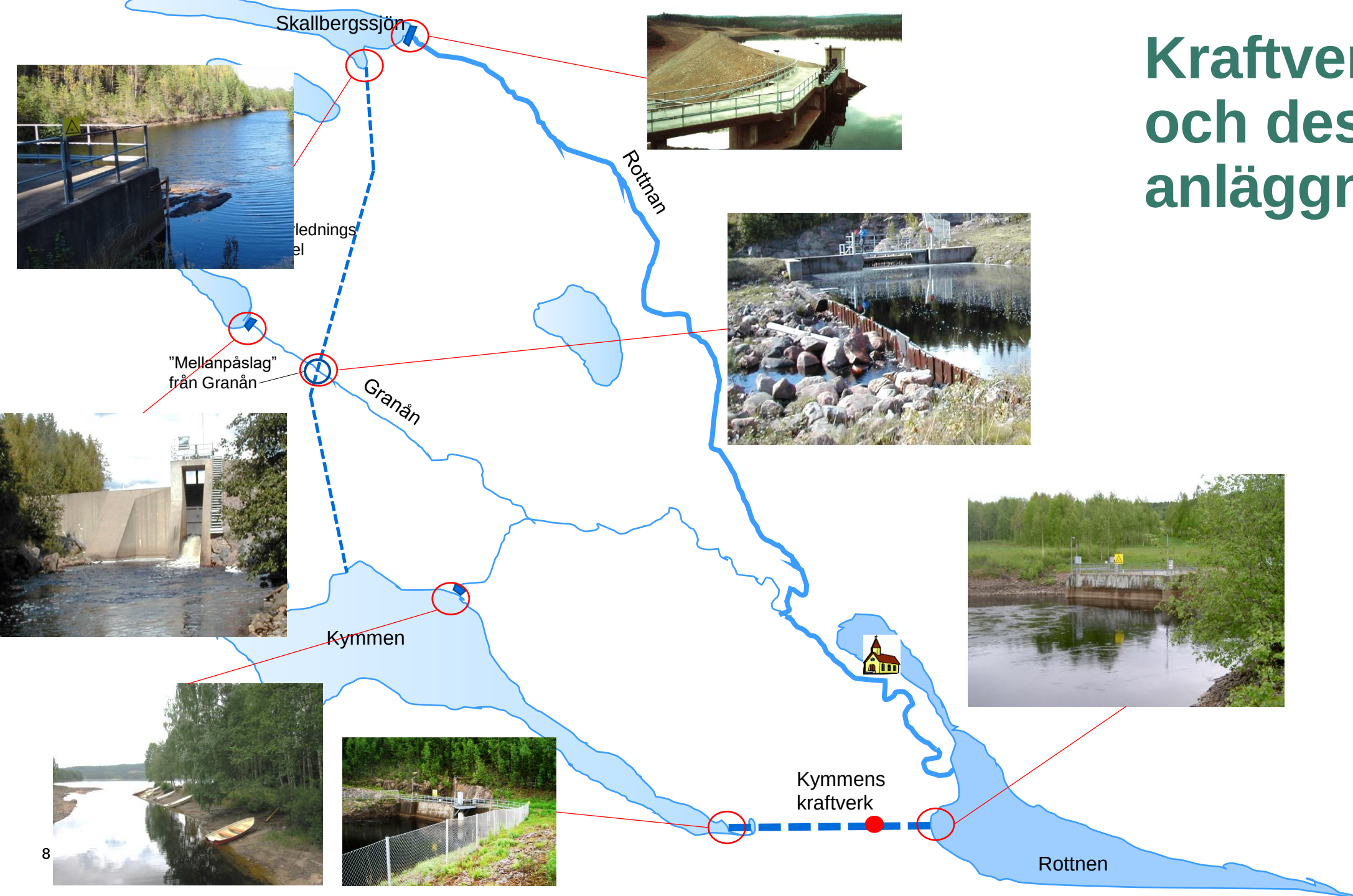
Norsälven



Norsälven



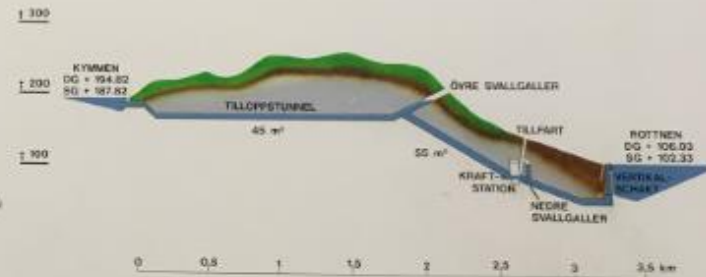
Kraftverket och dess anläggningar



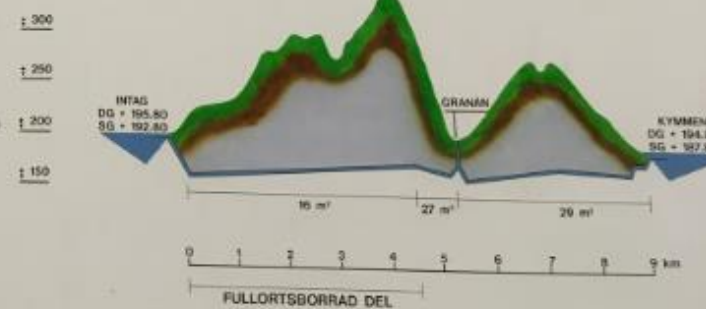
Översiktsplan



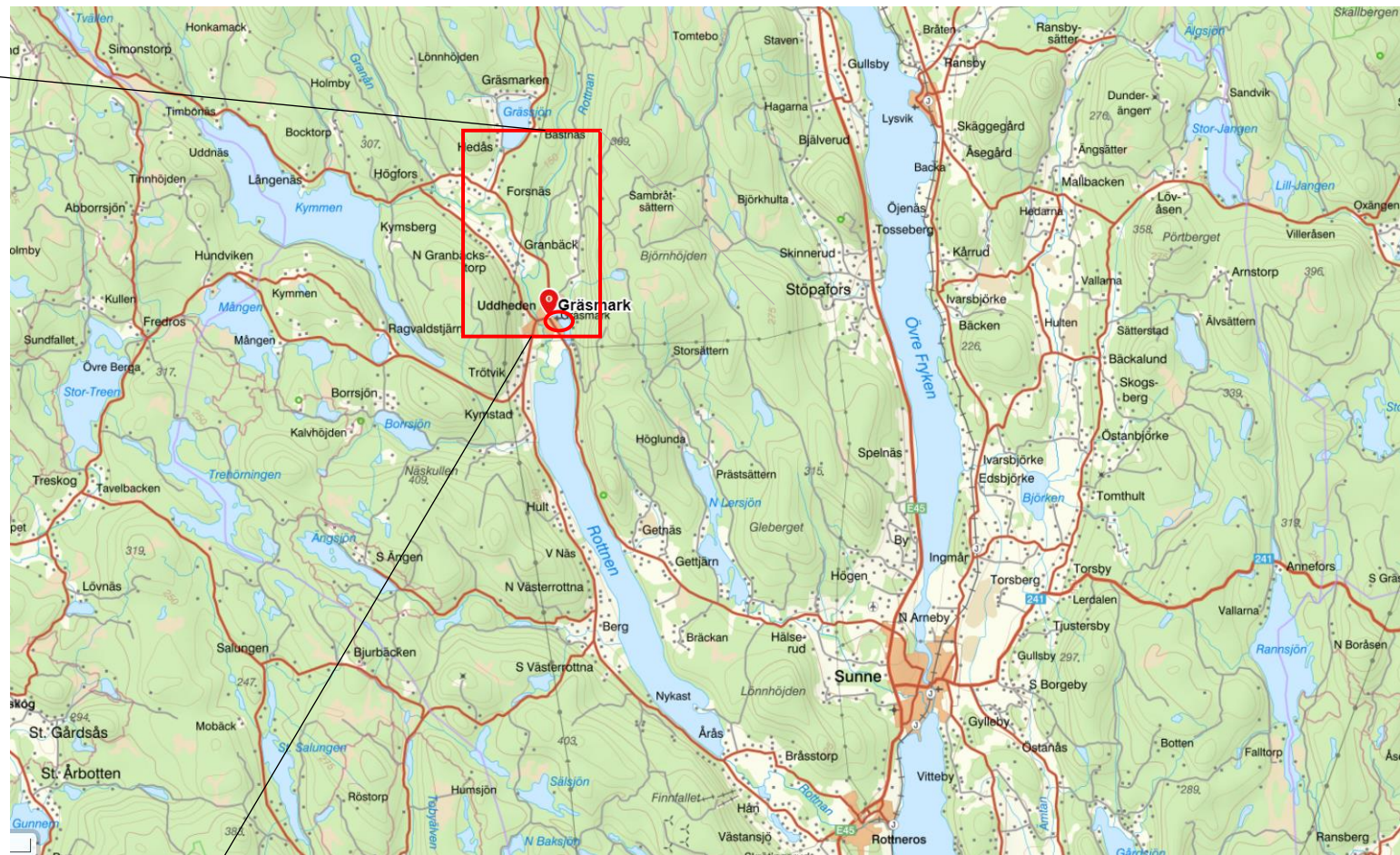
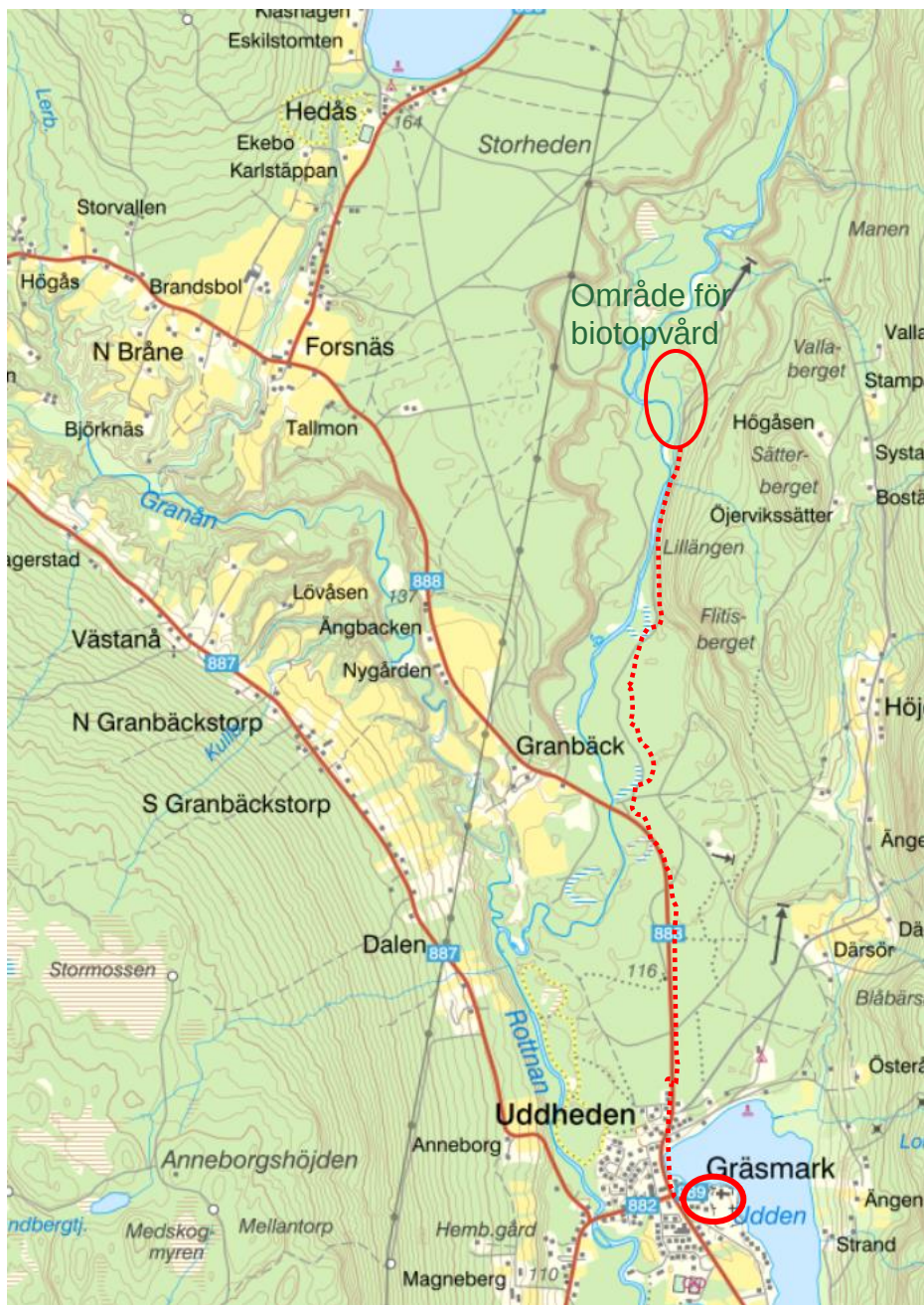
Tillopps- och utloppstunnel

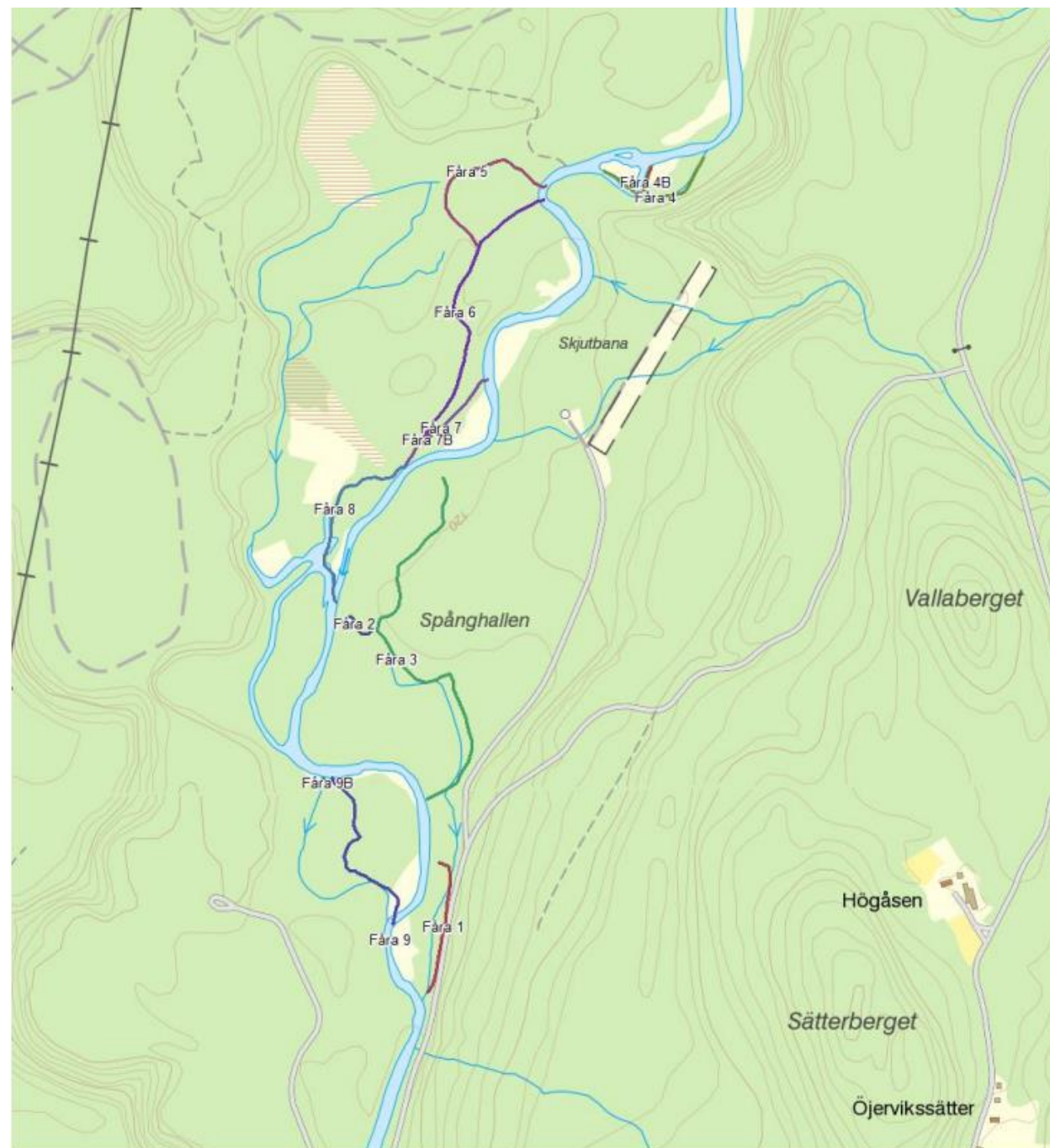


Överledningstunnel









Figur 2. Inmätta sidofåror, södra delområdet