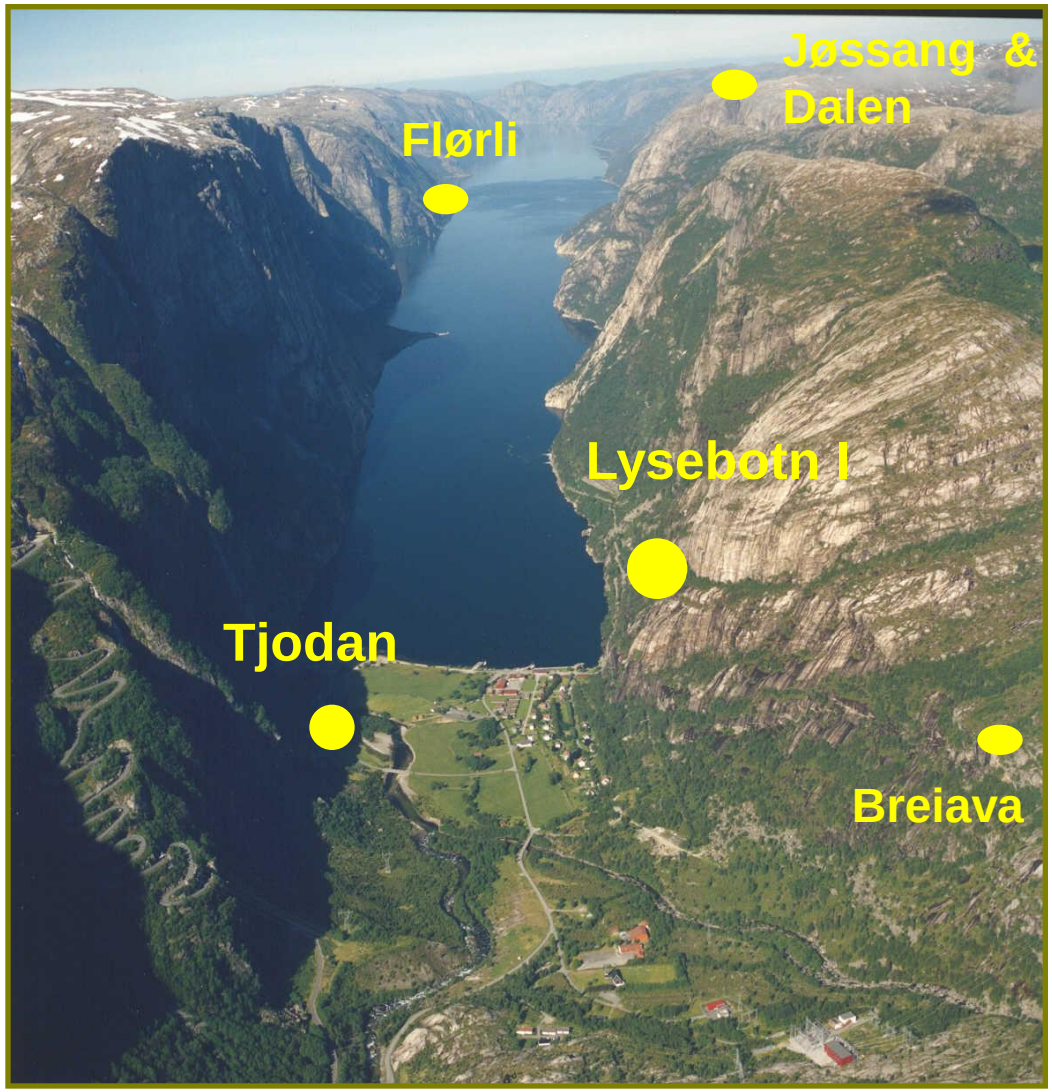
One Norwegian Example of Environmental Friendly and Efficient use of Hydro Power.

Lysebotn II

The Lysefjorden Area



Jøssang&Dalen: Approx.115 GWh

Flørli: Approx. 250 GWh

Tjodan: Approx. 320 GWh

Lysebotn I: Approx.1320 GWh

Breiava: Approx.55 GWh

Lysebotn I – Pioner Work

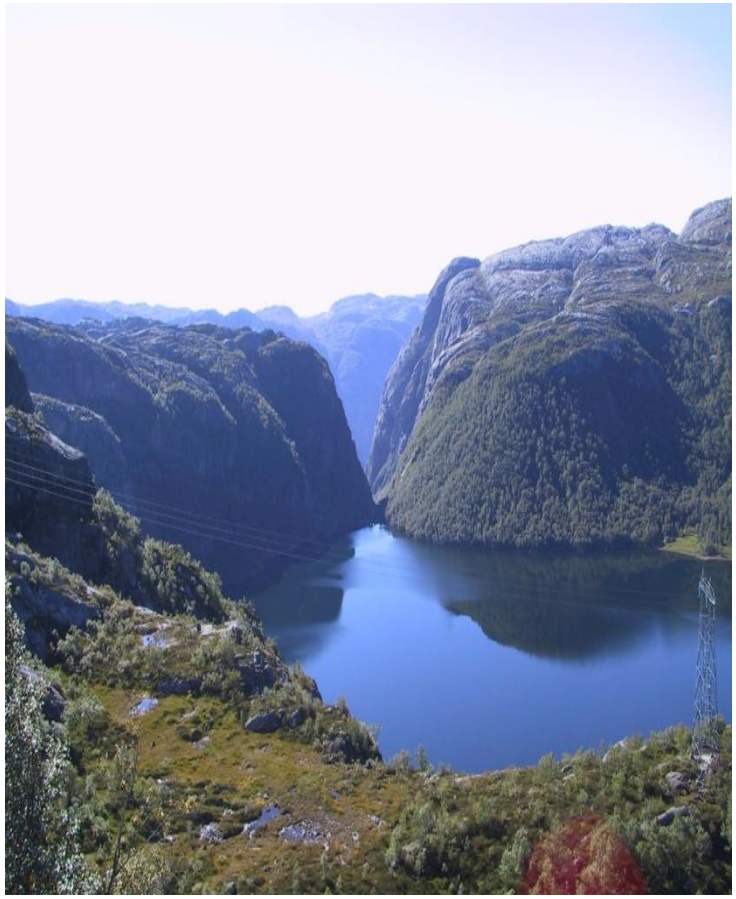
- Played a very important role in the rebuilding of the Rogaland County the two first decades after the second world war.

- 210 MW – 6 horizontal Pelton
- Gross Head 630 meter
- 1320 GWh/year
- Start Operation 1953-1964
- Catchment Area 316 km^2
- Reservoir Percent 70 %

Main Achivements of the New Eletrical Power Plant.

- Increased use of allready regulated water => higher efficiency
- Total contribution of approxomately 180 GWh renewable hydro power entittle to green sertificates
- Increased production to the cost of $ 0,5/kWh (Marked value about $1/kWh)
- Expected annual average production approxomately 1500 GWh.
- Increased effect from 210 MW til 370 MW => expected hours of operation redused from +6000 hours today to +4000 hours. => more power may be produced when prices are high.

Good Environmental Project

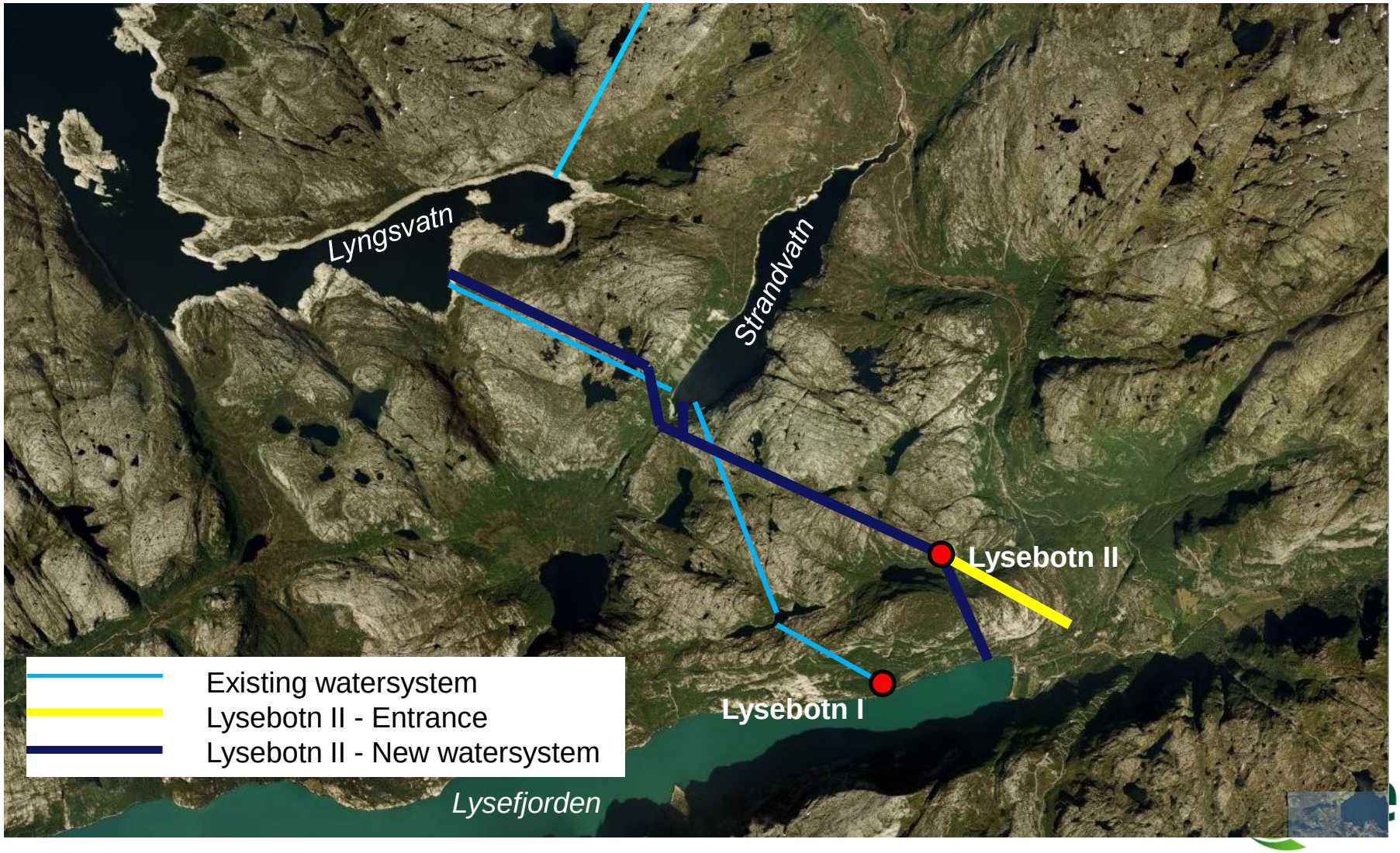


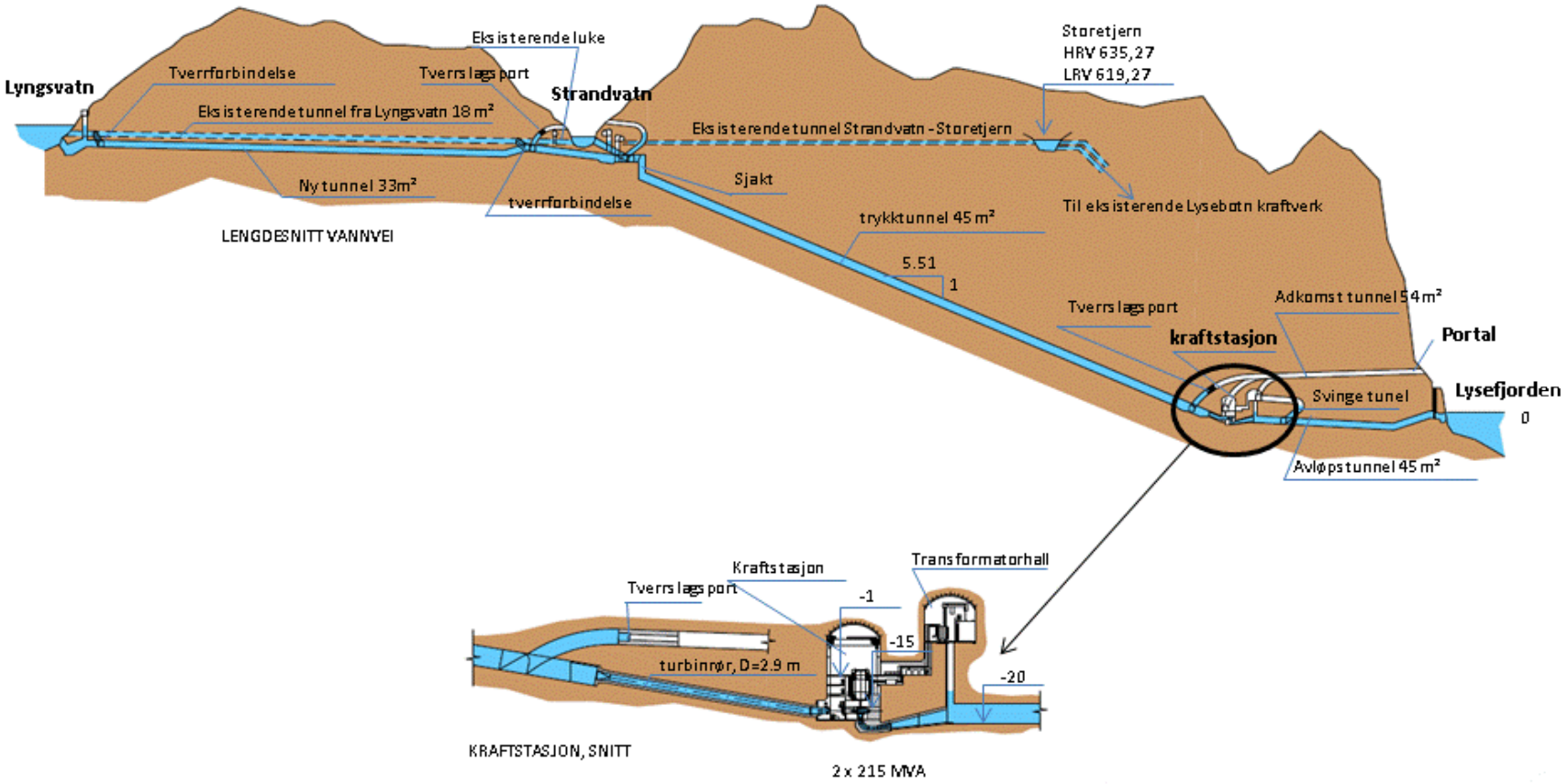
- No new waters or rivers are affected
- Very limited environmental Effects
- No need to apply for new consession

Lysebotn II Power Plant

- Increased yearly production from 1320 GWh til 1500 GWh. Todays production is done by 6 Pelton turbines. 3*30 MW + 3*40 MW. Totalt effect: 210 MW.
- Lysebotn II: 2 identical highpressure Francis turbines, each with the effect of 185 MW. Total effect: 370 MW.
- Planned production start-up in the spring of 2018.

Some Details





Lysebotn II Hydro Power Station – Schematick

Questions ?

Thank You for Your Attention!