What I have learned from the Autralian designer articles?

* The generated electricity and capability to produce more electricity from the hydro generators is great.
* There are many hydro-generators produced 30-40 years ago may need refurbishment and uprating.
* Patent rights on winding types
  + North America – Lap winding
  + Europe – Wave winding
* Hydro-generators up to 500MVA – Indirect cooling (medium air)
* ‘Pole phase groups are always arranged with 60° phase belts’ Look for phase belt
* ‘The pre-formed term refers to the coils or bars that are fully formed and insulated before insertion into the stator core slot’
  + Preformed multi-turn coils – Only lap wound
  + Preformed single turn bars – lap or wave wound
* There are thermal ageing threshold for isolation materials
  + After thermal ageing threshold, each 10°C increase in isolation material cause diminish %50 life time of insulation material.