

eStorage Project Update

Birr, Switzerland



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Lee Lenhard

Why eStorage?

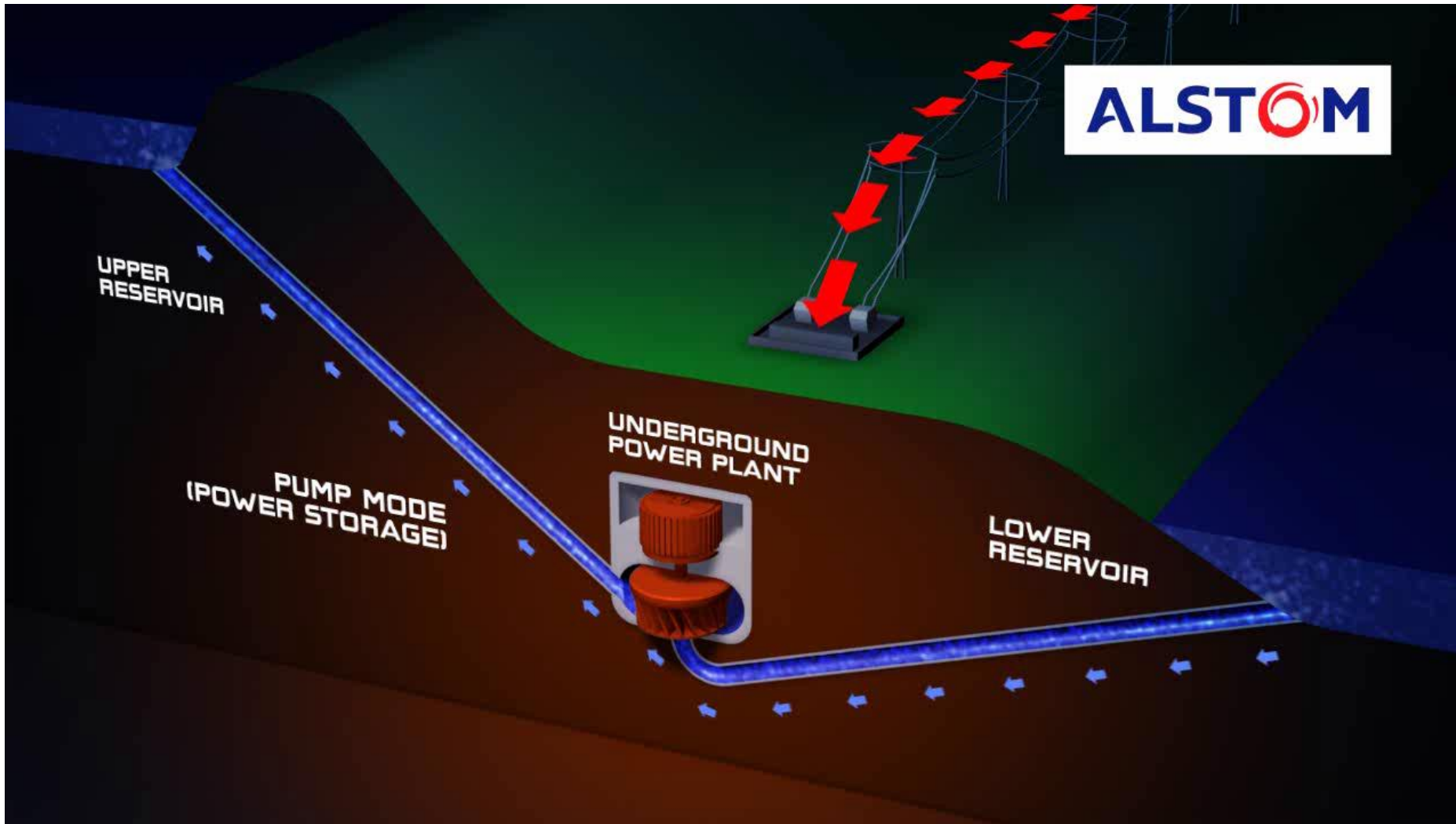


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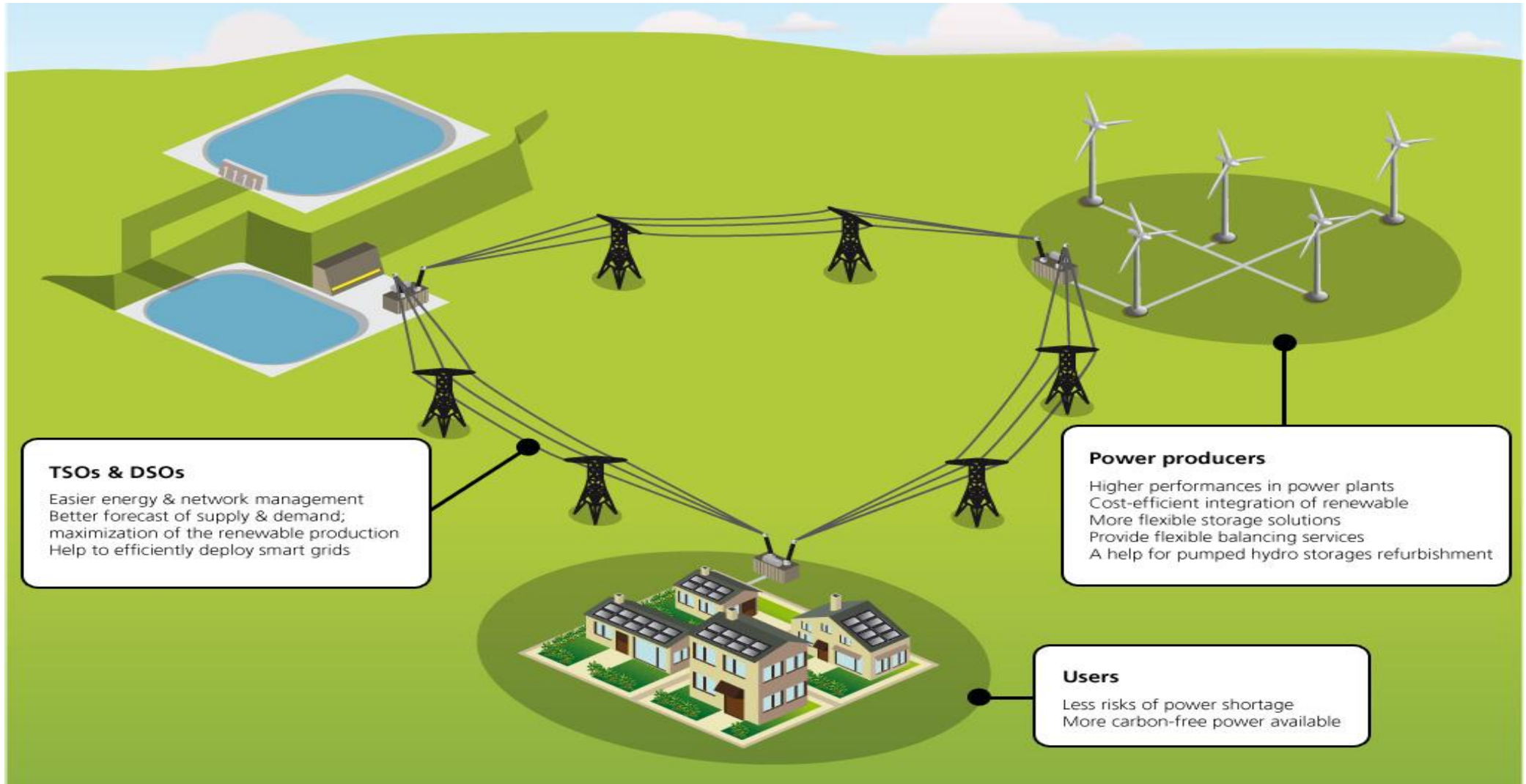
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+ Flexibility

Pumped Hydro Storage Plants (PSPs)



eStorage benefits all electricity stakeholders



eStorage is



Developing cost-effective, flexible, reliable GWh-scale energy storage

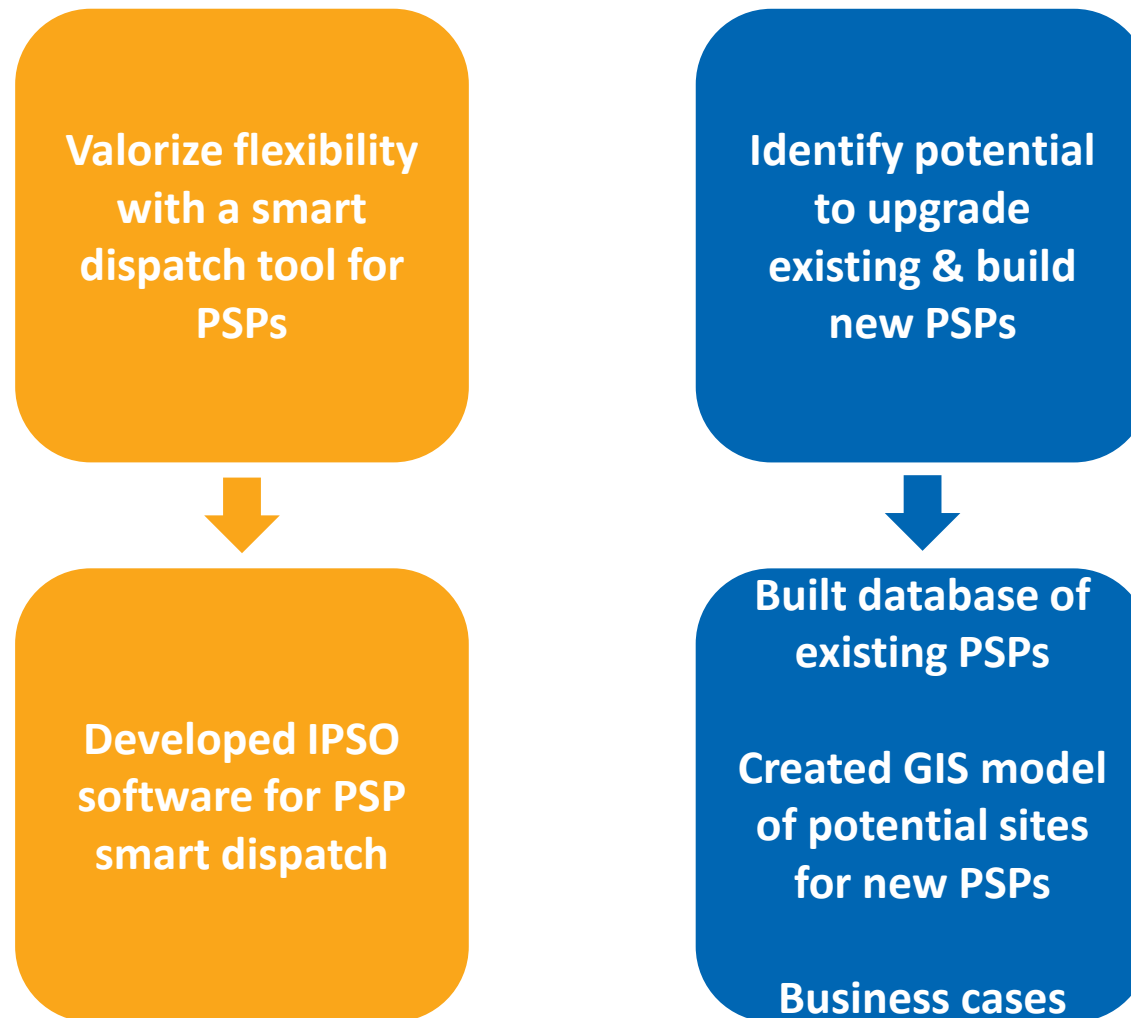
Valorize flexibility
with a smart
dispatch tool for
PSPs

Identify potential
to upgrade
existing & build
new PSPs

eStorage results to date



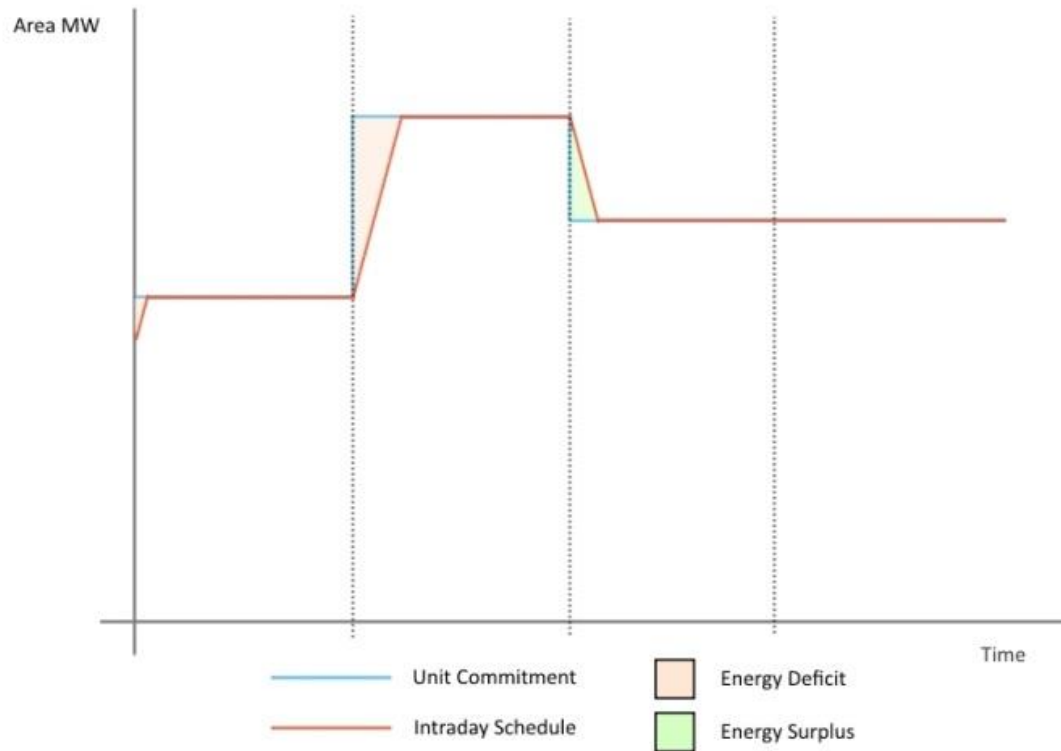
Developing cost-effective, flexible, reliable GWh-scale energy storage



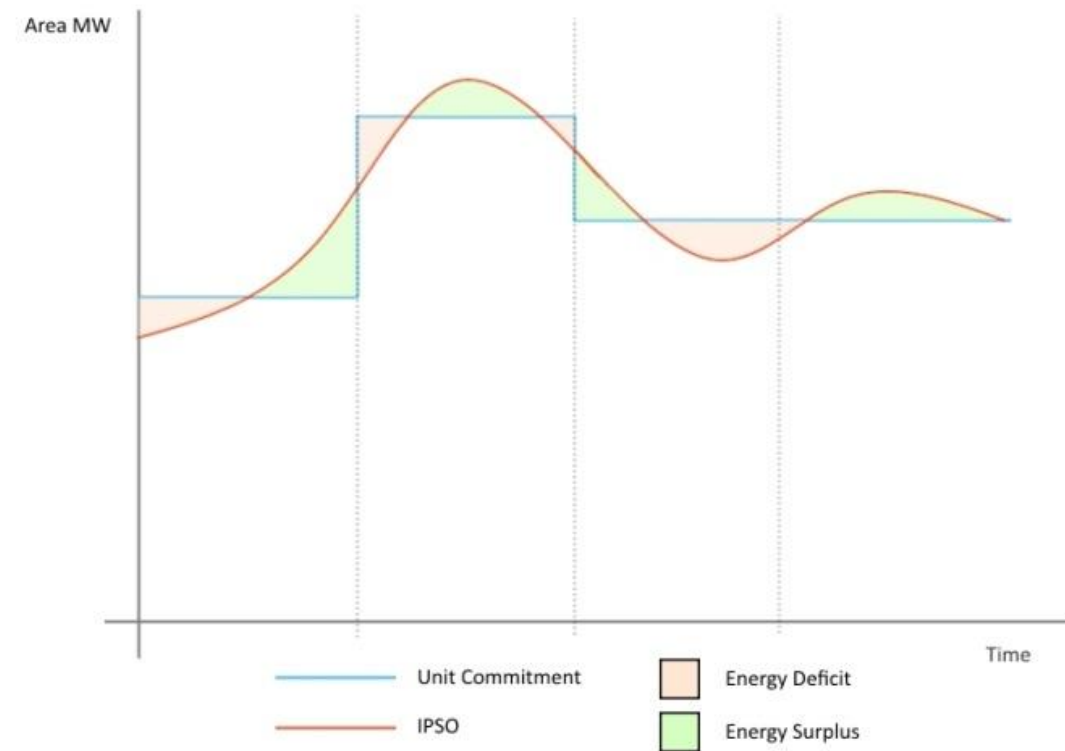
IPSO



Improves profitability by allocating generation & storage resources to meet production schedules at lowest cost



Without IPSO



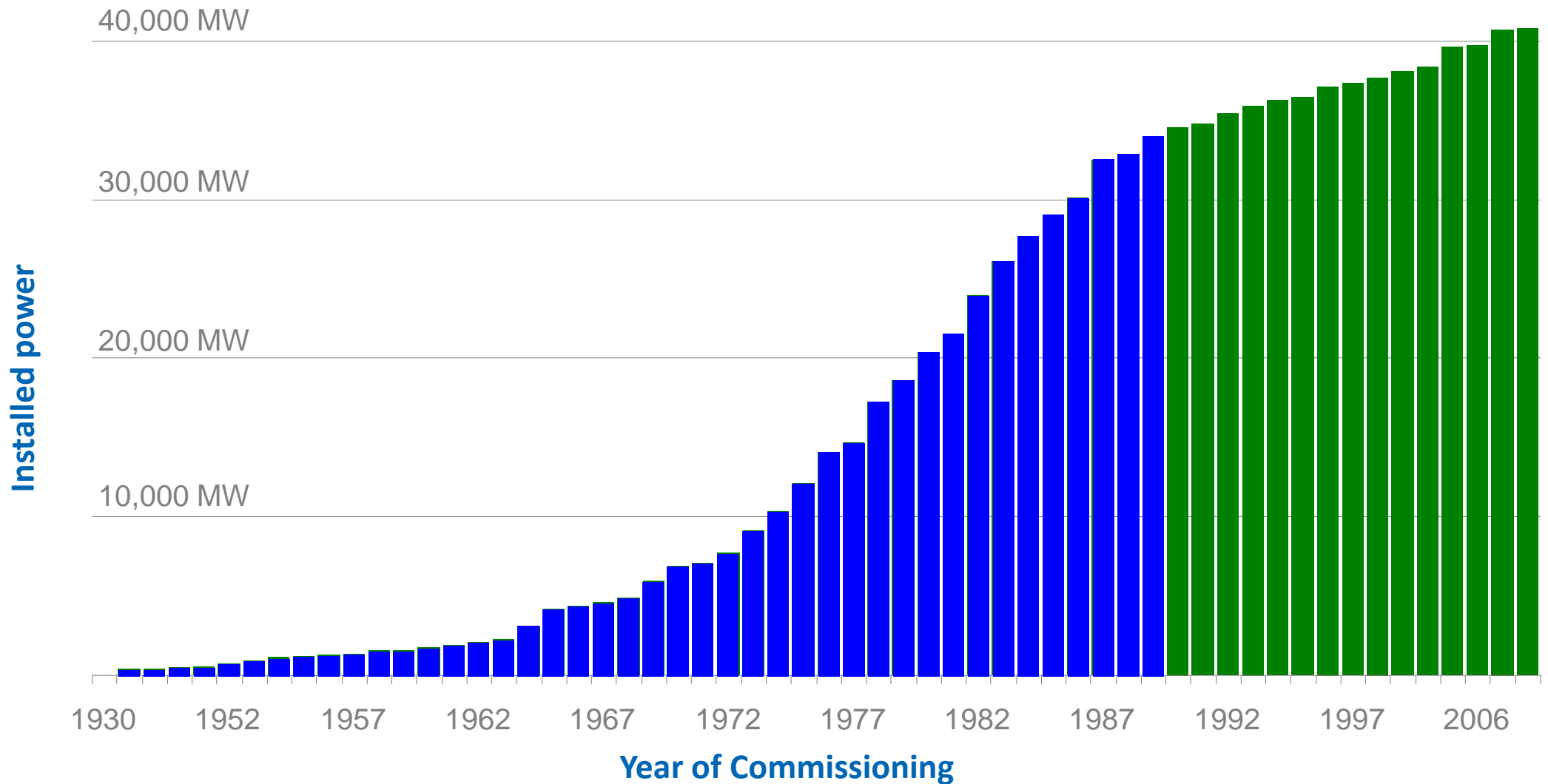
With IPSO

From optimization every 30 minutes to each minute

Avoids penalties

European PSP fleet

35 GW / 84% of fleets is > 30 years old





European PSP fleet



Unit axis by power

