

Saving Energy by Effectively Managing Battery Lifetime

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Schweizerische Eidgenossenschaft
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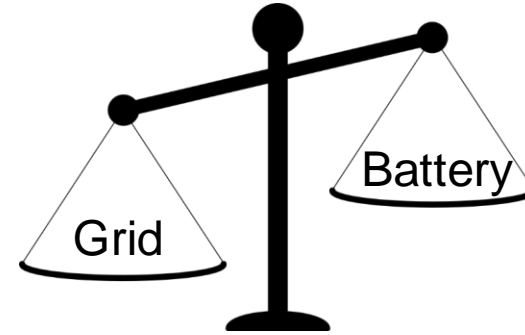
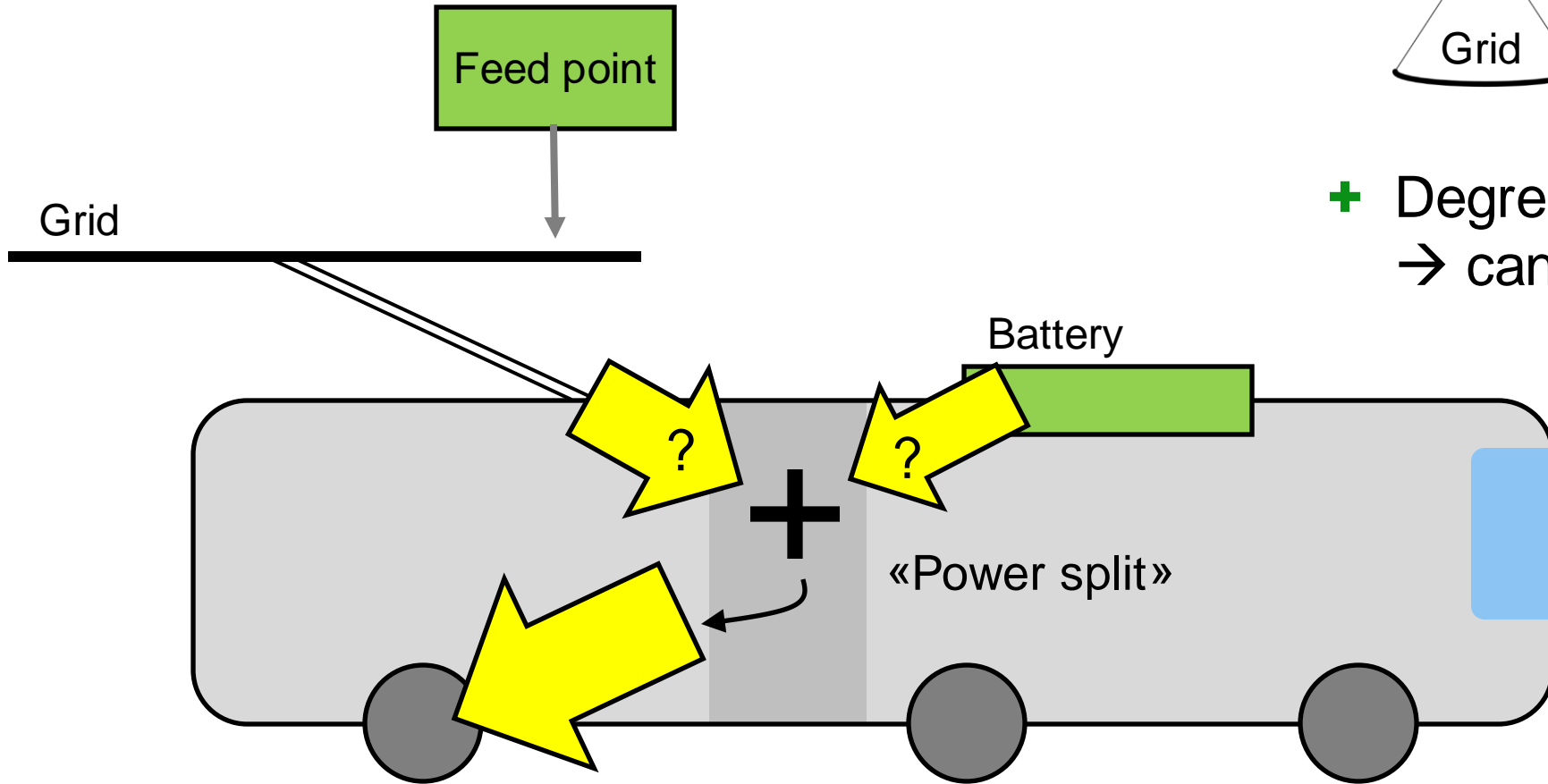
Bundesamt für Energie BFE
Swiss Federal Office of Energy SFOE



VBZ

Züri  Linie

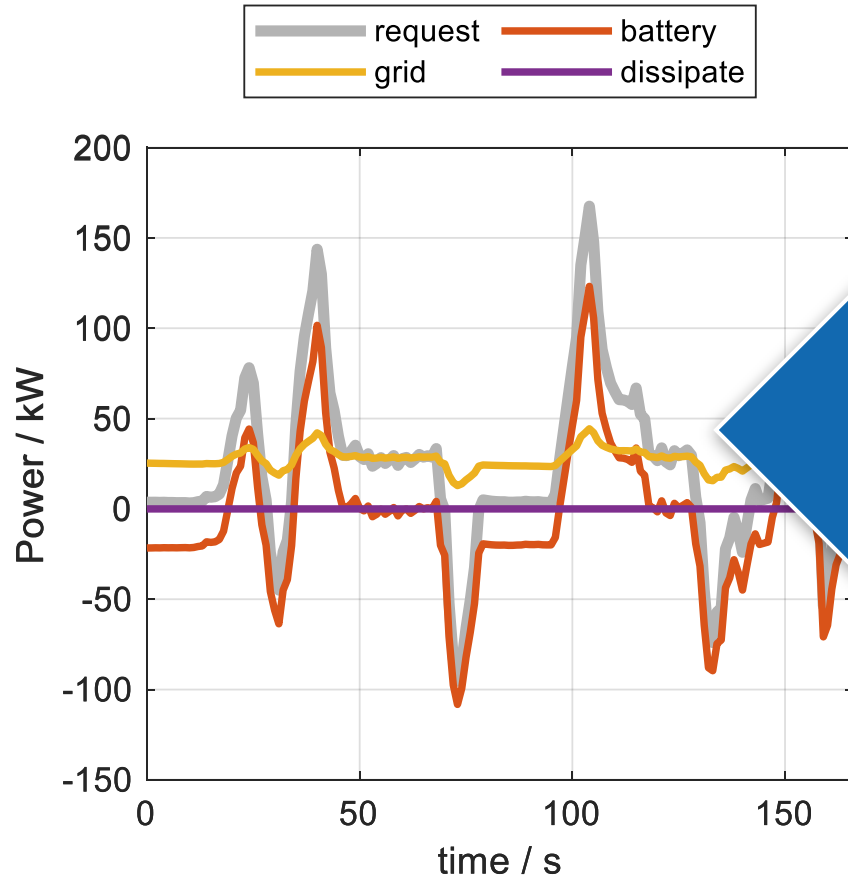
How to influence battery lifetime?



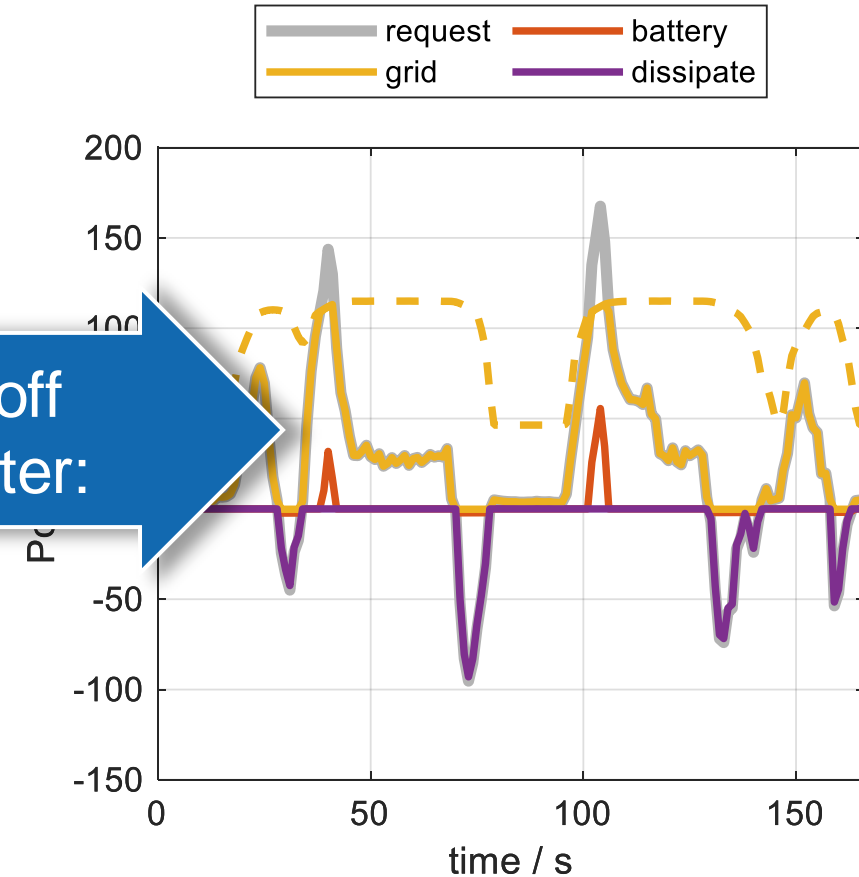
+ Degree of freedom
→ can influence

What does this «power split» look like?

Energy-optimal solution:



Battery-conserving solution:

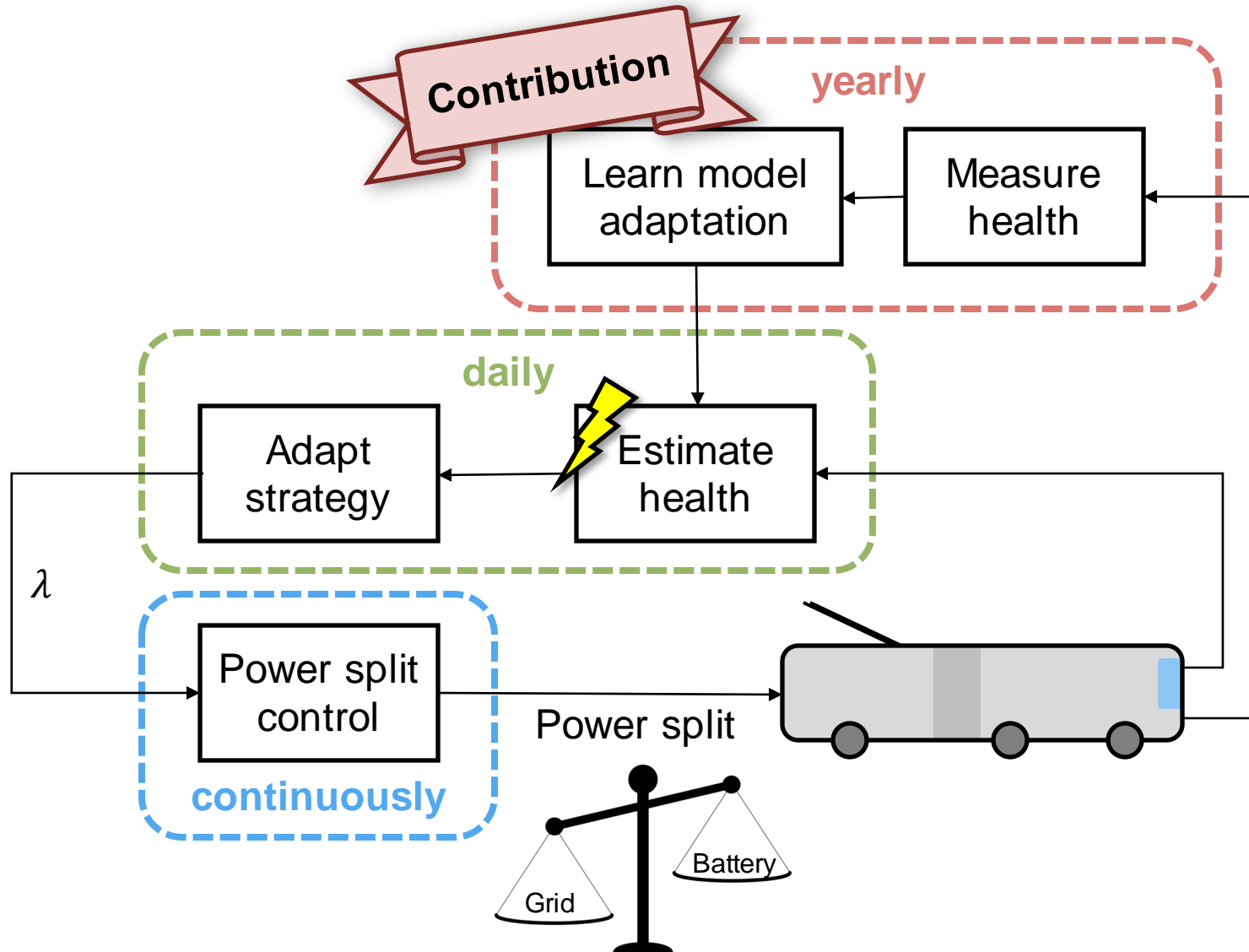


Trade-off
parameter:

Heavily use battery to even out grid loads

Use battery as little as necessary

How to «manage» battery health?



How much do we save?

- 8.8% energy consumption
by more effective battery usage

