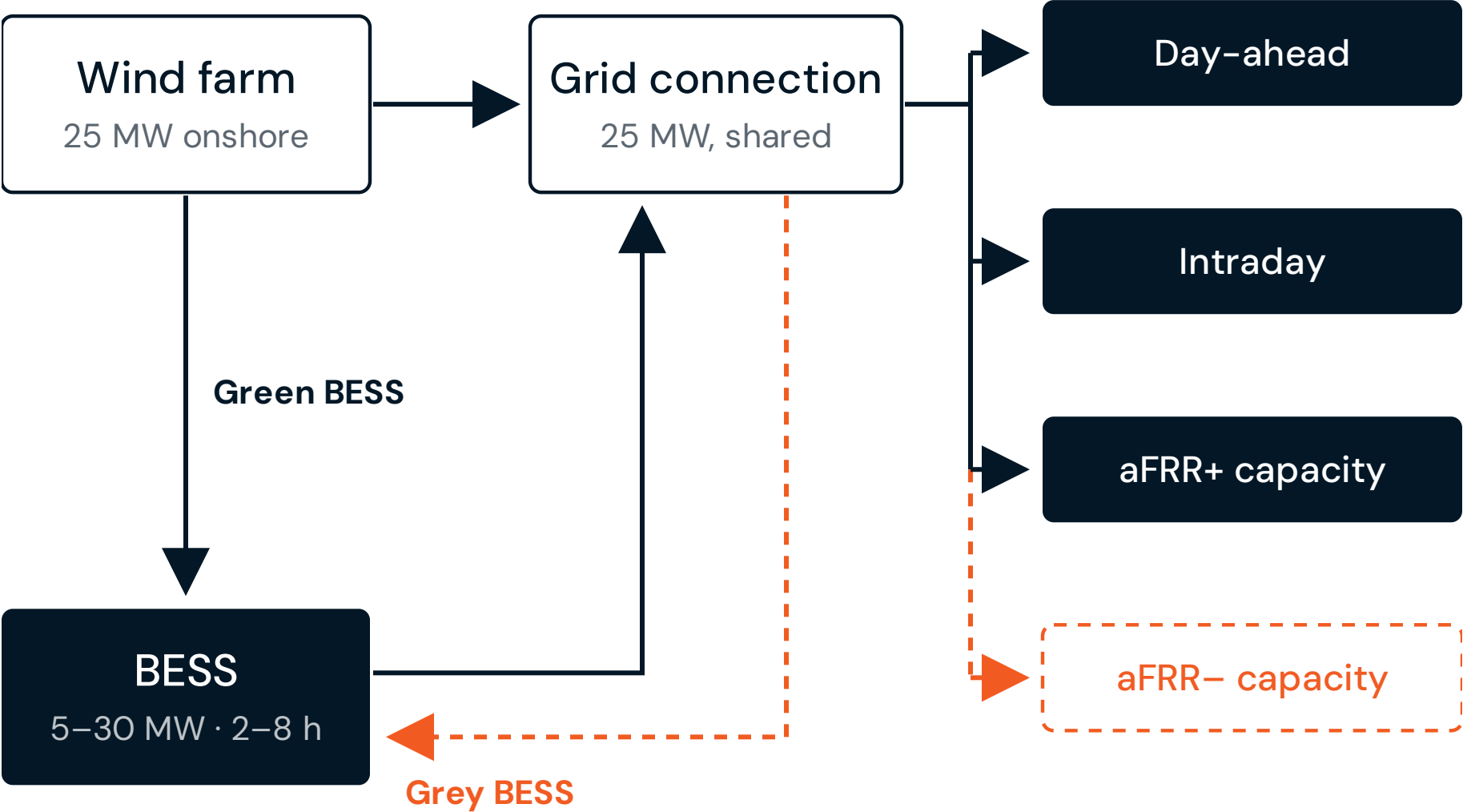
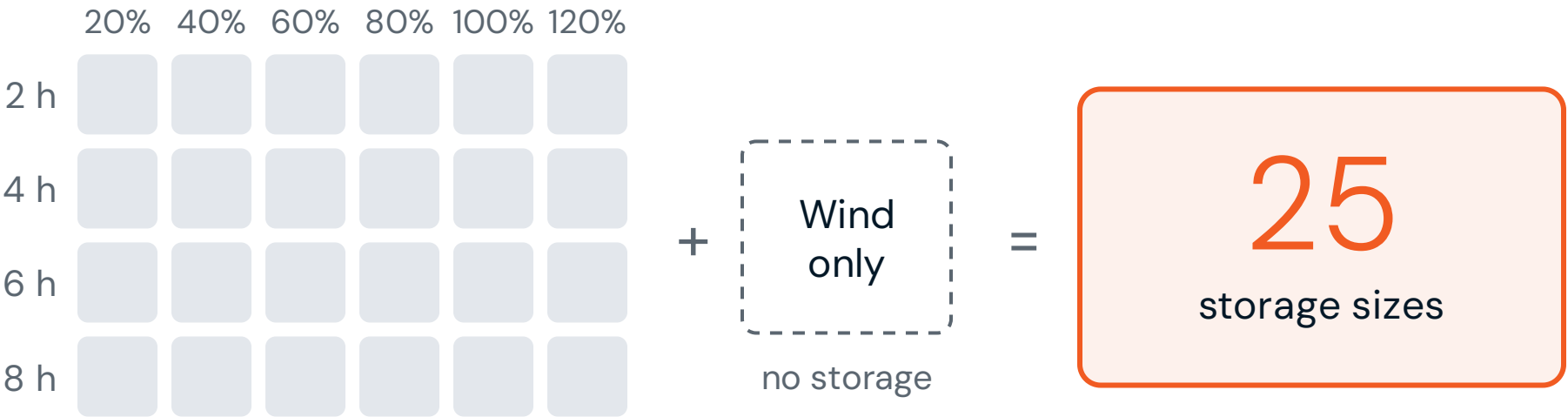


How do you size a battery next to a wind park?



Which battery size pays off?

Simulated sizes · power in % of grid connection × duration



How does the choice between green and grey change the right storage size?

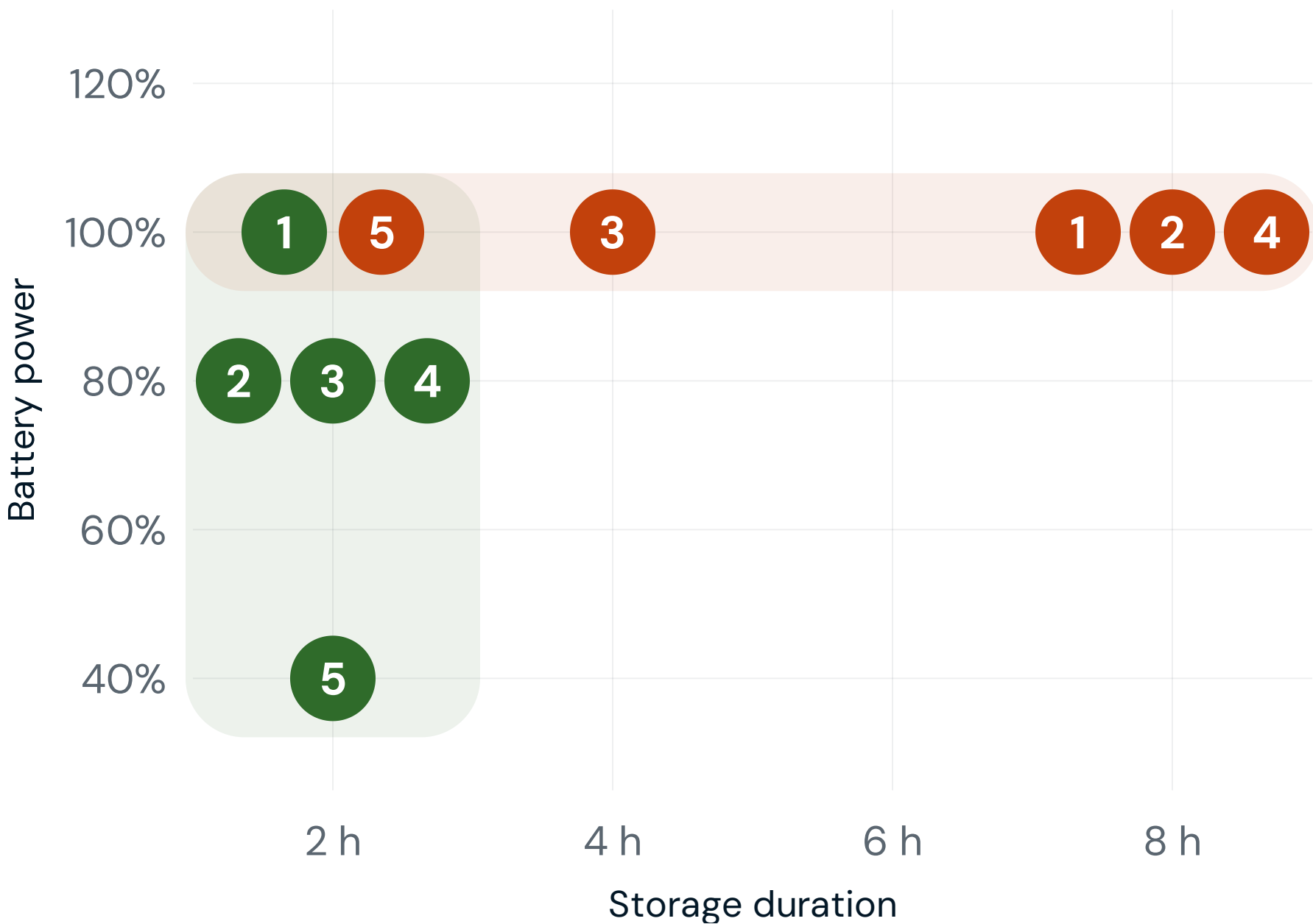
Green storage is sized by the wind park.

Grey storage is sized by the market.

Best battery size per market price scenario

Power in % of grid connection

● Green storage ● Grey storage



Market price scenarios

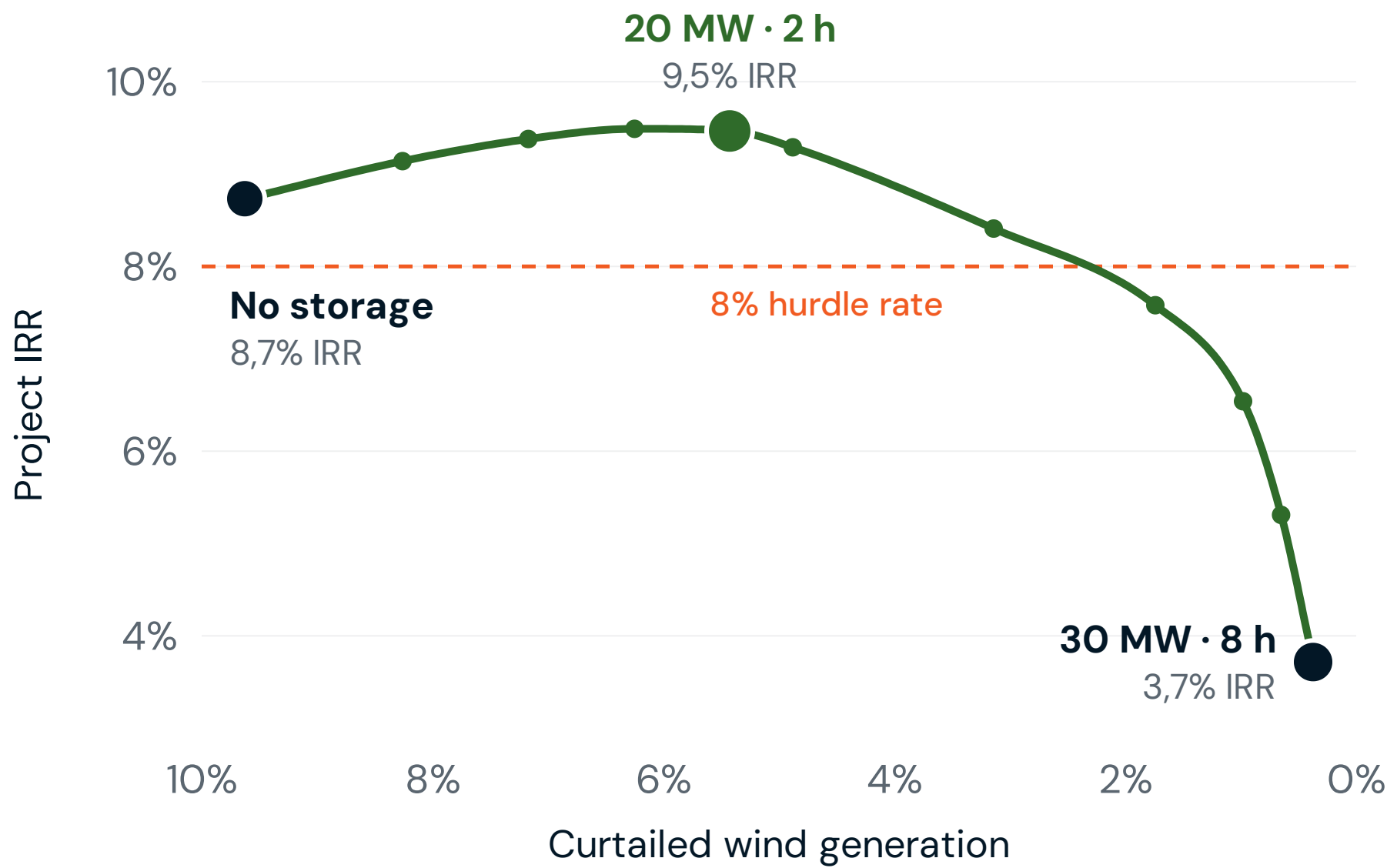
1 Disorderly 2 Downside 3 Central 4 Low Flex 5 Coordinated

How does the choice between green and grey change the right storage size?

Less curtailment doesn't mean a better business case.

Highest IRR per curtailment level

Green storage · central scenario



Best green size

5,4%

curtailment, down from 9,6%

Curtailment near zero

3,7%

IRR, below the hurdle rate

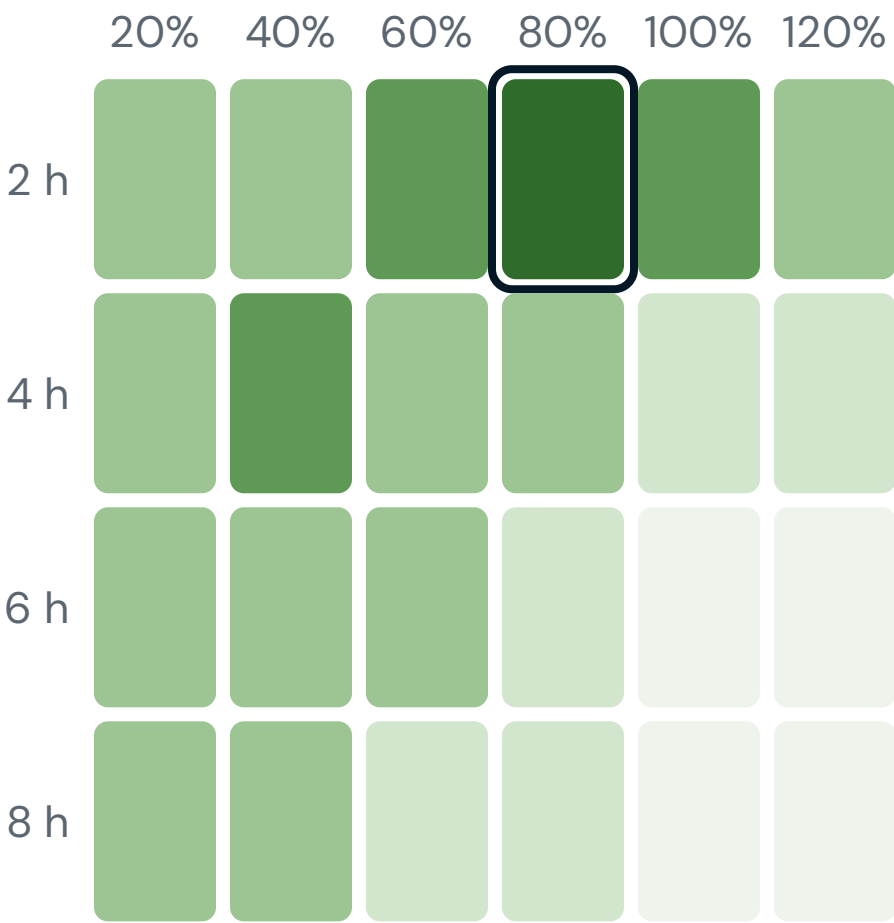
How does the choice between green and grey change the right storage size?

Least-regret sizing across all scenarios

Worst-case NPV regret per storage size

Regret = NPV shortfall vs. the optimal size of each price scenario

Green storage

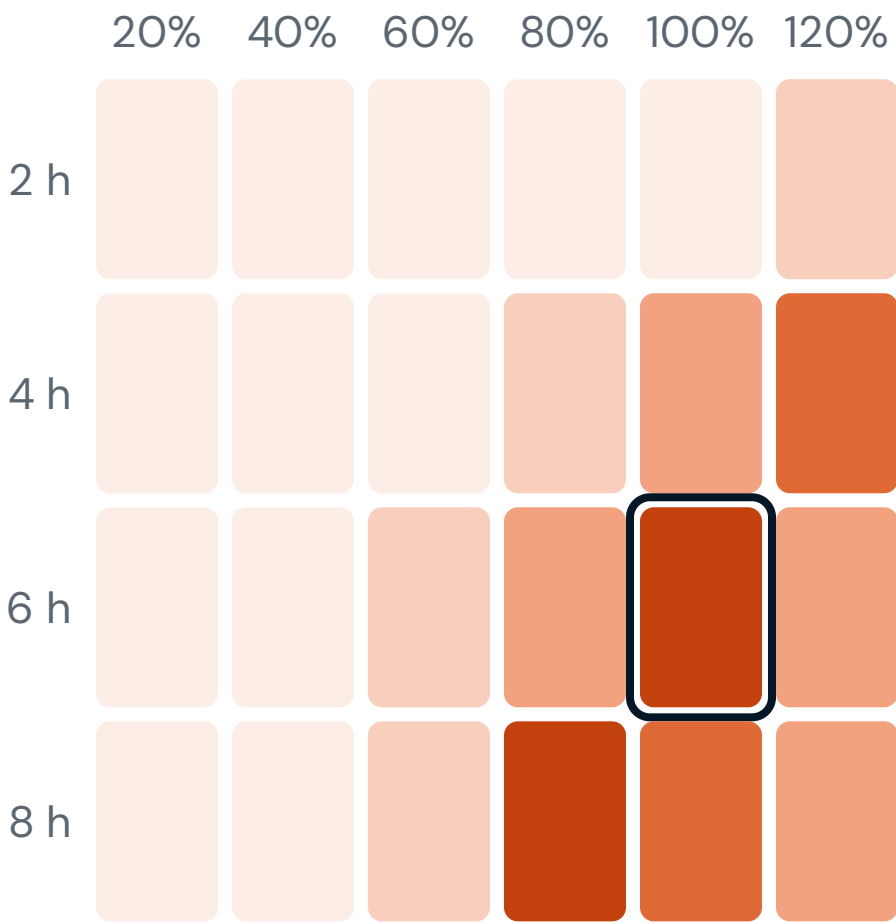


Least-regret size

80% · 2 h

worst-case regret 0,7 M€

Grey storage



Least-regret size

100% · 6 h

worst-case regret 5,6 M€

Legend: darker = lower worst-case regret · power in % of grid connection