

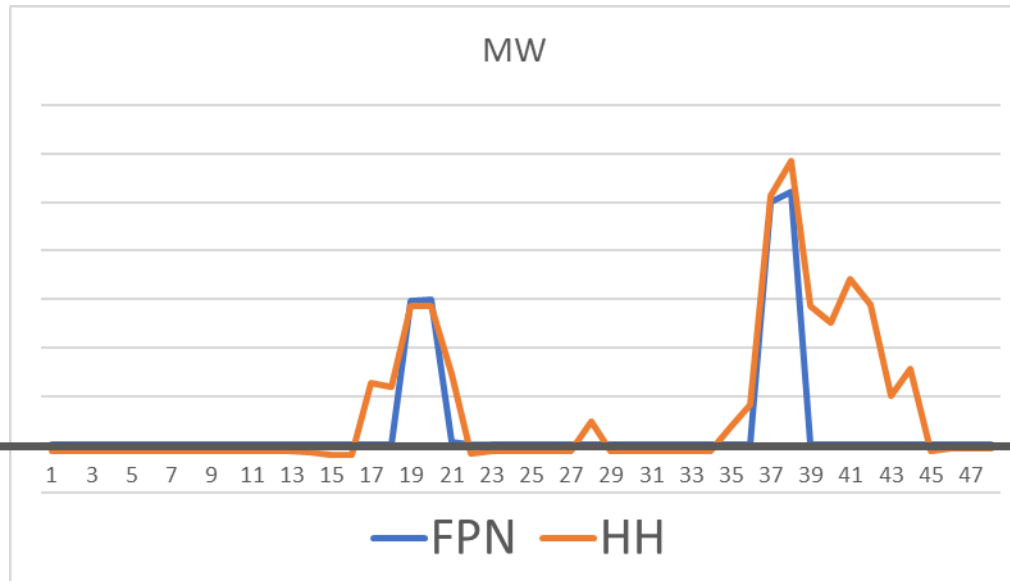


CMP393 – Alternative ALFs for Storage Operators

ALF calculation

Baseline ALF = aggregated **energy output** / capacity,
where energy output is Max (FPN, HH), floored at 0

Alternative ALF = aggregated **energy net output** / capacity,
where energy net output is HH, no floor is applied



Zero flooring
(used in the
baseline)

The results

Type	Power Station	Baseline	
		ALF	Alt ALF*
PS	Pumped Storage 1	5.89%	-1.24%
	Pumped Storage 2	10.12%	-3.66%
	Pumped Storage 3	4.26%	-1.87%
	Pumped Storage 4	11.56%	-0.76%
Battery	Battery 1	1.95%	-0.68%
	Battery 2	1.69%	-0.49%
	Battery 3	0.08%	-0.24%

* Negative value indicates net offtake of energy (importing from the grid) during the financial year

- For pumped Storage 1, its TNUoS tariff will decrease from £3.30/kW to £1.57/kW
- If the year round tariff >0, the alternative ALF will reduce the tariff for the storage project
- If the year round tariff <0, the alternative ALF will increase (or make less negative) the tariff for the storage project

Wider tariff calculation

- For electricity storage power station

Conventional Carbon*, e.g. Coal, CCGT, Biomass, Pump Storage, Battery



* The word “Carbon” here can be interpreted as “dispatchable”, as TNUoS does not consider the carbon intensity of generation technologies