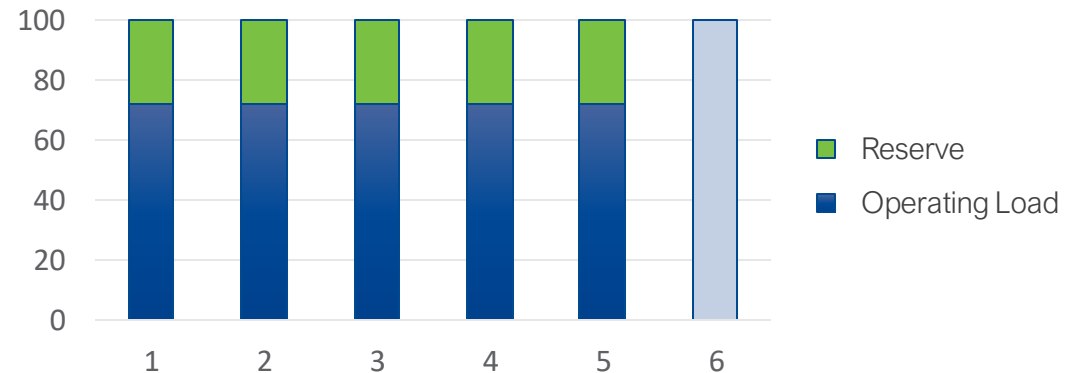


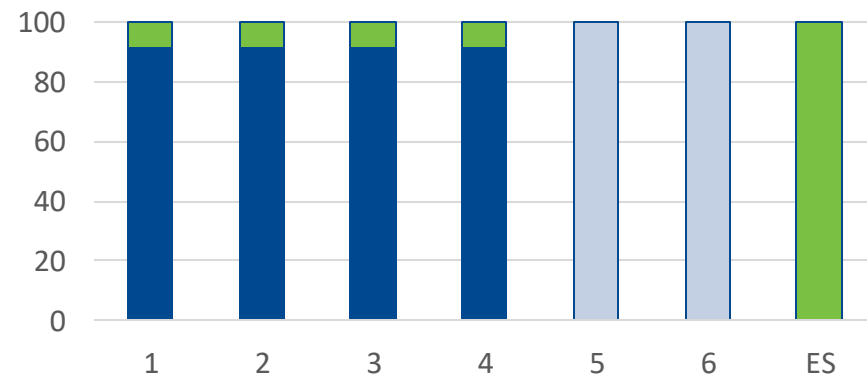
# Business Case for Battery Storage Spinning Reserve

- Base Case:
  - Run 5 engines at 72% capacity to maintain reserves
- Case 2:
  - Run 4 engines at 91% capacity and use ESS to provide spinning reserves
- Business case derives from:
  - Reduced fuel consumption due to engine efficiency increase and decrease in total run-time hours
  - Operating and maintenance expense reduction due to decrease in total run-time hours
  - Possibility for increase of generation

**Case 1: Engines**



**Case 2: Engines + Storage**

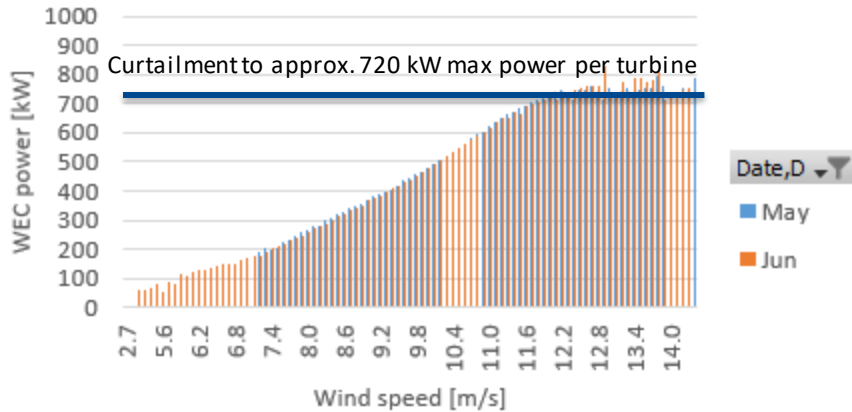


# Bonaire wind power curve analysis:

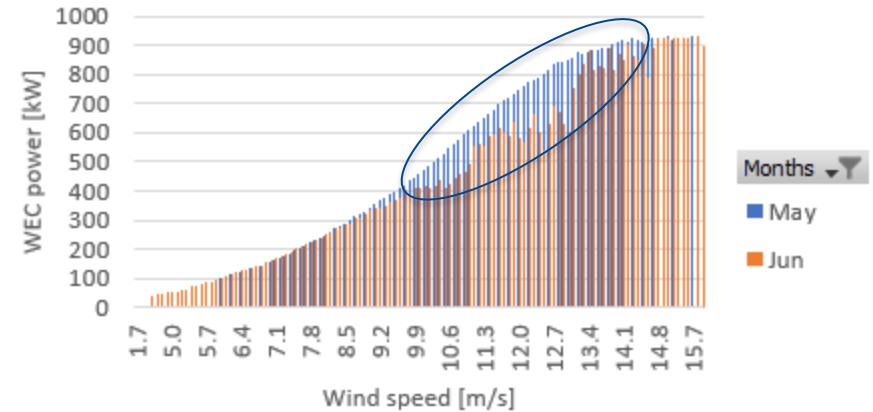


Power curve analysis for May and June 2019 vs same period of 2018 confirm successful removal of wind curtailment and performance of the plant as per the theoretical power curve of Enercon

2018 May and June power curve analysis



2019 May and June power curve analysis



- May 2019 vs May 2018
  - May comparison reveals full unrestricted operation of the WECs according to the Enercon Power curve. (blue lines on both charts above)
- June 2019 vs June 2018
  - June comparison confirm May results, with deviation of optimal curve due to manual curtailment of the wind park per planned commissioning activities related to Enercon PMS phase out. (orange lines on both charts above)