MOD_20_21 and other undo scenarios

Example of overpayment to Generator unit

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Reason for overpayments - Background

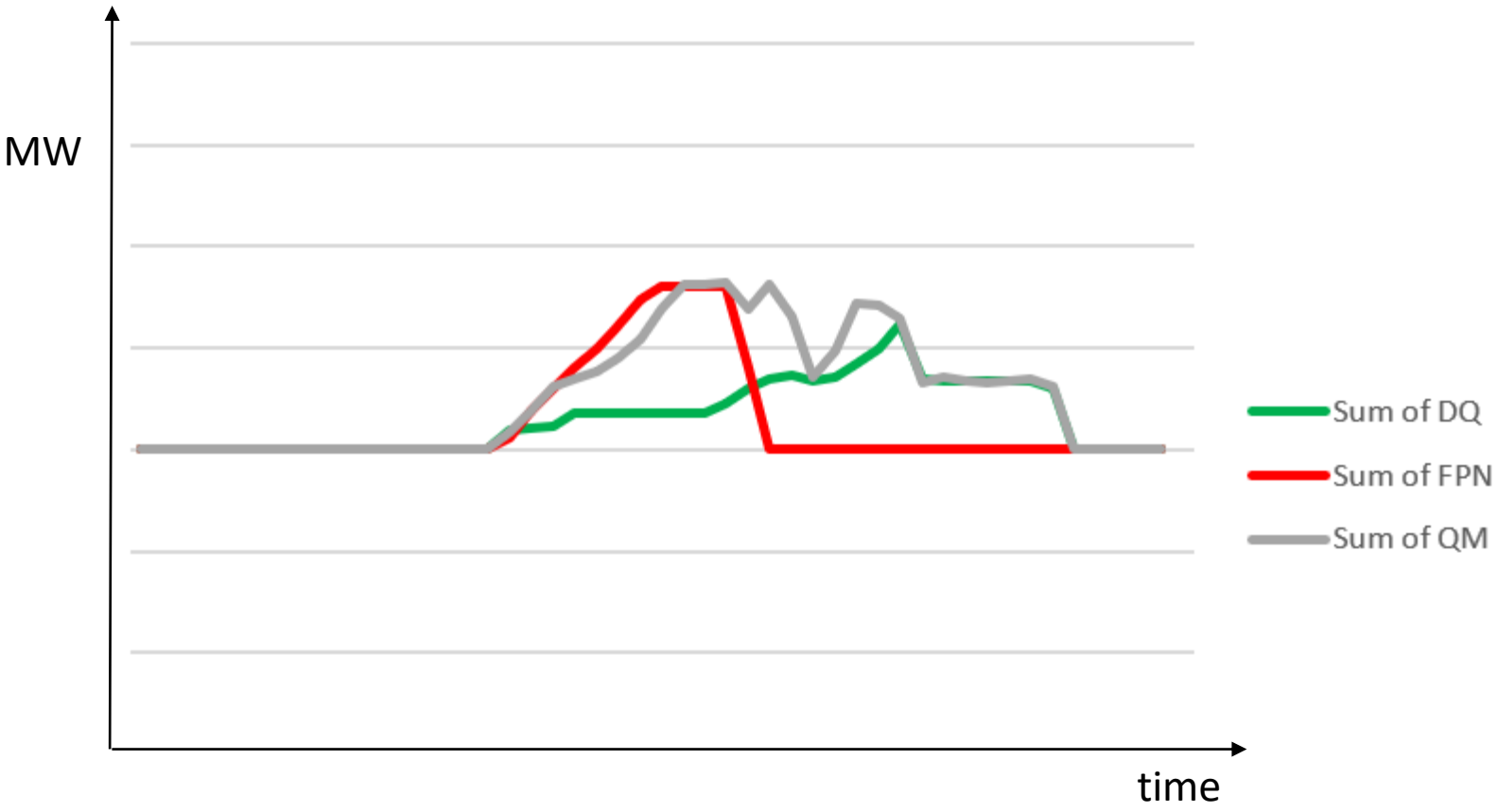
With regards to the incorrect UNDO scenarios, both Underpayments and overpayments to Generator Units can be observed. Overpayments can occur for several reasons:

- Large Inc coupled with high prices;
- Issue protracted for a long periods due to TODs lengthy characteristics;
- Issue protracted for a long periods due to DIs level staying below MINGEN;

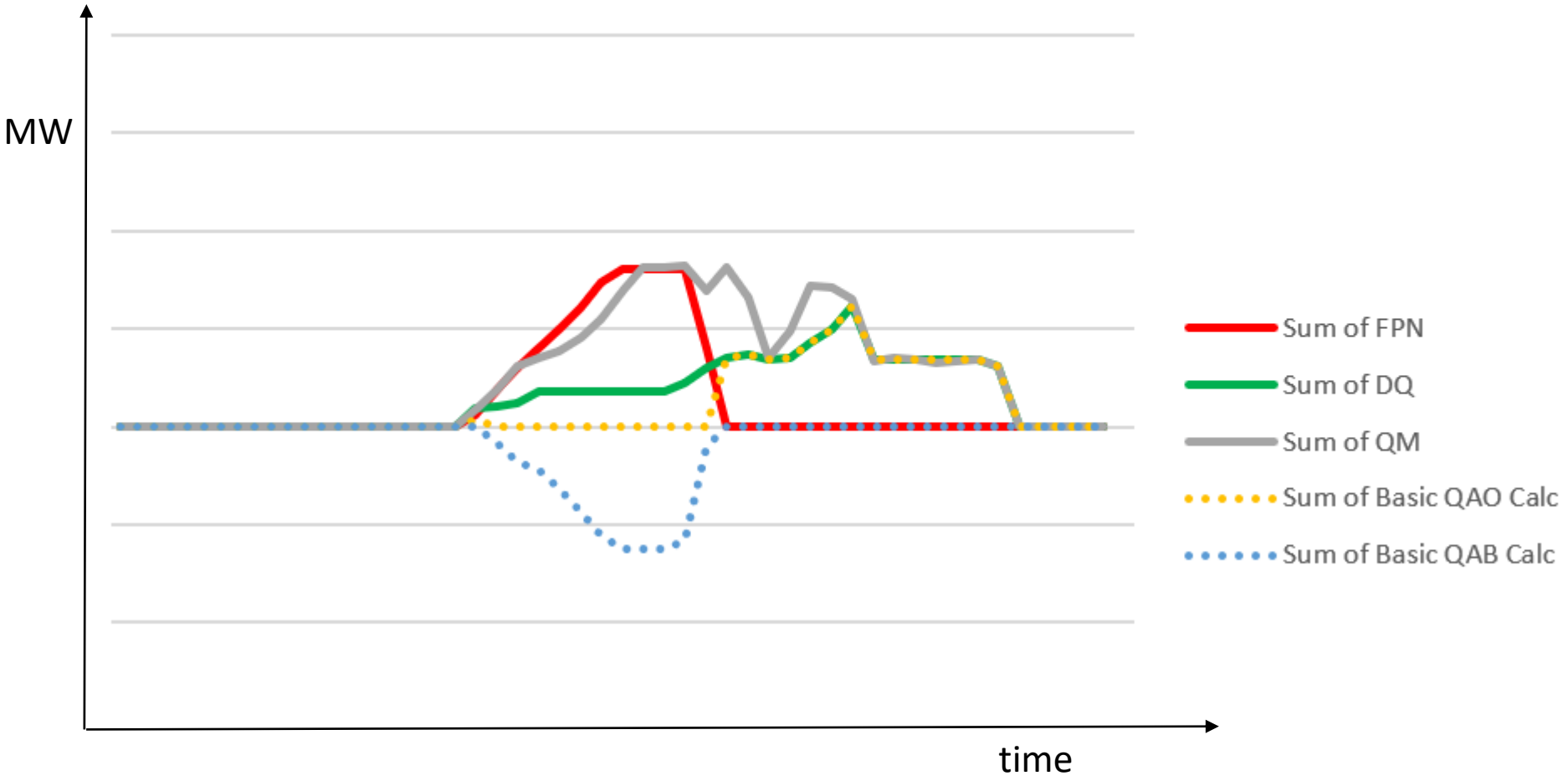
Overpayments occur more frequently in scenarios 1(**'SYNC with MWOF undo to level below MSG before reaching MSG'**) and 4 (**'SYNC with DESY before reaching MSG'**)rather than 3 (**'DESY with SYNC after reaching zero before Min Off Time'**);

The current estimated materiality, calculated a total of approximately 1.7m of underpayments and approximately 450k of overpayments over a total of 31 cases (3 in 2018, 2 in 2019, 7 in 2020 and 19 in 2021).

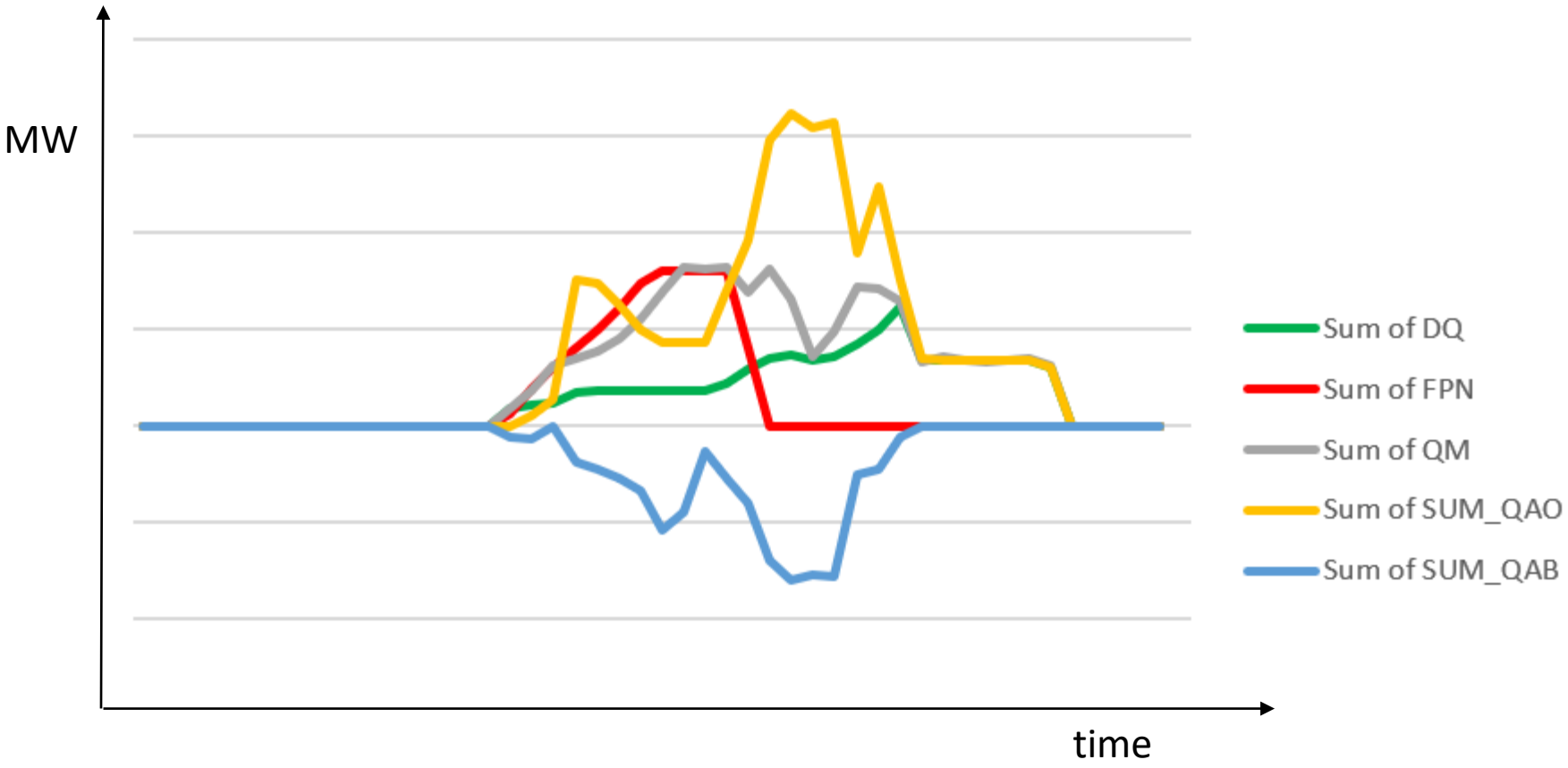
Example of Sceario 1 Overpayment - Inputs



Example of Scenario 1 Overpayment – Estimated Correct Outputs



Example of Scenario 1 Overpayment – System Outputs



Identifying the scenarios – What to look for

With regards to the incorrect UNDO scenarios, please make sure that form now on they are submitted as formal queries in order to be rectified (either manually or via the system change).

To help you identify these cases please note these will occur in case:

- Dispatch Instructions below Min Gen are submitted before Min Gen is reached and/or before Min On Time is satisfied:
  - This results in inconsistent BOAs i.e. QAO and QAB at the same time which are typically too large. This can persist for a number of periods;
- Dispatch Instructions are submitted before Min Off time is satisfied:
  - This typically results in Error in Slope and can be identified where no BOAs are produced.