

Interactive comment on “Optimal scheduling of the next preventive maintenance activity for a wind farm” by Quanjiang Yu et al.

Quanjiang Yu et al.

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Dear Professor Miriam Noonan,

Thank you for your valuable comments. Here I reply to your comments one by one.

Comment 1: Line 13 – Define CM as corrective maintenance Response 1: Yes, I am changing ‘Among other things, this analysis reveals a dramatic cost reduction achieved by the NextPM model as compared to the the pure CM strategy.’ to ‘Among other things, this analysis reveals a dramatic cost reduction achieved by the NextPM model as compared to the the pure corrective maintenance strategy.’

Comment 2: Line 41 – Would ‘mobilization costs’ work better than ‘set-up costs’? Response 2: Yes, I am going to change ‘set-up costs’ to ‘mobilization costs’.

Comment 3: Line 88 – OM isn't clearly defined in the paper – might be worth clearly stating as 'operational maintenance' Response 3: On line 85: 'the possibility of a component failure before the planned PM, followed by opportunistic maintenance (OM) activities.' OM is defined as opportunistic maintenance. Hopefully this answers Comment 3.

Comment 4: Line 203 – May be worth stating this relates to onshore wind farms – 20 years seems low for an offshore project. Response 4: Yes, I am changing 'The lifetime of the wind turbine is assumed to be 20 years, which is the typical case in the industry now, according to Ziegler et al. (2018).' to 'The lifetime of the wind turbine is assumed to be 20 years, which is a typical life length for onshore wind farms, according to Ziegler et al. (2018).'

Best regards Quanjiang Yu

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