

Condition Monitoring to Boost Sustainable Operation and Maintenance

Michael Aufreiter All-Energy 2023/May 11th

Content



Life Cycle

What is necessary to get sustainable



Maintenance Journy

Possibilities of maintenance and their costs



Condition Monitoring



Challenges and innovation



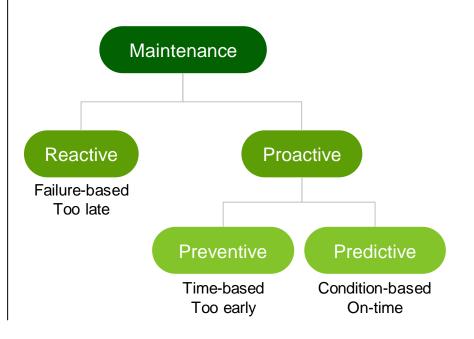
Sustainability in O&M

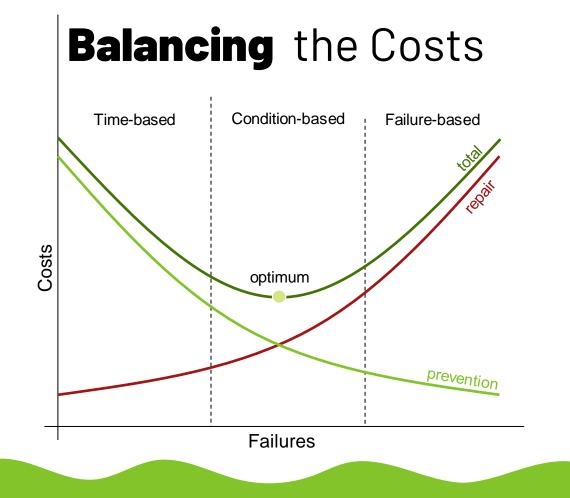
How are sustainability and O&M linked together





Maintenance Journey





It's not only money

The importance of non-monetary parameters must increase significantly.

Condtion Monitoring

01

Indicators

Select significant conditions

02

Acquisition and Analysis

Collect data and find correlations

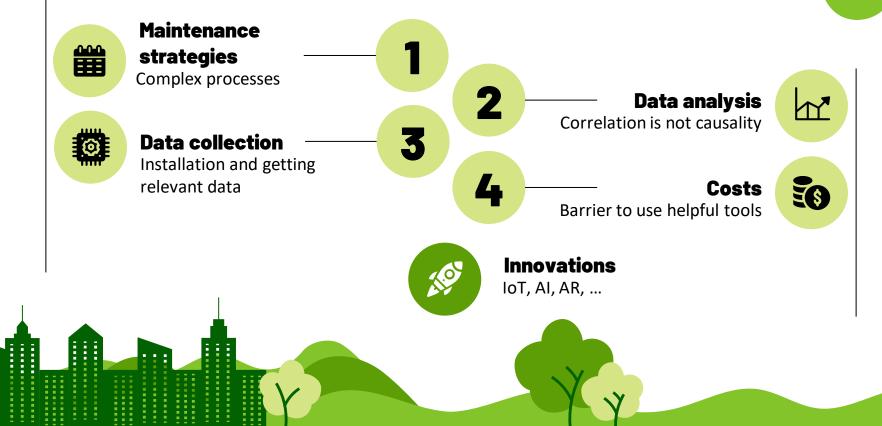
03

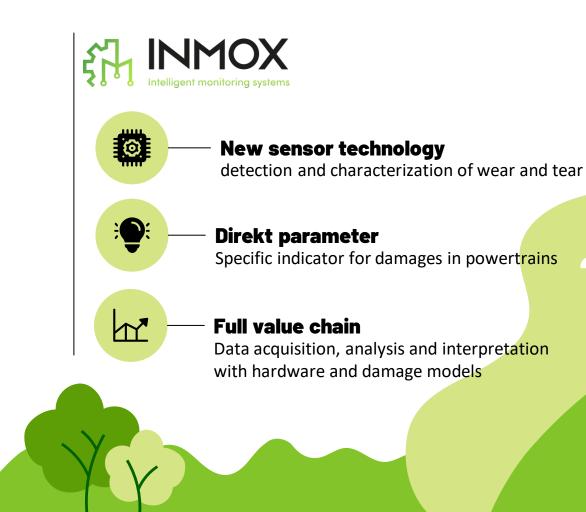
Interpretation

Decide whether or which maintenance is needed

Action Initiation of maintenance steps

Challenges and Innovations of CM



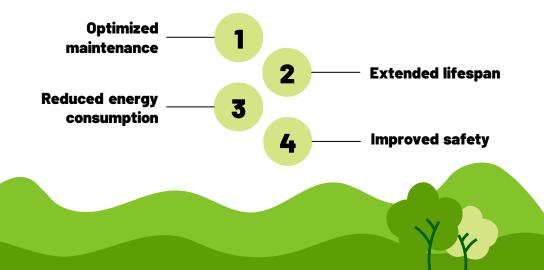


Sustainability in O&M





Predictive maintenance could reduce maintenance costs by up to 40% and can reduce downtime by up to 50%. Estimated economic impact of nearly \$630 billion per year.



Conclusion

Optimized maintenance is key to sustainability

Don't stuck at the status quo

Non-monetary parameters will be necessary for our future



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