# Enhancing Continuous Online Monitoring of a Power Generators for an industrial site





# Who we are

- Optmonitor provide monitoring and data analysis solutions to help asset managers and prevent unexpected failure.
- Optmonitor is part of Machinemonitor Group.
- Machinemonitor provides specialized engineering services from commissioning to end of life of critical electrical assets.







# What we will talk about today

- Site overview
- Continuous online monitoring challenges
- Proposed solution
- Added values to end user





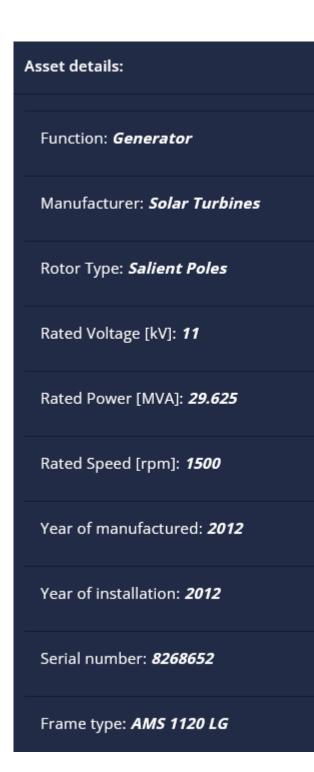
- Manufactory facility SA
- #1 Generator
- #2 Motors
- #7 Dry type Transformers



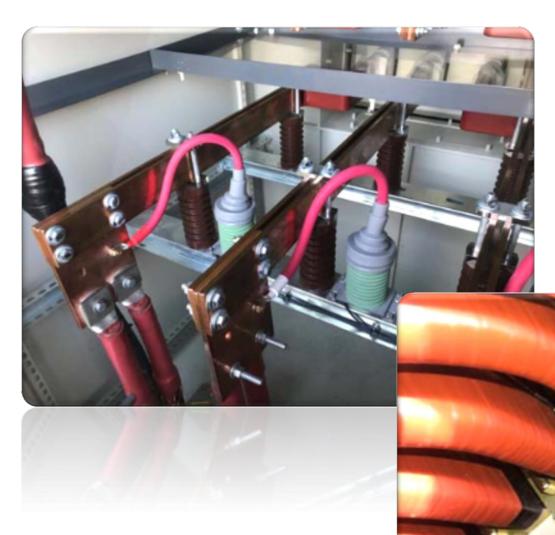


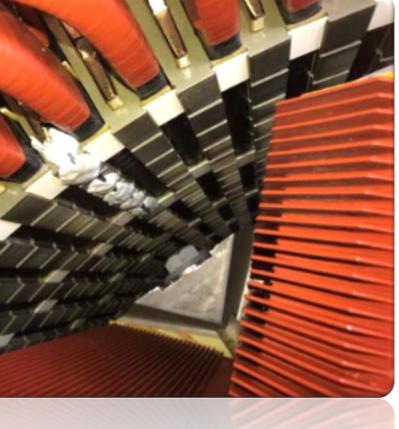
## Site description

## Generator online continuous monitoring









# **Generator online continuous monitoring**



- **IRIS Guard System:**
- Online PD monitoring
- Rotor flux monitoring
- **Operating in stand-alone mode**

# **Challenges faced by the customer**

# 1. Data to be downloaded/review periodically



2. No specialized knowledge available







What do we do about it?

# 1. Data to be downloaded/review periodically





2. No specialized knowledge available



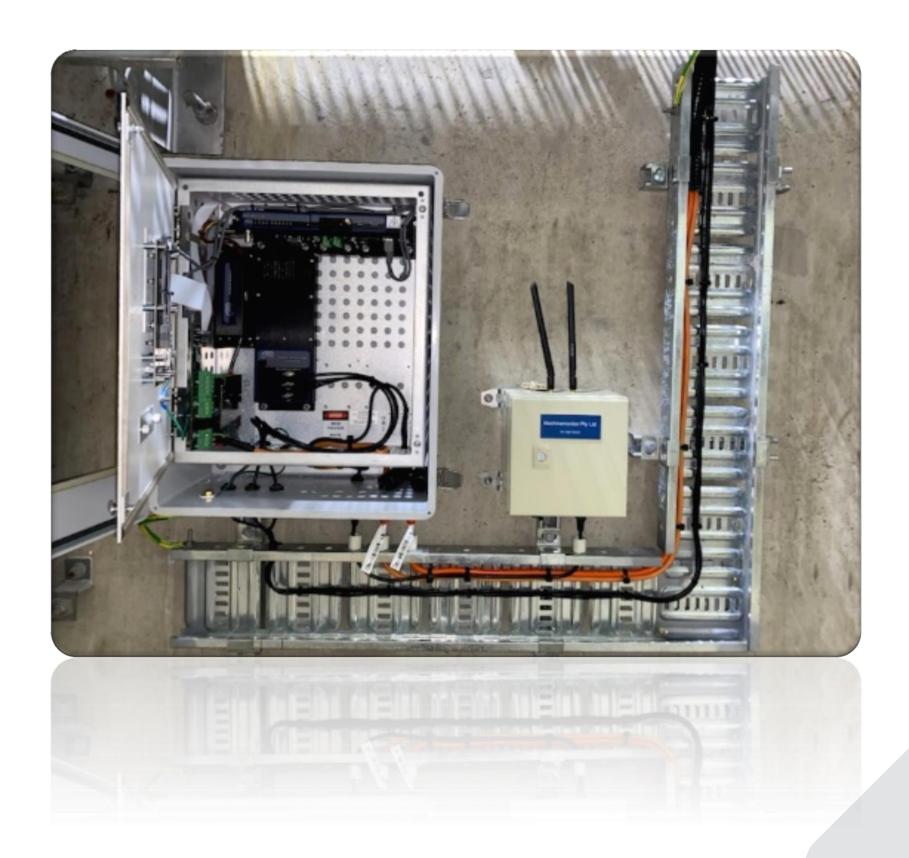




### **Remote monitoring:**

• Data transfer via 4G

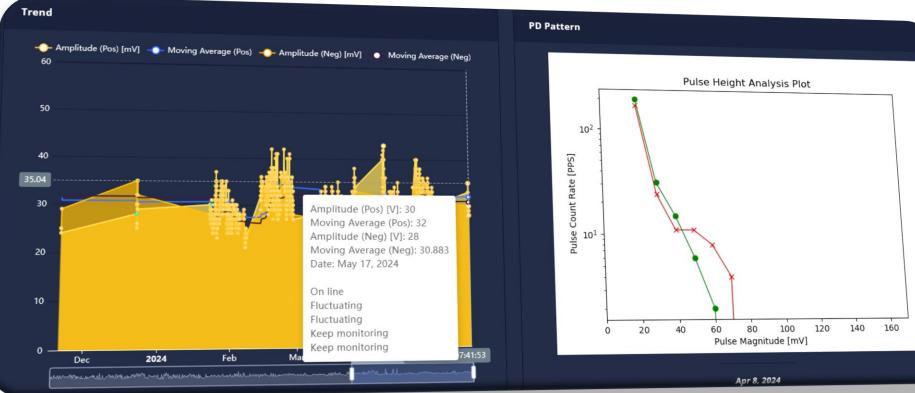


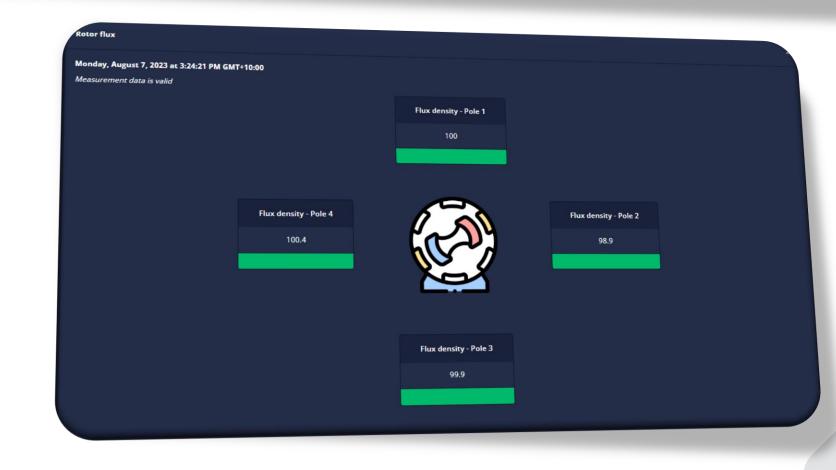


## Proposed solution – 1 and 2

### **Remote monitoring:**

- Data transfer via 4G
- Live data trend







# **Proposed solution – 1 and 2**

### **Remote monitoring:**

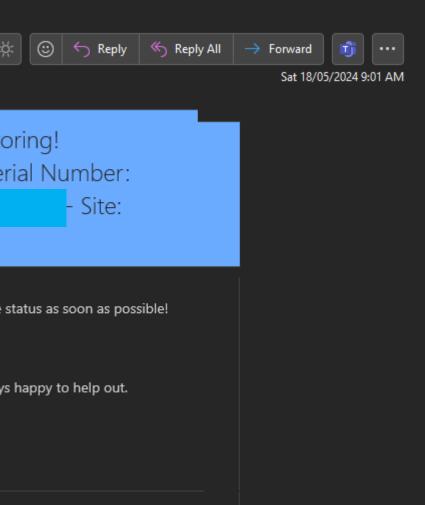
- Data transfer via 4G
- Live data trend ullet
- Automatic alarms sent directly to expert

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noreply@mac To Luca Garagna	hinemonitor.com mi	××
	There is Alarm in Continuous Moni	ito
	7 - S	er
	Customer:	
	There is IRIS PD alarm on the asset. Please check the machin	ne s
	Click here to go to OptMonitor - Continuous monitoring.	
	If you have any questions, just reply to this email. We're alw	ays
	Sincerely, machinemonitor® engineering team	

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# **Proposed solution – 1 and 2**



What do we do about it?



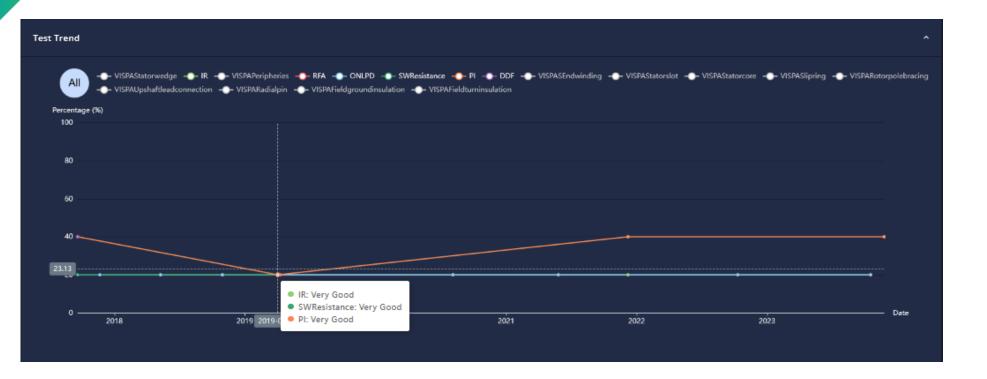




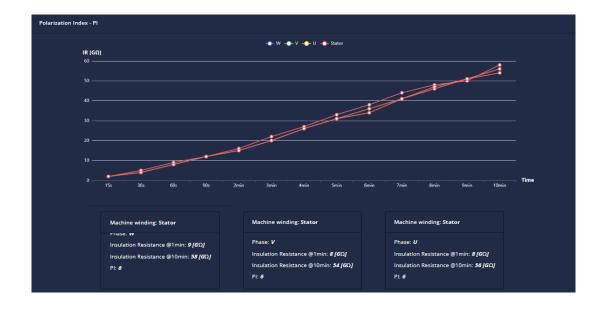








# platform:



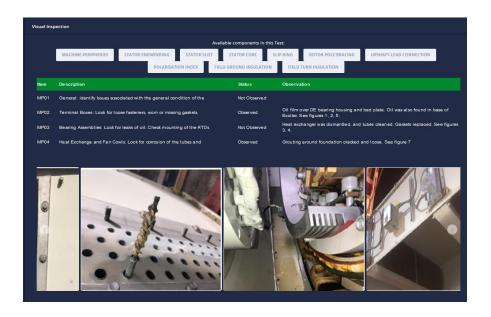


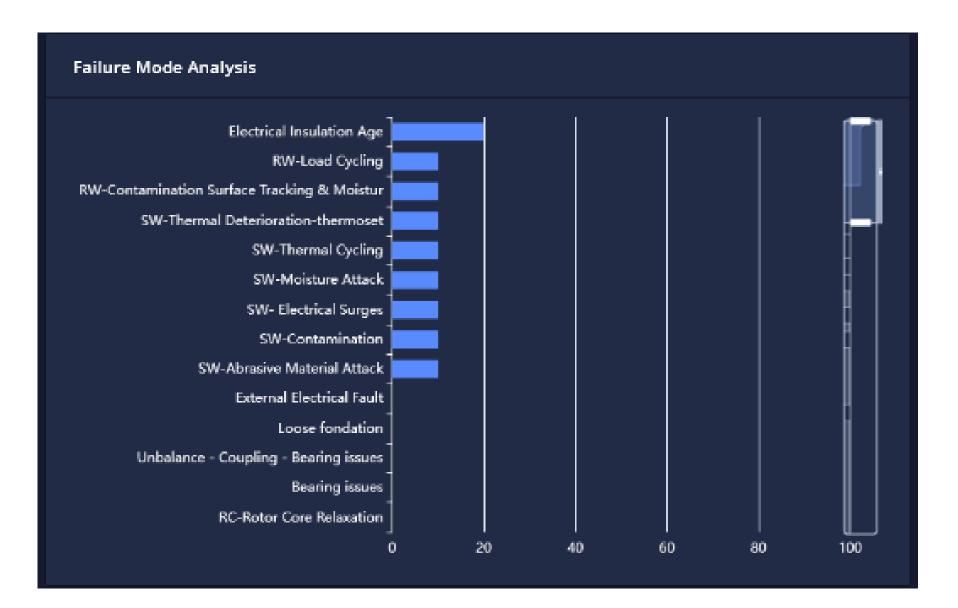


## **Proposed solution – 3**

# **Integration to comprehensive**

## • Offline test results





# platform:

- Offline test results
- Risk assessment



## **Proposed solution – 3**

# **Integration to comprehensive**

What do we do about it?

# 1. Data to be downloaded/review periodically



2. No specialized knowledge available











Added values to end user

Elimination of complexity

Improved risk assessment

Organized tests data





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# Thank you

# **RiskM**•nitor PRO



# Do you like our Risk Assessment?

You can generate it for minutes!



### You can generate it for your machine in few