

Paris Session 2022



Digital maintenance

SC B3 PS3 Q1

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FURNAS

Group Discussion Meeting

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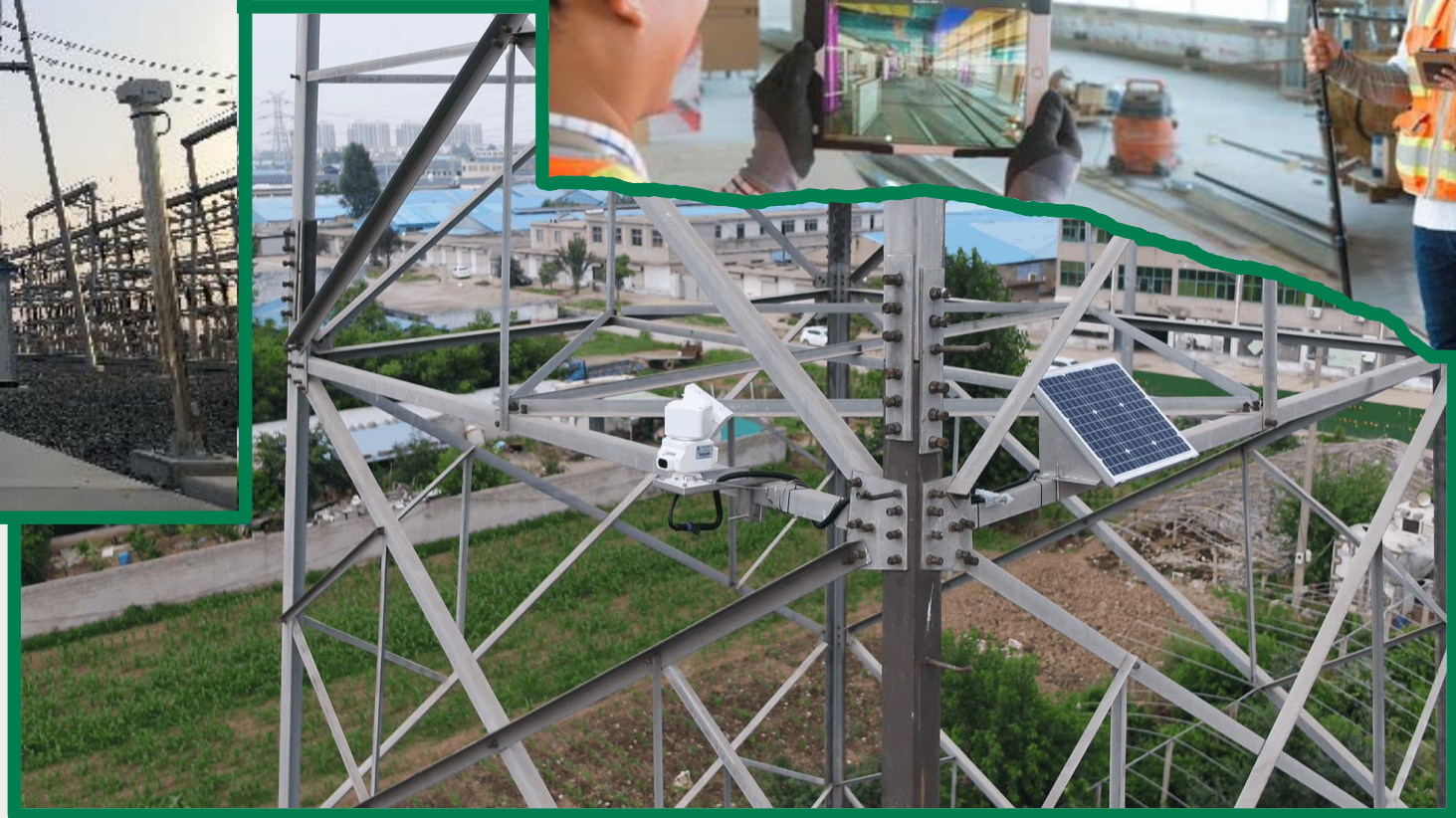
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Question PS3.1 What are the benefits of digital solutions like IoT-sensors, machine learning, artificial intelligence, drones, robots etc. for substation life cycle from planning to maintenance? Which measures are necessary to increase the acceptance of intelligent IoT-based power equipment in substations?

- With the progressive adoption of 5G communications by EPU, it will be easier to adopt various innovations in planning and maintenance in substations.
- Drones (picture) will be able to transmit in real time high resolution images with immense transmission rates to a processing platform with artificial intelligence applied to pattern recognition that will return, also in real time, with the analysis and suggestions for maintenance actions.
- Electrical equipment will be able to have IoT functions so that, with the use of augmented reality, field technicians will be able to be more accurate and faster in diagnosing faults and in the respective maintenance actions.
- And much more...
- Some reflections on these topics can be found in article ID187.

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• **5G+IoT+AR applied to maintenance and supervision**

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