

**CWIEME**  
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# Avoid Costly Shutdowns and Extend HV & MV Asset Lifespan with OptiFender – a Revolutionized Approach in Partial Discharge monitoring



# Today On Stage



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# Partial Discharge is a Common Reason for Power Transformer Failures

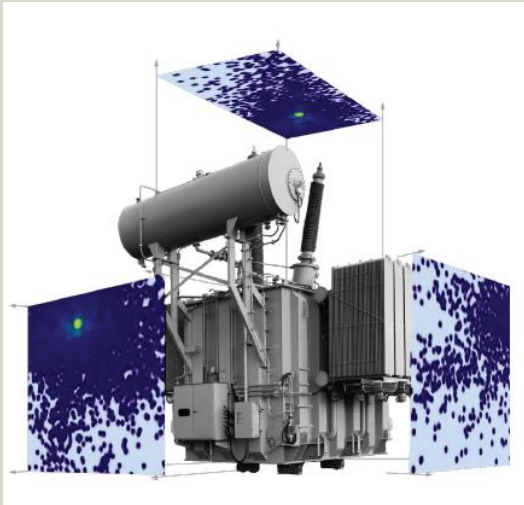


**Partial Discharge (PD) - an electrical discharge that occurs within the insulation of high-voltage electrical equipment, but it doesn't bridge the entire gap between two electrodes**

PD - an invisible threat for your HV & MV asset

PD creates partial sparks or arcs that damage the insulation

PD can generate harmful by-products such as gasses, acids, and moisture



# OptiFender – PD Monitoring Solution for Fast, Non-Invasive, 24/7 Asset Monitoring



## Immediate PD Localization in

- **Transformer**
- **HV Bushing**
- **Terminations**
- **Cable Joints**
- **Gas Insulated Switchgear (GIS)**



## Streams Proven PD Alarms to Operators 24/7

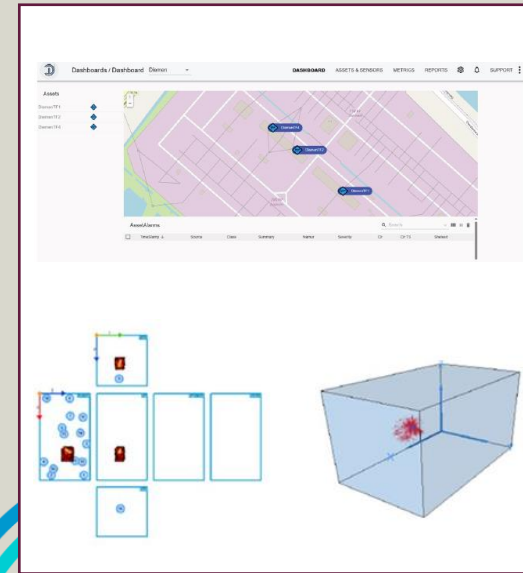


## EMI Immune, Passive Sensors, Non-Invasive Installation

## Hardware



## Software



## Deployment

**Service partners of Optics11 deploy OptiFender as part of their service package**



# Proven Results with OptiFender

- ③ **Precise Localization of PD Source**
- ③ **Optimized Maintenance Cost & Time**
- ③ **Enhanced Safety of Your Asset and Your Team**



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