

NORTH Protection Ltd Member of NORTH Group Activities Presentation

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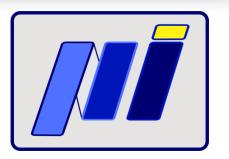
The Members of NORTH Group











NORTH Point Ltd., Parent Company of the NORTH Group

Phone: + 381 24 626262

NORTH Group Activity Area South Eastern Europe



26262

Phone: + 381 24

Regional Partners

Institute "Mihajlo Pupin", IMP Automatika Ltd, Belgrade, Serbia Logging Electronics Ltd, Skopje, Macedonia VibRoTeh Ltd, Zagreb, Croatia DIT Ltd, Tuzla, Bosnia and Herzegovina Mega Techno Ltd, Budapest, Hungary, EU Turboinstitute Ltd, Ljubljana, Slovenia, EU

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Global Partners

NORTH Instruments LLC, Roswell, Georgia, USA

MC-monitoring SA, Givisiez, CH

STI Vibration Monitoring Inc., League City, Texas, USA

Spectrum Instruments Ltd, Brighton, ON, Canada

Shanghai Sirui On-line Monitoring Technology Co., Ltd, Shanghai, CN

ARS – Advanced Reliability Services, Singapore, SG

EC Systems AMS Sp. z o.o. , Krakow, PL

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Major Clients of NORTH Group



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NORTH Measuring Division

Special Measuring Instruments Production Measuring/Test Devices Repair Calibration Devices Production Industrial Electronic Devices Production

NORTH CMS and NORTH Automation Division

SCADA/DCS Sistems Installations Industrial Protective Systems Assemling CMS Assemling and Commissioning CMS Maintenance and Repair

NORTH Protection Ltd Member of NORTH Group

The Activities Production of Special Measuring Devices, Monitoring/Protective Systems Assemby, Commissioning and Repair

Entities NORTH Measuring Division NORTH CMS Division NORTH Automation Division

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The Activities Special Measuring Instruments Production Measurement/Test Devices Repair

Calibration Devices Production Industrial Electronic Devices Producti

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NORTH Measuring Division

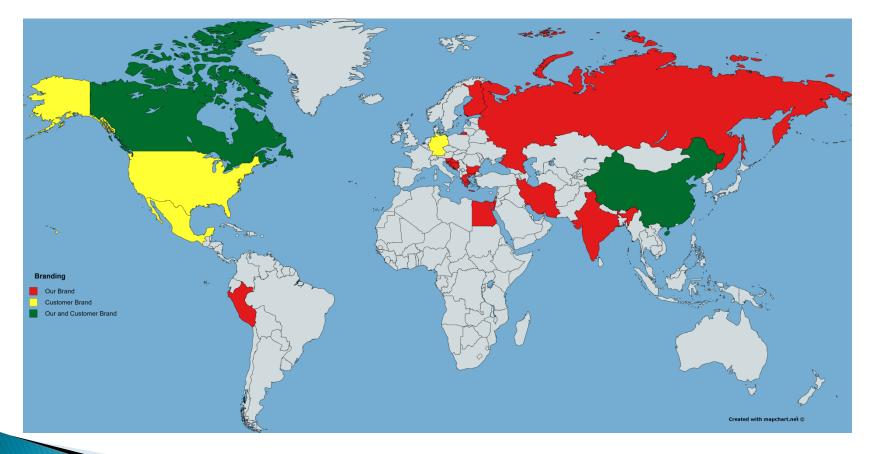
Products Line

Human Vibration Meter Calibrator Accelerometer Simulator Multi-Sensor Simulator IEPE Sensor Checker TEDS Interface and Editor Proximity Probe Checker Portable Dynamic Signal Analyzer USB Portable Sound/Vibration Analyzer Signal Conditioner for Proximity Probes Signal Conditioner for IEPE Sensors Multichannel Tuning Monitor for Proximity Probes **NORTH Measuring Division** Special Measuring and Test Equipment

Equipment for **Installation, Commissioning and Maintenance** of **Condition Monitoring Systems (CMS) MSS-1010 Multi-Sensor Simulator MSC-1015** Multi Signal Calibrator **SC-100 IEPE Sensor Checker PC-100 Proximity Probe Checker**

NORTH Protection Ltd

NORTH Measuring Division Overview of global market



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MSS-1010 Multi-Sensor Simulator





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NORTH Measuring Division Latest Products



MSC-1015 Multi Signal Calibrator





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PCA 1015-NP

Multi Sensor Calibrator (Branded by Vibro-China Ltd, China)



PC-100 Proximity Probe Checker







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PC-100

Proximity Checker (Branded by Spectrum Instruments Ltd, Canada)



SC-100 IEPE Sensor Checker

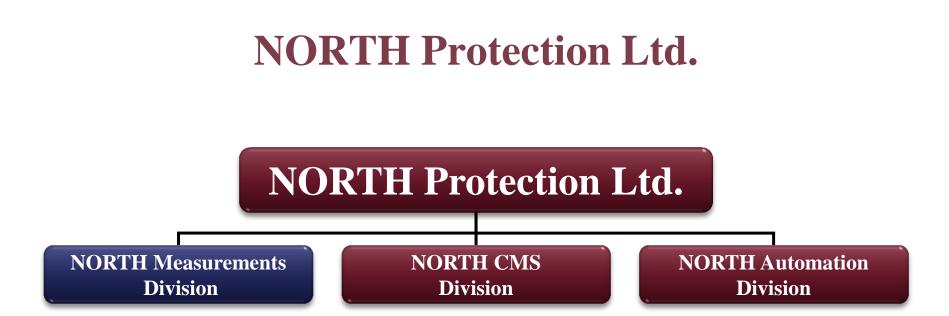






RSS-100 Rotor Speed Simulator





The Activities SCADA/DCS Sistems Installations Industrial Protective Systems Assemling CMS Assemling and Commissioning CMS Maintenance and Repair

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Electric Power Industry of Serbia "Termoelektrane Nikola Tesla" Obrenovac, RS "Kolubara A" TPP, A5 Unit, 110 MW

Condition Monitoring/Protection Systems for Smoke Fans

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Electric Power Industry of Serbia "HE Đerdap" Kladovo, RS "Vlasinske HE" "Vrla 1" HPP, 1A, 1B, 1C and 1D Units

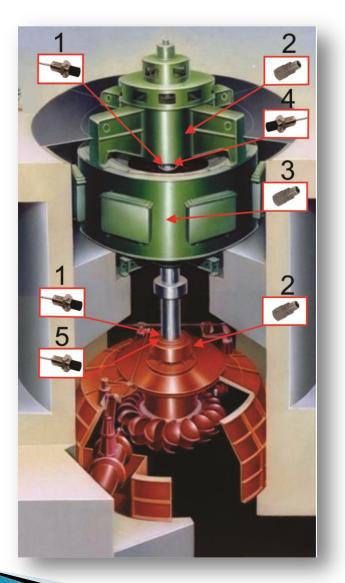
Condition Monitoring/Protection Systems for Hydro Turbine Generator Sets

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Legend

1. Measurement Line of Relative Shaft Vibration, ISO 7919-5

2. Measurement Line of AbsoluteBearing Housing Vibration, ISO10816-5

3. Measurement Line of Absolute Stator Core Vibration

4. Measurement Line of Rotor Axial Position

5. Measurement Line of Rotation Speed and Key Phasor



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Electric Power Industry of Serbia "HE Djerdap" Kladovo, RS "Vlasinske HE" "Vrla 2" HPP, 2A and 2B Units

Condition Monitoring/Protection Systems for Hydro Turbine Generator Sets

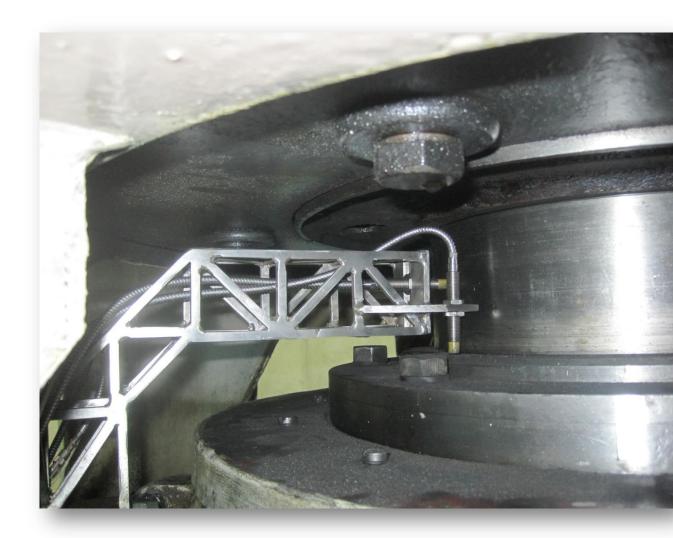
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Electric Power Industry of Serbia "Drinsko-limske HE" B. Basta, RS "Elektromorava" Cacak "Ovčar Banja" HPP, A1 and A2 Units

Condition Monitoring/Protection Systems for Hydro Turbine Generator Sets

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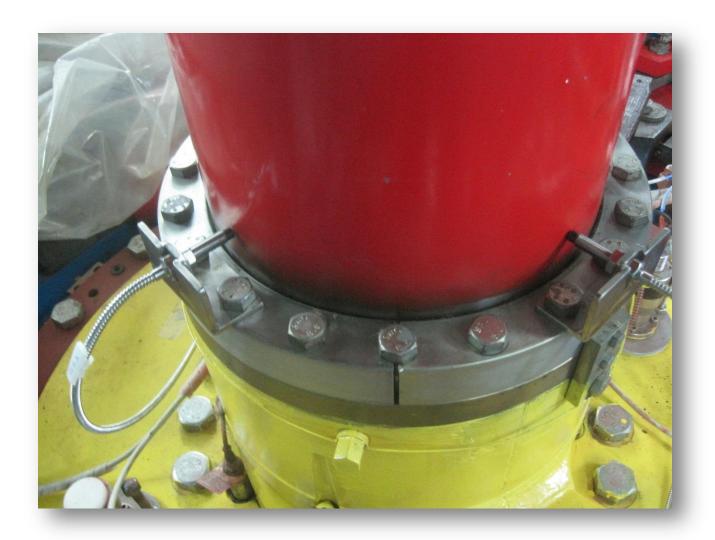
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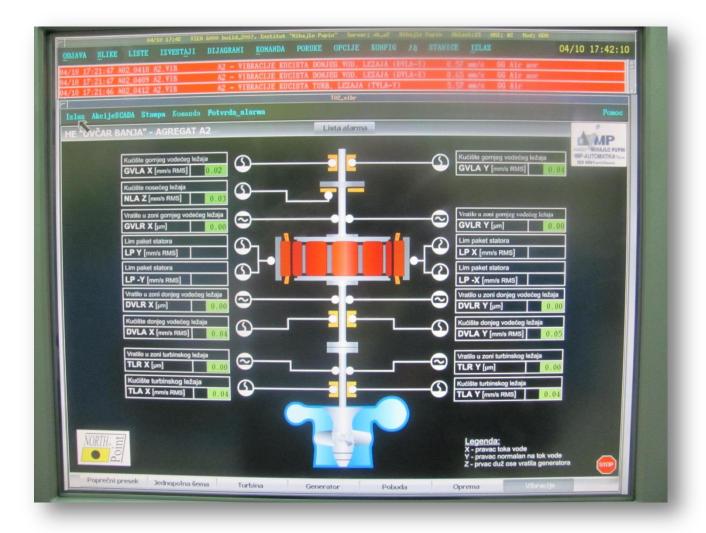


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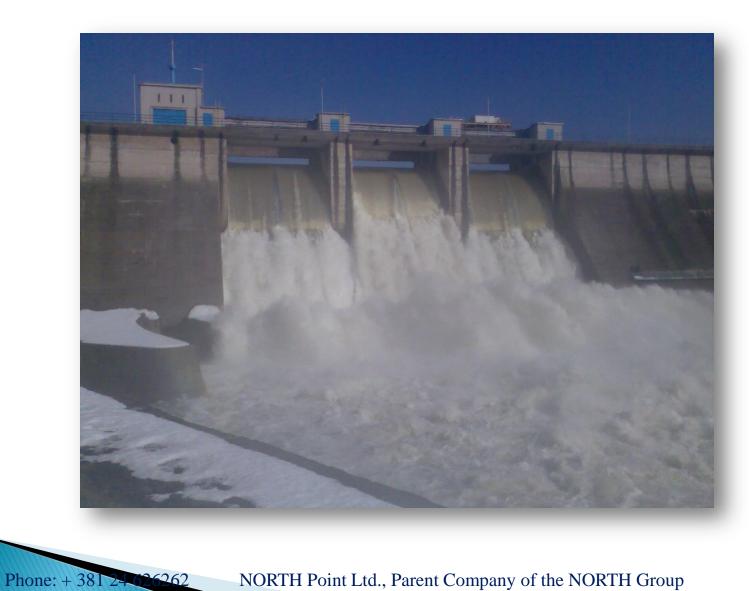


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Electric Power Industry of Serbia "Drinsko-limske HE" B. Basta, RS "Elektromorava" Cacak "Medjuvrsje" HPP, A1 and A2 Units

Condition Monitoring/Protection Systems for Hydro Turbine Generator Sets

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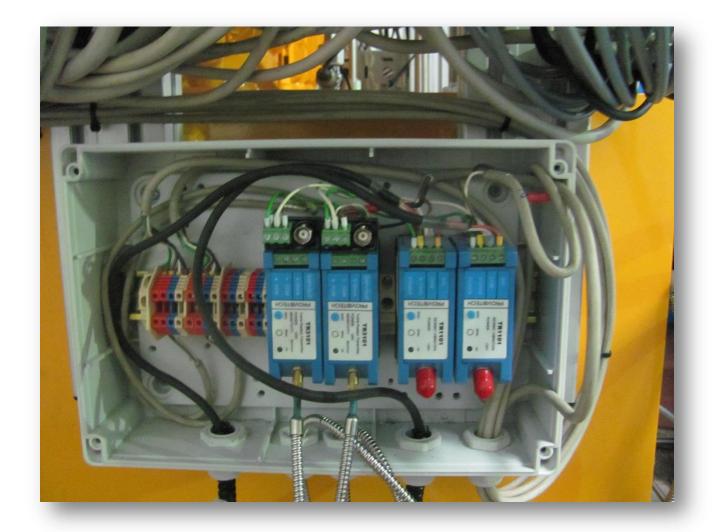


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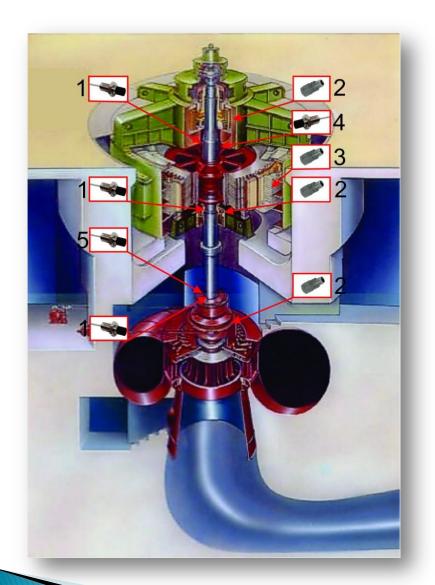


Electric Power Industry of Serbia "HE Djerdap" Kladovo, RS "Vlasinske HE" Surdulica "Vrla 4" HPP, 4A and 4B Units

Condition Monitoring/Protection Systems for Hydro Turbine Generator Sets

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Legend

1. Measurement Line of Relative Shaft Vibration, ISO 7919-5

2. Measurement Line of AbsoluteBearing Housing Vibration, ISO10816-5

3. Measurement Line of Absolute Stator Core Vibration

4. Measurement Line of Rotor Axial Position

5. Measurement Line of Rotation Speed and Key Phasor



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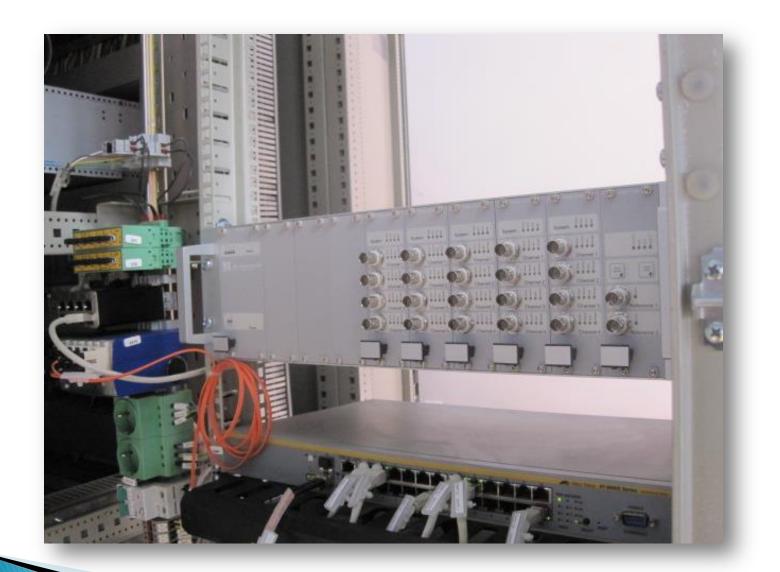




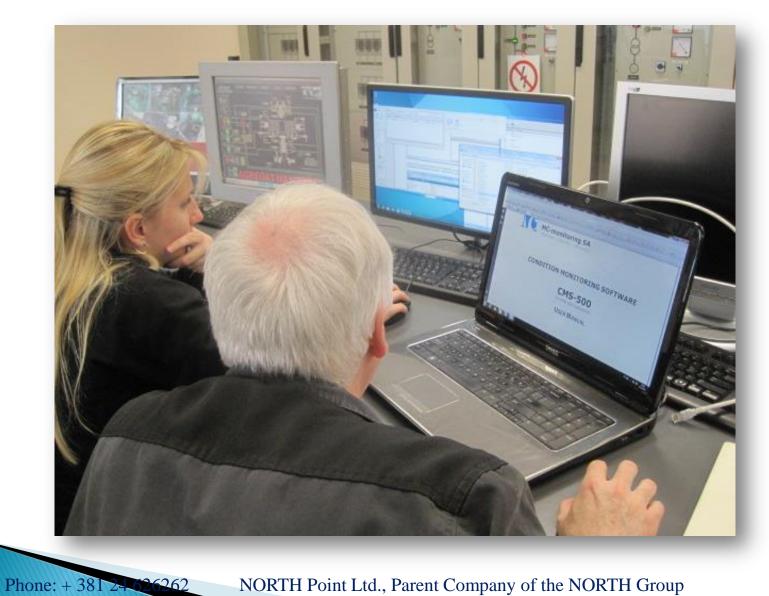
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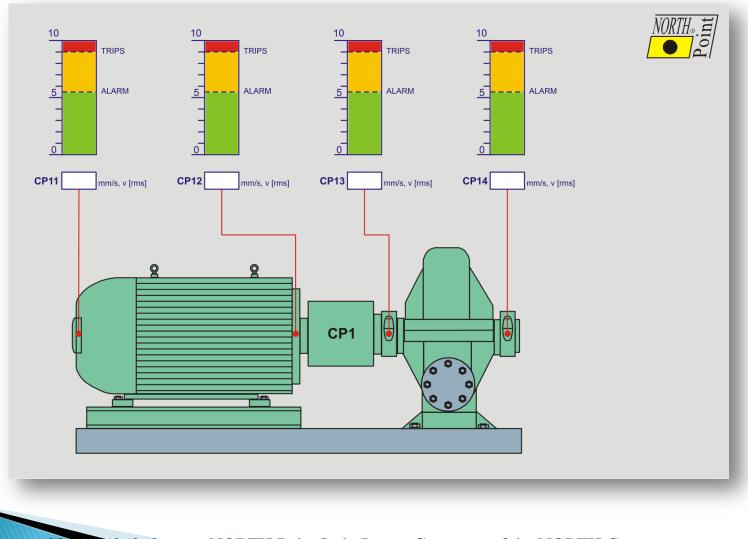


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Public Enterprise "Suboticka toplana" Subotica, RS

Vibration Protection System for Pumps and Fans

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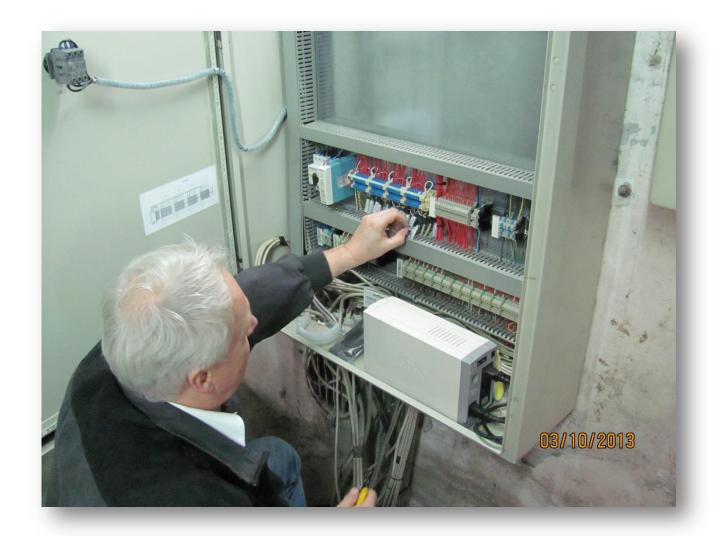


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Phone: + 381 24

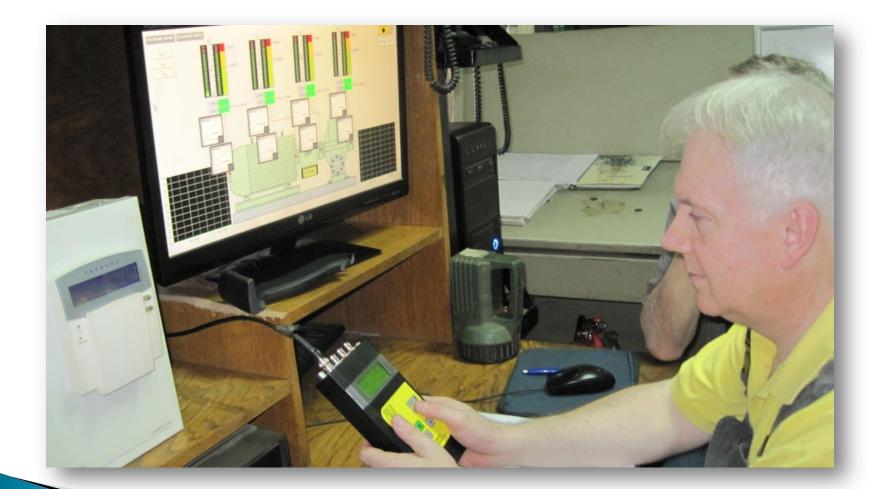
NORTH Point Ltd., Parent Company of the NORTH Group







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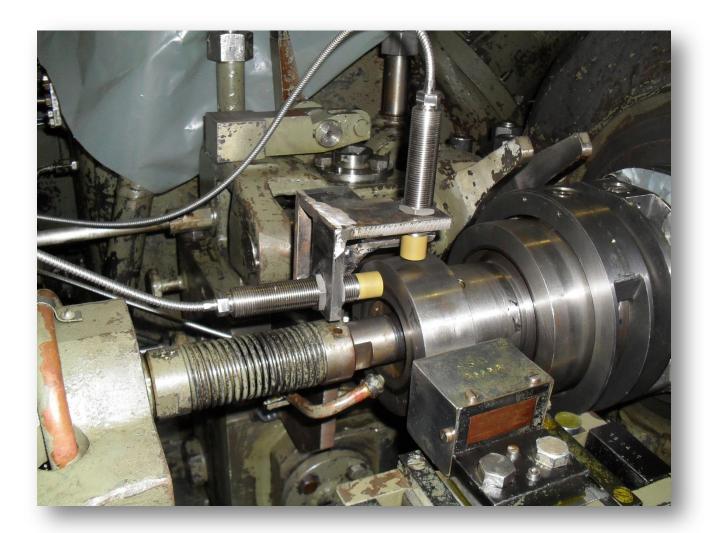
Electric Power Industry of Serbia "Panonske elektrane" Novi Sad, RS "TE-TO Novi Sad" TPP

Condition Monitoring/Protection System for Thermal Expansion

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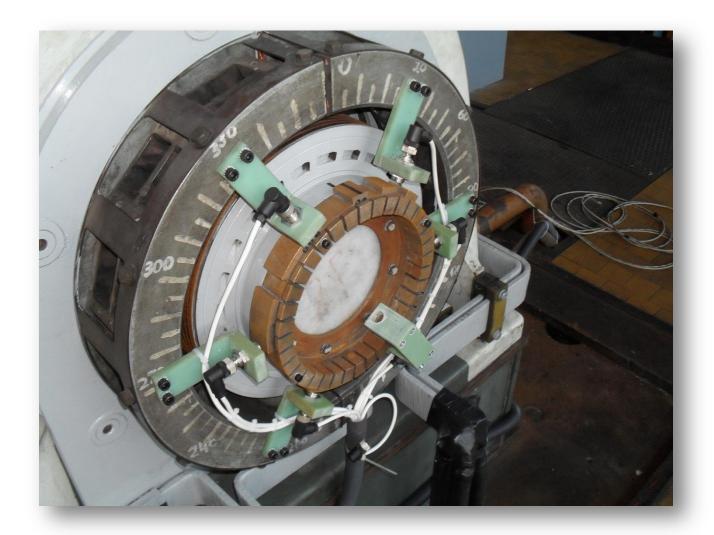




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Public Enterprise "Novosadska toplana" Toplana "Zapad" Novi Sad, RS

Vibration Protection/Diagnostic System for Pumps and Fans

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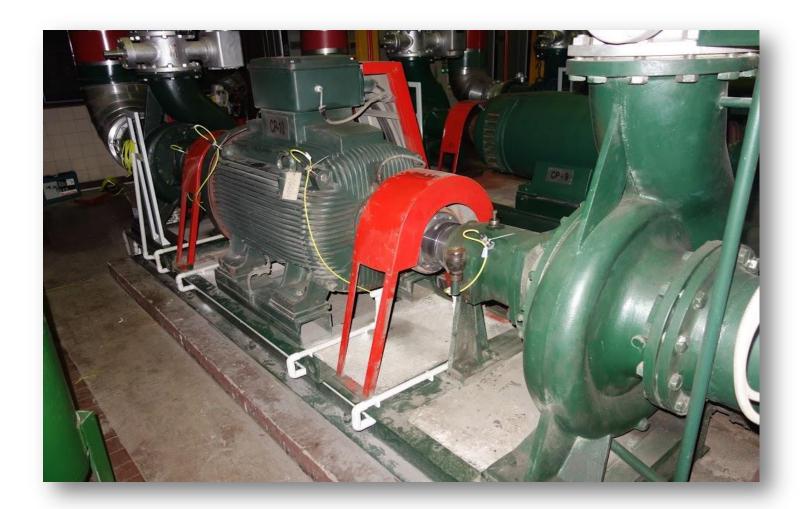








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Thank You for Your Attention!



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