Nuclear Plant Digitalization: Market Overview

NUCLEARENERGY INSIDER

In some places **NPP operating costs have risen by 30%** in the last few years.

30%

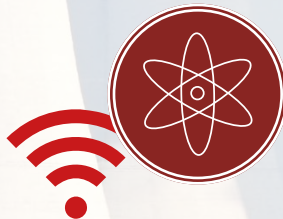The industry **invests about $7.5 billion per year** in maintenance and upgrades of the plants

PREDICTIVE ANALYTICS

edf

When EDF implemented predictive maintenance across their nuclear and fossil fuel generation fleet, **a single catch saved the company over $1 million**

AEP AMERICAN ELECTRIC POWER   **TATA POWER**

At American Electric Power, the company **saved more than $20 million through Industrial IoT**, and Tata Power in India had a gas turbine early warning catch that **saved nearly $300,000**

RECORDS & CONFIGURATION MANAGEMENT

The IAEA Incident Reporting System (IRS) shows that on average **25% of recorded events** could be **caused by configuration errors or deficiencies**

CM **maintains consistency** between the design and licensing basis requirements, the physical configuration and the configuration information.

CYBER SECURITY

In 2016, hacking cost the world **over $450 billion** across all industries

$450bn

Companies who file for an application to operate a nuclear reactor **have to submit a cybersecurity plan to NRC**

Nuclear plant safety systems are **isolated from the internet** – industry cyber security programs have been in place **since 2008**

INSTRUMENTATION & CONTROLS

Operating plants are transitioning I&C equipment from analog to digital. Drivers include:

Ageing & obsolete equipment

Negative experiences with digital I&C replacements

New plants will be 'all digital'

2nd Annual
Nuclear Plant Digitization Conference 2017

13-14 November
The Hilton City Center, Charlotte NC

Digital innovation to deliver competitivity priced nuclear power

North America's number one nuclear plant digitalization conference with over 250 key decision makers and industry leaders

Top speakers:

Exelon. | Southern Nuclear | DUKE ENERGY | Bruce Power | Luminant

ONTARIO POWER GENERATION | Fortum | STP Nuclear Operating Company | Ameren

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