



How Cyber Attacks Impact Industrial Operations

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HOW CYBER ATTACKS IMPACT INDUSTRIAL OPERATIONS

Recent years have seen a rise in OT system shutdowns due to ransomware and other attacks

2017

JUNE - Maersk container shipping
Attack: NotPetya
Damages: Reported losses of \$1.3B USD due to six days of

JULY - Middle East Refinery
Attack: TRITON/TRISIS
Damages: \$50M/day in lost production

MARCH - Norsk Hydro
Attack: LOCKERGOGA
Damages: \$40M, aluminum plants shut down, smelters switched to manual control

2019

FEBRUARY - European wastewater facility
Attack: cryptocurrency mining
Damages: Disabled HMI

2018

MARCH - Ellsworth County water system
Attack: insider
Damages: : cleaning and disinfecting processes were shut down

NOVEMBER - Pilz, German automation supplier
Attack: Ransomware
Damages: halted operations for one week

DECEMBER - American Maritime Transportation regulated facility
Attack: RYUK Ransomware
Damages: 30 hours of

MARCH - Evraz Steel
Attack: Ryuk ransomware
Damages: shut down operations at six locations

JANUARY - Picanol Group
Attack: ransomware
Damages: 14 plants shut down for two weeks

2020

MAY - Bluescope Steel
Attack: ransomware
Damages: shut down production

JUNE - Honda
Attack: SNAKE ransomware
Damages: two automobile manufacturing plants shut down

JULY - XFAB German chip manufacturer
Attack: MAZE ransomware
Damages: shut down all 6 locations

JULY - Lion Brewerie
Attack: REvil ransomware
Damages: shut down nine plants

JUNE - Fisher & Paykel
Attack: NEFILIM ransomware
Damages: shut down

SEPTEMBER - Tower Semiconductor
Attack: ransomware
Damages: : shut down at least three fabs

NOVEMBER - SteelCase furniture manufacturer
Attack: RYUK ransomware
Damages: forced shut down of all global factories for 2 weeks

DECEMBER - SolarWinds Orion
Attack: Malware in security update
Damages: : investigations and repair at hundreds of OT sites

2021

JUNE - Colonial Pipeline
Attack: DarkSide ransomware
Damages: largest gasoline pipeline in NA shut down for six days - widespread gas shortages

JUNE - JBS Foods
Attack: ransomware
Damages: Australian and US operations halted for 5 days

MARCH - Molson Coors
Attack: ransomware
Damages: impacts brewery operations, production and shipments

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