# Unveiling Security Gaps in Industrial Control Systems

# and Critical Infrastructure

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**SUBMISSION TYPE**

30 minute presentation

**KEYWORDS**

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**ABSTRACT**

Industrial control systems (ICSs) are at the heart of our critical infrastructure: our power grids, gas pipelines, water and manufacturing systems. They make a very appealing target for hackers. In recent years we have witnessed an uprise in the number of hacking attempts targeting critical infrastructures. This includes the Dragonfly hack into Energy Firms, the New York DAM hack, and most recently the cyber-attack that caused a huge blackout in the Ukraine.

ICS attacks are inherently different than those of the IT space. In this session we will explain the anatomy of ICS cyber-attacks and walk through a few recent ICS hacks. We will review the unique challenges of ICS networks and discuss the steps that should be taken to secure these networks from external and internal threats.

Session Objectives:
1. Get the inside story on how ICS cyber-attacks operate
2. Understand the unique challenges of ICS environments and how they differ from traditional IT
3. Learn what can be done to better secure ICS networks and protect its critical elements

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**ABOUT THE AUTHORS**

**Mille Gandelsman** *is the CTO and Co-Founder of Indegy, an industrial cyber security startup that provides situational awareness and real-time security for industrial control networks. He leads Indegy's technology research and product management activities. Prior to Indegy, Gandelsman led engineering efforts for Stratoscale and spent several years leading cyber security research for Israel's elite intelligence corps. Gandelsman is an Israeli Defense Force Talpiot graduate and holds a master's degree with honors in computer science from Tel Aviv University. Contact: Mille@indegy.com*

**Chris Grove** *is the Director of Industrial Security at Indegy, the market leading industrial security solution for mission-critical infrastructure. Chris brings more than 25 years of experience in the cyber-security industry. Prior to Indegy, Chris spent 9 years at Imperva. Before that he provided security expertise to the casino industry for 7 years, and a long list of Fortune 50 companies ranging from telecom to banking to transportation.*

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