

About Westinghouse

WESTINGHOUSE GLOBAL HEADQUARTERS
Cranberry Township, Pennsylvania, U.S.



Approximately
9,300
Employees

Located in
19
Countries

Serving
Customers in
26
Countries

Comprised of
4
Business Units

AMERICAS
OPERATING
PLANT SERVICES

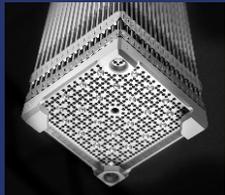
ASIA OPERATING
PLANT SERVICES

EMEA
OPERATING
PLANT SERVICES

PLANT
SOLUTIONS



Global Portfolio of Products & Services



Nuclear Fuel



Instrumentation and Control



Staffing Services



Components and Manufacturing



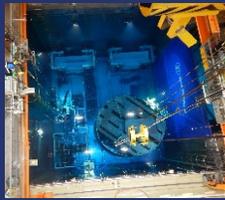
Field Services and Plant Modifications



New Plants



Engineering Services

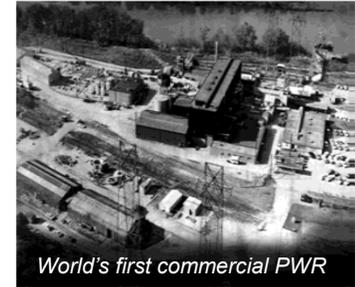


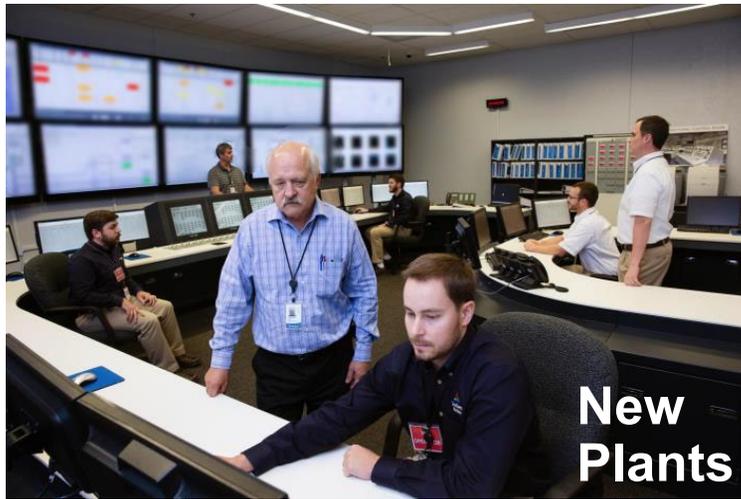
Decontamination & Decommissioning Solutions



Stone & Webster

Nuclear Industry Partnership





Apply New Plant Technology to Operating Plants
(Industry is moving to Digitalization)



Advance Training & Learning
(Mind, Brain & Education)



Develop and Implement New Reactor Technology
(Increase the technology portfolio, scalable Energy Solutions)

MCR Evolution & Advances

30 Year Evolutionary Change



Conventional
Hardware Control



Hybrid
Hard + Soft control



AP1000®
Software Control
Minimum Safety
Hardware



Digitalization and the Nuclear Workforce

Digital Solutions within Nuclear

- Data Science & Artificial Intelligence
- Internet of Things
- Augmented Reality & Virtual Reality
- Predictive Maintenance
- Electronic Work Procedures
- Smart Worker
- Automation & Robotics
- Digital Twins

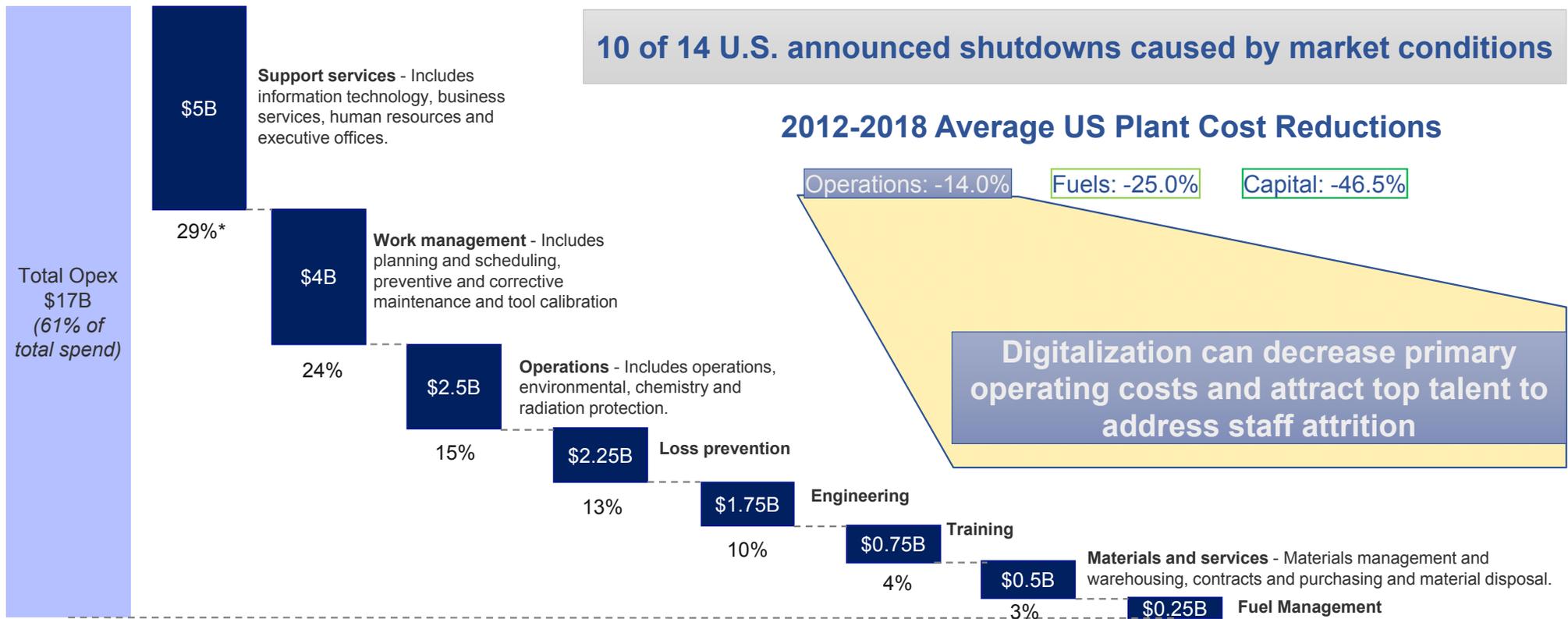


Workforce Benefit

- Top talent is drawn to solving unique digital challenges within the nuclear industry and developing innovative solutions
- Digital solutions lead to improved user experience, job satisfaction, and talent retention

Digitalization Business Case

Nuclear Industry Operations Cost (\$B)



Note: * Percentages reflect spend of category compared to total opex spend

Source: (1) Data from 'NEI Nuclear Costs in Context, Oct. 2018'

(2) Definitions as defined EUCG, the Institute for Nuclear Power Operations, the Electric Power Research Institute, and the Nuclear Energy Institute (NEI)

New Methods & Technology for Learning

MBE – Mind Brain & Education



Arts- Emotional Significance Learning
Integration Engagement Learning Outcomes

New Reactor Technology

Westinghouse eVinci™ Micro Reactor

- Combined heat & power: 0.2-5 MWe, > 600°C
- Transportable energy generator
- Fully factory built, fueled and assembled
- Up to 10-year fuel life
- < 1 month onsite installation
- Inherent safety
- Near Zero EPZ
- Physics-based with no operator action or mechanical actuations
- Autonomous load-follow capability
- Heat pipe technology
- Solid monolithic core block
- Greenfield decommissioning
- Small footprint

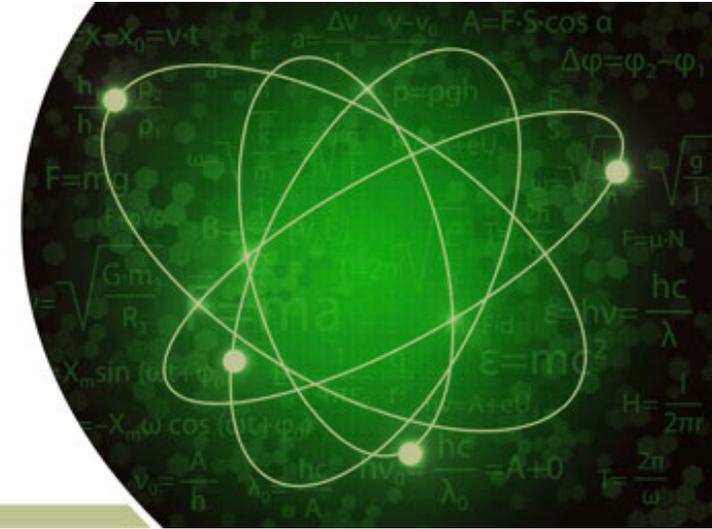




ANS Annual Meeting

2019

*THE VALUE
OF NUCLEAR*



Rejuvenate Nuclear Technology Infrastructure and Facilities

Christopher Crefeld

Director, Instrumentation & Controls

Westinghouse Electric Company, LLC

