

What if your assets were nuclear?

EDWARD YONG

SENIOR TECHNICAL ADVISOR ASSET MANAGEMENT

TAUMATA AROWAI

Overview



ABOUT ME



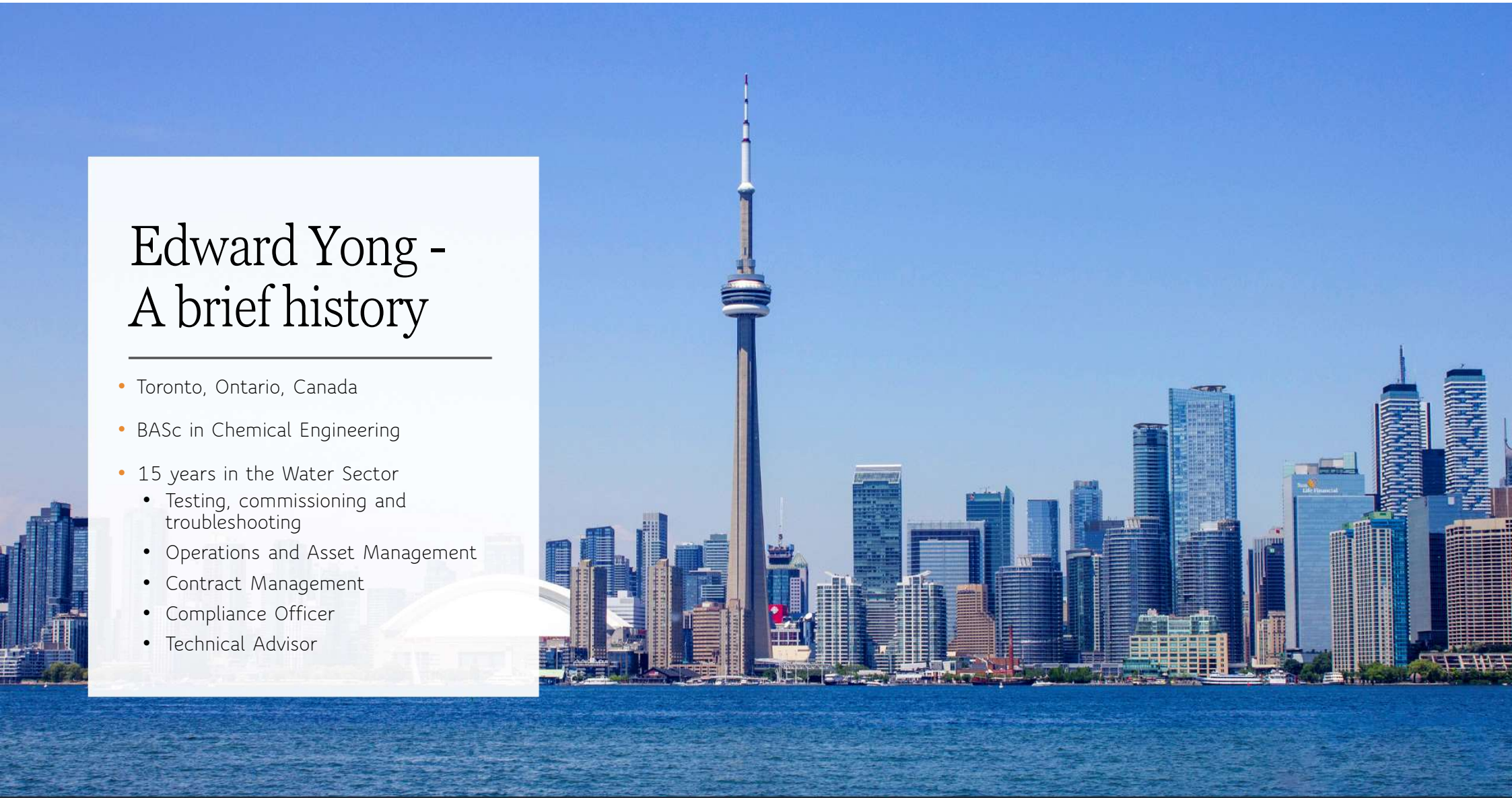
ONTARIO POWER GENERATION
PICKERING NUCLEAR GENERATING
STATION



TAUMATA AROWAI

Edward Yong - A brief history

- Toronto, Ontario, Canada
- BAsC in Chemical Engineering
- 15 years in the Water Sector
 - Testing, commissioning and troubleshooting
 - Operations and Asset Management
 - Contract Management
 - Compliance Officer
 - Technical Advisor

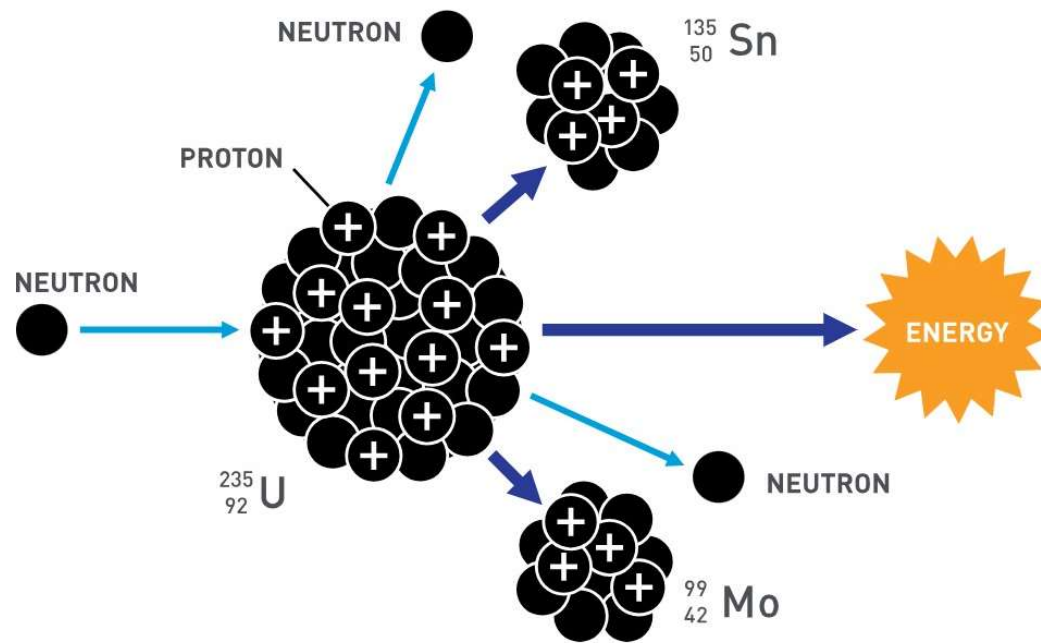


OPG PNGS

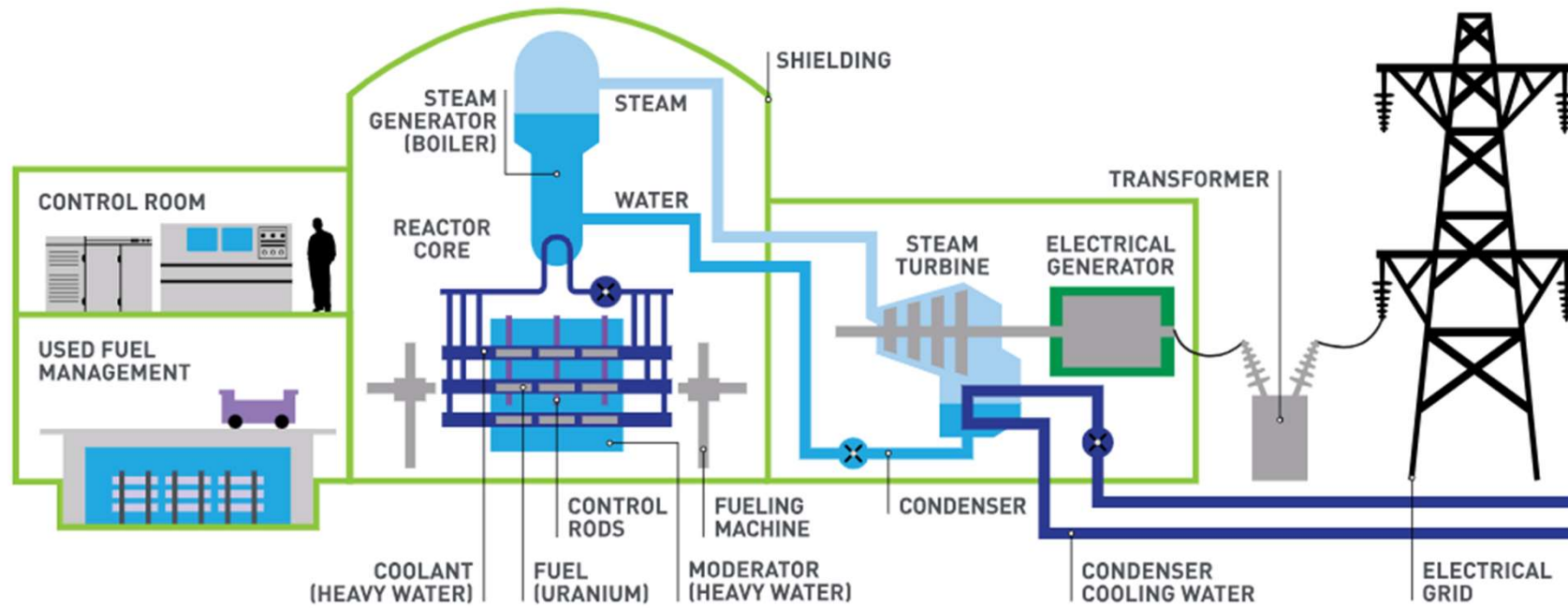
- Ontario Power Generation (OPG) is operator
- Pickering Nuclear Generating Station (PNGS)
 - 8 Canada Deuterium Uranium (CANDU) Reactors
 - Units 2 and 3 in safe storage mode
 - Units 1 and 4 will go into safe storage in 2024
 - 3,100MW Capacity
 - 14% of Ontario's electricity
 - 4,500 employees
 - [Here's what it looks like inside a nuclear power plant](#)

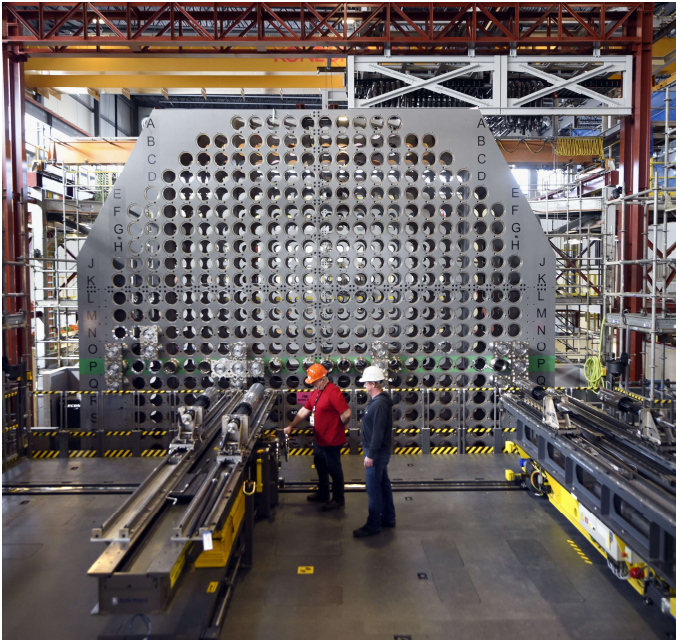


Nuclear Fission



CANDU Reactors





Asset Management

- Assessments
 - Asset Inventory
 - Risks and Hazards
 - Criticality
 - Mitigation Measures
 - Redundancy
 - Spares
 - Asset Management and Maintenance Plans
 - Systems Application Products (SAP)
 - 10-year asset management plan
 - 13-week rolling maintenance schedule
- Protocols and Training
 - Procedures created for all activates
 - Continuous upskilling of all staff
- Incidents
 - Ion Exchange Resin Release
 - Fukushima Nuclear Accident

Taumata Arowai

- Senior Technical Advisor Asset Management
- Provide support for the Regulatory Operations Team
 - Site visits to water suppliers
 - Review drinking water safety plans
- Provide support to the Policy Team
 - Provide information for new policies
 - Generate performance reports



Comments?

Questions?

Thank You!