



# Nuclear



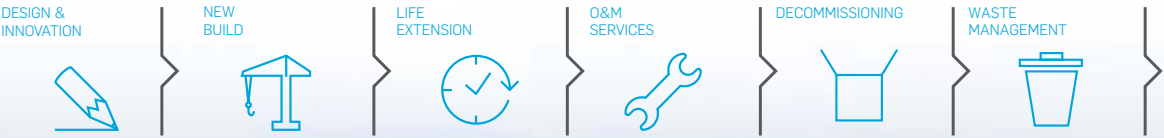


# Committed to a nuclear future

Like our clients, we understand that for nuclear power to work, it has to work for all. We provide unparalleled support through-out the entire nuclear lifecycle, ensuring that communities experience the benefits of clean, reliable and affordable nuclear power for generations. Our experts safely manage and clean up nuclear facilities and radiologically contaminated sites, restoring them for future use.

## Tailored Solutions

SNC-Lavalin is a global leader in our industry. We have the experience, people, technology and vision to cover every facet of the nuclear lifecycle. Our team of over 3,000 highly-skilled experts allows us to provide tailored solutions of any scale across the globe.



Hunterston A Power Station .

## Proven sustainable solutions across the nuclear lifecycle

Our team develops cost effective solutions to improve plant performance by combining decades of reactor experience with new and digital technologies. As a result we thrive and continue to shape the nuclear industry, in the countries and sectors in which we work.

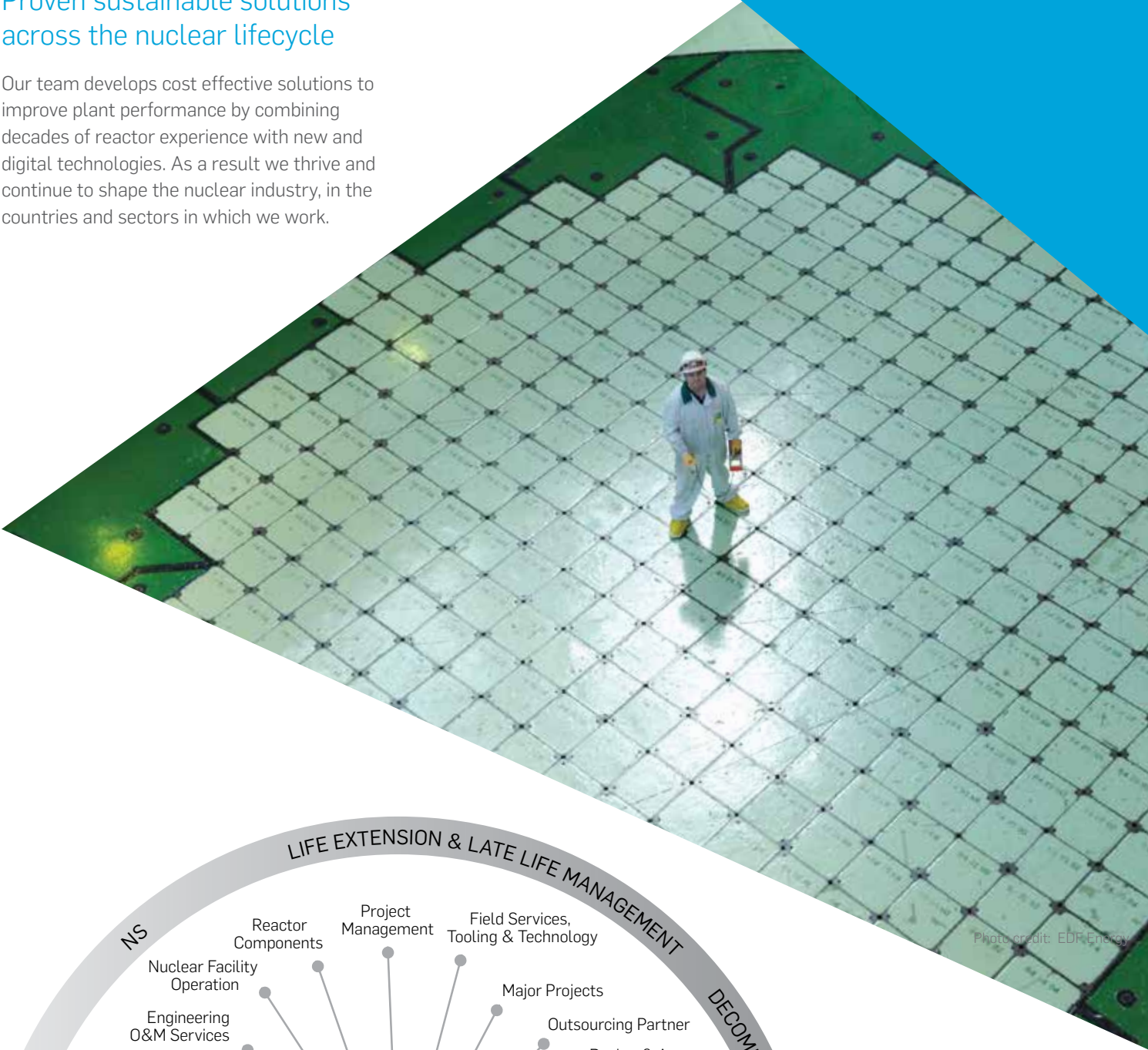
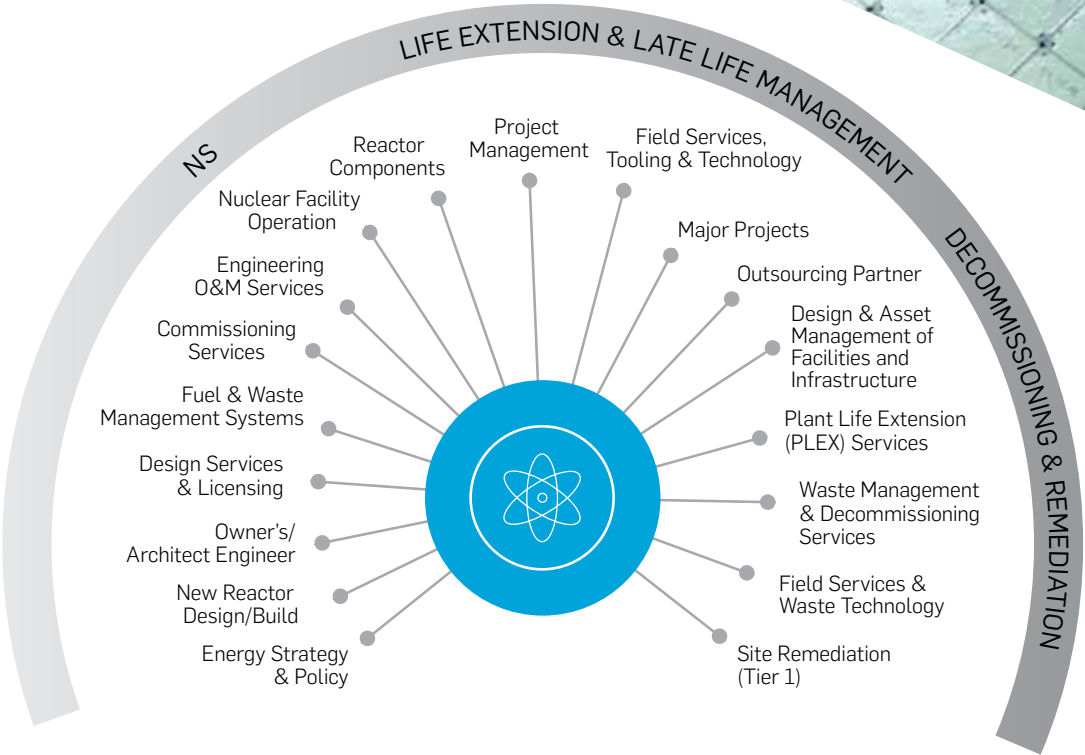


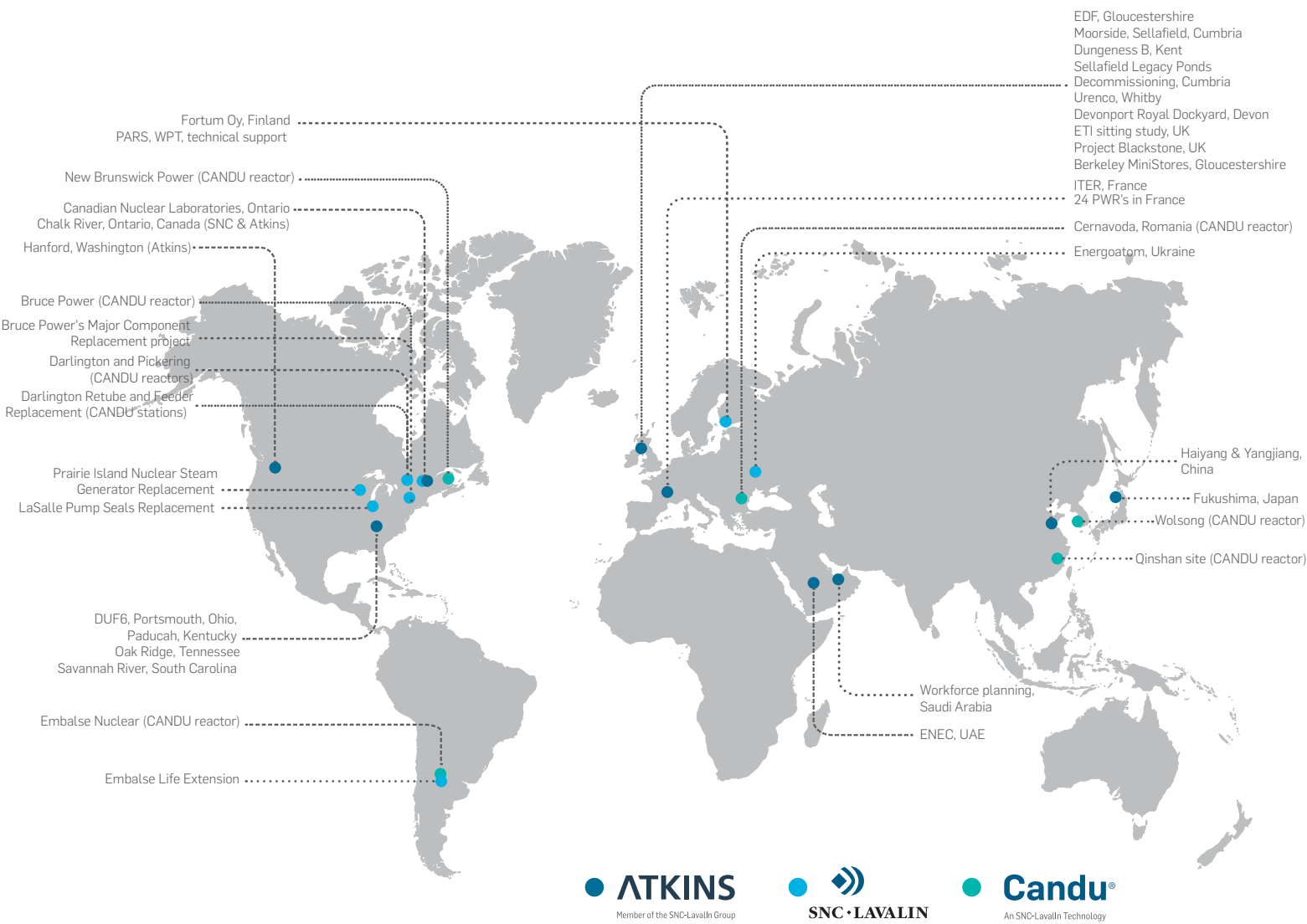
Photo credit: EDF Energy





# We are one of the largest nuclear teams globally

SNC-Lavalin's acquisition of Atkins, one of the world's most respected design, engineering and project management consultancies in 2017, created one of the largest nuclear teams globally. Our large team of experts has experience in every facet of the nuclear industry and all reactor types. We genuinely care about the work we do and appreciate our clients' trust in our ability to deliver innovative engineering solutions.




# Health, Safety and Environment: our focus & priority










Our longstanding relationship with some of the world leading nuclear utilities demonstrate our commitment to health, safety and environment (HSE) which is required to work in the nuclear sector. This is supported by robust processes and procedures that are mandated and driven from the top of the organization and cascaded to all staff. HSE protection is at the core of our values, and it influences the way we do business at all levels.

We drive the right behaviours in everything we do, and best practice in the industry. Through our initiatives such as personal HSE commitments, perfect days and environmental awareness we ensure our employees and those we work with operate in a safe and secure manner. Our approach to HSE incorporates continual learning across design and site-based activities ensuring delivery complies with our processes and procedures, and importantly that those we work with go home safely every day.

Our nuclear reactor technology adheres to the latest nuclear industry safety standards with multiple independent safety systems built in to virtually eliminate the chance of an incident, and in the very unlikely event that one might occur, it is designed to contain the harmful effects on both employees and the public. As a supplier and member of the Institute for Nuclear Power Operators we are a strong advocate of nuclear safety and work together with our clients, partners and other industry stakeholders to promote nuclear safety across the world.

| Metrics  | Nuclear 2018 |
|--|--------------|
| Total recordable injury frequency (TRIF)   | 0.08         |
| Lost time injury frequency (LTIF)  | 0.0          |
| Total environmental incident frequency (TEIF)  | 0.0          |
|  Perfect Days | 349          |

## 9 habits of highly effective HSE leaders

-  Put health and safety first
-  Accept and embrace our HSE vision
-  Take personal responsibility and be accountable
-  Express and foster genuine care
-  Be credible
-  Communicate often and effectively
-  Give recognition
-  Provide resources and training
-  Adopt a systematic approach

# Solutions that stand the test of time

## Reactor Vendor Solutions

Our experience as the steward of CANDU technology, along with BWR/PWR reactor experience, qualifies us as a trusted partner to any reactor vendor. From SMRs to Advanced nuclear reactors, we are able to tailor solutions to any of our client's needs. Having designed and licensed multiple reactors, all our solutions integrate industry best practices, new technologies and the latest safety standards.

## Major Projects Delivery

Strong project management is the key to success for major projects. We have a proven delivery framework and a team of experienced individuals to successfully execute major projects under various delivery models.

We have a track record of delivering new build projects on time and on budget. Moreover, we successfully deliver large-scale projects across the nuclear lifecycle such as life extensions, nuclear site management and waste management & decommissioning facilities.

## Operations & Maintenance Services

The long-term operations and viability of nuclear reactors determines how nuclear energy is seen and if it will continue to be an effective long-term, low-carbon energy source. We understand what services are required and when they are needed to ensure each reactor fulfils its expected life. Our solutions are tailored to the needs of each client and include best-in-class engineering, design, consulting, onsite services, and project management. These services include:

- > Civil engineering
- > Computer & display systems
- > Environmental qualifications
- > Field services & inspections
- > Instrumentation, control & electrical engineering
- > Non-destructive testing & evaluation
- > Nuclear safety
- > Probabilistic risk assessment
- > Radiation & health physics
- > Reactor, mechanical, process & equipment engineering
- > Tooling, robotics & spare parts

## Products and Technologies

Our solutions are built to meet our clients' most complex challenges. We offer an extensive line of products and technologies that help customers meet their needs. Investing in the latest products and technology enables us to deliver innovative solutions to maximize the value of nuclear assets around the world.

Our products include tooling & inspection and digital services to execute best in class waste management, life extensions and more.

## Site/Asset Management

The nuclear industry creates power to fuel our cities, but it also has many other applications such as the production of isotopes to sterilizesurgical equipment and diagnose cancers. We understand the applications of nuclear technology are vast. Our experience with clients both inside and outside of the power industry, including government and research laboratories, allows us to effectively develop new buildings or provide end of life services or decommissioning to facilities that manage non-power nuclear applications.

## Cleanup and Closure

When your nuclear asset has reached end of life, we offer a full range of services for decommissioning and remediation, site management, management of spent nuclear fuel, transportation of nuclear material and environmental clean-up of legacy sites.

With decades of experience developing and carrying out plans for decontamination and decommissioning of federal nuclear assets in the US, the UK and Canada, we thrive on the most complex cleanup challenges. Through Comprehensive Decommissioning International, our US-based Joint Venture company, we use our expertise to ensure safe, rapid and economic decommissioning of shuttered commercial nuclear reactor sites.



We are the designer/OEM of

32 CANDU NUCLEAR PLANTS  
AROUND THE WORLD

OVER 60 YEARS  
IN THE NUCLEAR INDUSTRY

EXTENSIVE  
EXPERIENCE  
LICENCING RESEARCH AND  
COMMERCIAL REACTORS  
AROUND THE WORLD

A TRACK RECORD  
OF DELIVERING  
ON SCHEDULE  
AND BUDGET