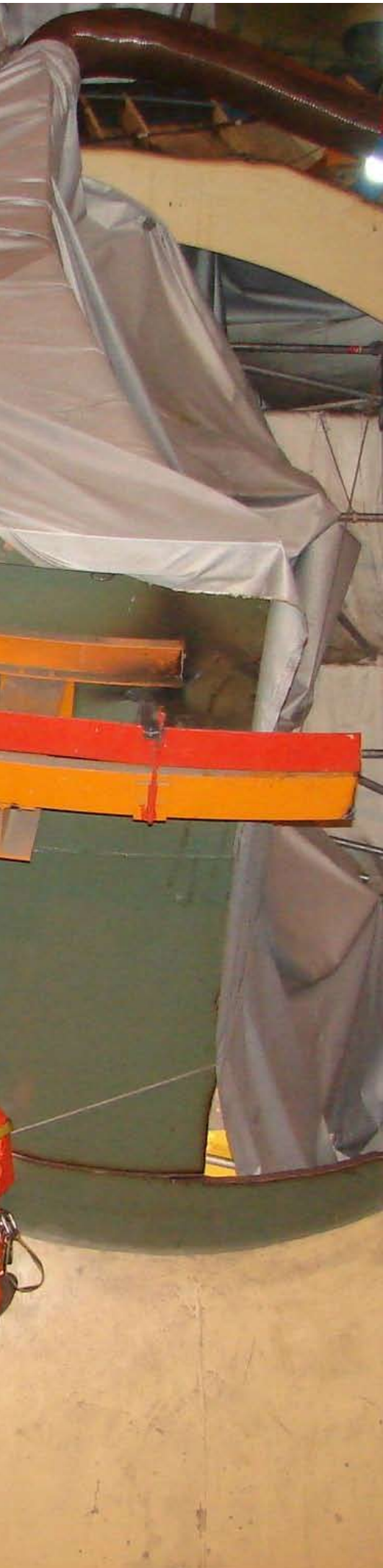


Nuclear Technology and Innovation





New Build
Plant Life Extension
Operations
Radiation Protection
Decommissioning
Waste Management



Nuvia - your nuclear partners

Nuvia can trace its roots from the beginning of the French and British nuclear industries. The Group has grown organically and through mergers and acquisitions. Pioneering work in construction, engineering, energy, nuclear R&D, design, build, operations, radiation protection and decommissioning has been undertaken; always with a strong emphasis on safety, quality, and sustainability. The Group's rich heritage is reflected in the wide range of services provided today.

Nuvia brings together the nuclear experience and expertise of Nuvia Limited in the UK and Nuvia France and its subsidiaries NTS, Salvarem, Mecatiss, Millennium, Essor and Vraco. Together the 1500 staff create a turnover of more than €200 million per annum.

Nuvia is a subsidiary of the specialist works and engineering group Soletanche Freyssinet with 16,500 staff and a turnover of €2.4 billion. Freyssinet has a long history of involvement in the nuclear industry through worldwide use of its advanced engineering and specialist products.

Soletanche Freyssinet is a wholly owned subsidiary of VINCI, the world's largest integrated concessions and construction group. Nuvia is the nuclear entity of the VINCI Group and this parentage provides a solid foundation and provides clients with unprecedented access to a range of outstanding engineering expertise.

The nuclear specialists





Nuclear Technology and Innovation

Nuvia offers a unique value proposition for customers across the international nuclear industry. Nuvia adds value to a client's operations through a carefully assembled in depth set of skills. Taken together, these offerings represent a unique approach and a 50 year heritage which draws on the very best skills operating in the two most experienced nuclear nations in Europe.

Nuvia: Nuclear specialist

Nuvia is the **nuclear specialist**, covering both civilian and defence sectors, across the complete lifecycle from licensing, new build, through operations and maintenance, to final decommissioning and waste management. Benefit is taken from being able to draw on radiation safety expertise that is involved in all activities from front end nuclear design, through operations to final waste disposal.



A vertically integrated approach

For large, complex nuclear challenges Nuvia offers a vertically integrated approach from design to construction and implementation on site. We are equally comfortable as a high level programme manager, specialist nuclear consultant, design authority or construction project implementer. With all the required skills in house, the client is protected from the commercial uncertainty of dealing through a main contractor who is dependent on sub-contracted nuclear specialisms.



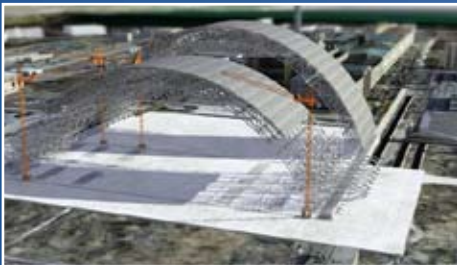
Historically, large nuclear cleanup projects have run into difficulties through contractors not having the in-house skills to solve unexpected problems. The Nuvia integrated approach overcomes this.



Unprecedented access to a range of outstanding engineering expertise

Technology provider and training centres

As well as being a provider of high quality project management, Nuvia is a nuclear “know how” company, with many specialist staff ranked as world leaders in their respective fields. From the strength of the combined Nuvia technology toolbox we can draw on tried and tested solutions wherever technological challenges are presented and we are equally comfortable and experienced in the development of advanced innovative solutions when required.



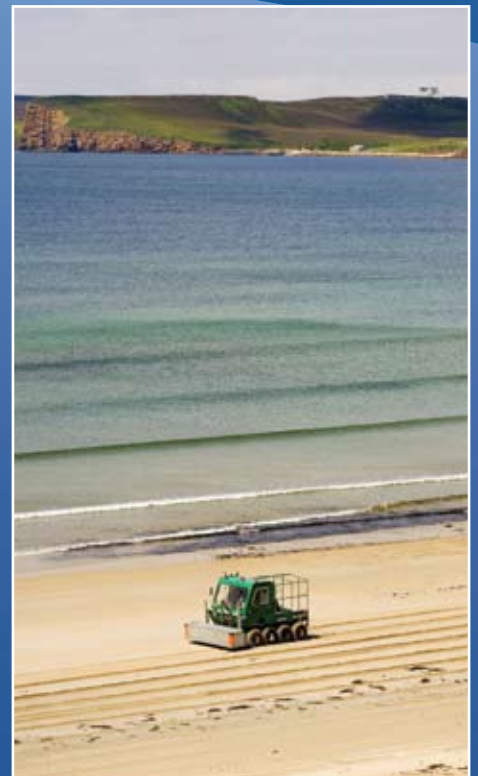
We have developed comprehensive in-house training, the “Nuvia Academy”, which offers a range of practical and theoretical courses given by experts in the field, using real case studies to ensure skills and technology transfer. Our capability is constantly being reinforced and replenished via an ambitious graduate recruitment and training programme.

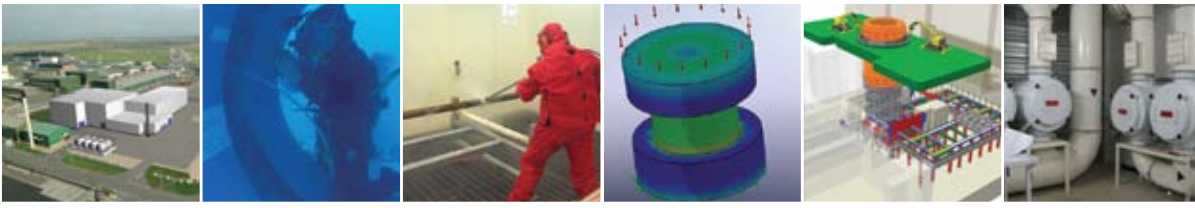


Innovation and Implementation

In addition to nuclear design, Nuvia has a strong track record in practical activities including running our own installation, decommissioning and operations teams.

Overlaid across our business is the philosophy of applying technology and innovation to both our projects and management processes. In Nuvia we are constantly looking for better ways of doing things. We support an R&D programme that reviews and funds innovative proposals from across the Nuvia Group. Our clients appreciate this desire to stay at the forefront of innovation.





A Unique Range of Vertically Integrated Solutions

New Build

- From concept to commissioning; the reliable and economic engineering for all nuclear facilities
 - Optioneering, concept development and design review
 - Safety reviews and safety cases
 - Detail design and specifications
 - Engineering, manufacture, construction and commissioning
 - Site interface and supply chain management
- Site preparation and construction work
 - Ground improvement, piling and in-ground cut-off walls
 - Site investigation and remediation
 - Heavy lifting
- Design, supply and installation of specialist items
 - Pre-stressing systems
 - Seismic protection, equipment anchors and dampers
 - Structural monitoring instrumentation
 - Passive fire protection
 - Penetration sealing and radiation shielding
- EPC to nuclear safety standards
 - Electrical, control and instrumentation
 - HVAC systems
 - High integrity pipework
 - Special fabrications and modules
 - Nuclear material handling systems
 - Waste handling and effluent treatment plants

Plant Life Extension

- Civil work assessment, improvement, air and water tightness
- Corrosion control and corrosion and seismic protection systems
- Risk assessment and safety case
- Upgrade of passive fire protection systems
- Design of solutions to supplement existing prestressing
- Computerised asset management
- Structural survey and analysis
- Monitoring and repair of steel and concrete structures to ensure integrity and safe life extension by application of in-house patented products for mechanical improvement and chemical treatment
- Seismic and dynamic impact analysis and implementation
- Radiological and physical characterisation of nuclear plant including design and implementation of investigation methods using video, remote controlled sampling and on-site radiological and physical measurement
- Seismic upgrading of reinforced concrete and metal structures

Operations

- Facility operation and maintenance, including the management of sub-contractors
 - Support services and facilities (eg laundry)
 - Involvement in specific operations within a facility (eg remote handling)
 - Preparation for and support to outages
- Waste management
 - Sentencing, segregation and transportation
 - In cell repackaging
 - Size reduction
 - Monitoring of orphan wastes
 - NORM descaling
- Decontamination operations, including the management of sub-contractors
 - Decontamination in situ (eg pond clean up)
 - Technical assistance (dressing, biological protection)
- Site operations and maintenance (eg demolition, cleaning, painting and refurbishment etc)
- Logistics
 - Change rooms services
 - On site transport
 - On call support to site management

*The combination of our
Operational and Radiation
Protection Services can provide*

We view our success as our clients' success

Radiation Protection

- Radiological protection outage support services
- Operational Monitoring Services; including managed service provision and radiological surveys
- Radiation Protection Instrumentation Services; including the maintenance and calibration of instrumentation and selection and provision of suitable instrumentation
- Large scale land/soil monitoring using Groundhog as well as specialist radiological assay services
- Land remediation and clearance services; including the rapid assessment of large volumes of potentially contaminated materials
- Radiological Protection Advice (RPA) services; including dose management and dose reduction; continuous radiological monitoring; shielding calculations and computer modelling
- Approved Dosimetry Services for both internal and external dosimetry
- Provision of radiological protection training services; including on-line training and bespoke courses

Decommissioning

- Decommissioning planning, costing, risk assessment and risk management
- Decommissioning of reactors, fuel cycle facilities and research centres with a wide and varied inventory including plutonium, uranium, tritium, sodium
- Decontamination and decommissioning techniques applied to a variety of situations dealing with a range of residual mechanical equipment, spent fuel debris, concrete and stainless steel
- Specialists in minimising volumes of radioactive waste through an innovative and cost effective approach to
 - decontamination techniques
 - characterisation
 - segmentation
 - sentencing
 - packaging to achieve lowest volume and most appropriate category of waste

Waste Management

- Waste assay and characterisation
- R&D; optioneering; front-end design and safety cases
- Turnkey supply of facilities to process and package waste, including ILW encapsulation plants
- Plant operations
- Size reduction and volume minimisation
- Waste packaging and transport
- Waste disposal and storage

clients with a comprehensive 'one stop shop' solution to their plant operational needs...



Office Locations

Australia

Sydney

Belgium

Vilvoorde

Bulgaria

Sofia

Canada

Ontario

China

Shanghai

France

Aix en Provence
Beaumont-Hague

Lyon

Morestel

Paris

Pierrelatte

Saint-Paul-lès-Durance

Great Britain

Dounreay

Glasgow

Harwell

Risley

Sellafield

Westlakes

Winfrith

Hong Kong

Kowloon

Hungary

Budapest

Italy

Milan

India

Chennai

Mumbai

New Delhi

Romania

Bucharest

Russia

Moscow

South Africa

Cape Town

Johannesburg

South Korea

Seoul

Spain

Barcelona

Madrid

UAE

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USA

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