

Bright ideas for **Sustainable** design



Our projects

A sample of our current and recent projects



Framework with Scottish & Southern Energy

Grontmij has secured a framework agreement to provide sustainable energy consultancy services to Scottish & Southern Energy. This includes advice on a broad range of issues from mechanical and civil engineering to energy efficiency. The company is one of the UK's largest developers and generators of renewable energy including biomass, wind energy and hydro power.



Working in alliance with Anglian Water

An excellent example of partnering in the water industry is the @one Alliance for Anglian Water of which Grontmij is an integral partner. At Alliance inception Grontmij was initially charged with infrastructure schemes but the scope has since broadened to include a range of other added value services. We have also helped the Alliance with the development of their carbon footprinting toolkit.



Nuclear decommissioning at Ignalina

Grontmij is working with the United Kingdom Atomic Energy Authority on the production of design and licensing documentation for the decommissioning of one of Ignalina's reactors. This flagship project combines the extensive experience of Grontmij's UK and Swedish offices.



2014 Commonwealth Games athletes' village

Grontmij is supporting the development of the athlete's village for the 2014 Commonwealth games in Glasgow. The consultancy is providing multi-disciplinary services to establish the suitability of the site prior to redevelopment. This includes input from the waste, remediation, contaminated land, ecology and geotechnical teams.



The Willis Building, London

Roger Preston and Partners (part of the Grontmij group) has been involved in a 21 month, 69,000m² commercial office development within the city of London. This comprises a 29 storey tower and a 10 storey podium building. The main objectives were to provide an environmentally conscious 'world class' building with an excellent sustainability rating from the environmental assessment agency.



M9 Spur Extension / A90 Upgrading Works

Grontmij acted as designer for this scheme comprising the extension of the M9 Spur motorway to link with the A90 and the on-line widening of the A90 towards the Forth Road Bridge. The works incorporated four major structures including a 100 metre long underpass. The scheme was delivered on budget and ahead of schedule.



Peninsula Square at the entrance to The O2

Whitelaw Turkington (part of the Grontmij group) was the landscape architect for Peninsula Square, the gateway to The O2. They have subsequently won a high profile commission to develop the landscape masterplan for the surrounding Greenwich Peninsula.



Water conservation in Ireland

Grontmij has been working with several Irish County Councils for over a decade to resolve leakage problems and to create long term solutions for effective and efficient network management. Recent works in Waterford City have employed the latest pipe bursting technology, which provides cost and time savings whilst reducing disruption to the public.



Leading the way in sustainability

The world's climate is changing. The science of this is now beyond reasonable doubt. In the face of this challenge, the push to be more sustainable in all that we do is ever more real and immediate.

At Grontmij we take our responsibility towards sustainability very seriously.

There are two ways to respond to our changing world; we can adapt to it and or we can mitigate some of the man-made effects that our society produces.

At Grontmij we have a vast range of skills and services aimed at both of these strategies



Water

Grontmij is a leading consultancy in the water industry. We specialise in the provision of professional consultancy services for the planning, management and delivery of projects and capital programmes.

The water industry sits right at the heart of our business. Few consultancies can demonstrate both the track record and multi-disciplinary expertise in the delivery of individual commissions and large capital programmes. We advise clients on all strategic and functional aspects including water quality, water resources, wastewater treatment and sewerage, pumping stations, water supply, water networks, legislation, energy efficiency and in addition capital maintenance and renewal programmes.

Our services in this area include:

- Water asset design
 - Sewerage systems
 - Water supply systems
 - Waste water treatment
 - Water treatment
 - Specialist M&E and ICA services
- Water consultancy
 - Asset management
 - Contract management
 - Legislation / regulatory advice
 - PFI / PPP technical advisor
 - Procurement advice
 - Strategic business planning
 - Specialist energy advice
- Water environment
 - Flood alleviation and hydrology
 - Flood risk assessment
 - River engineering
 - Water resources



The Built and Natural Environment

At Grontmij we have a comprehensive consultation capability specialising across the full spectrum of client requirements in the built and natural environment. We assist clients in every aspect of land assessment, reclamation, remediation, development and building.

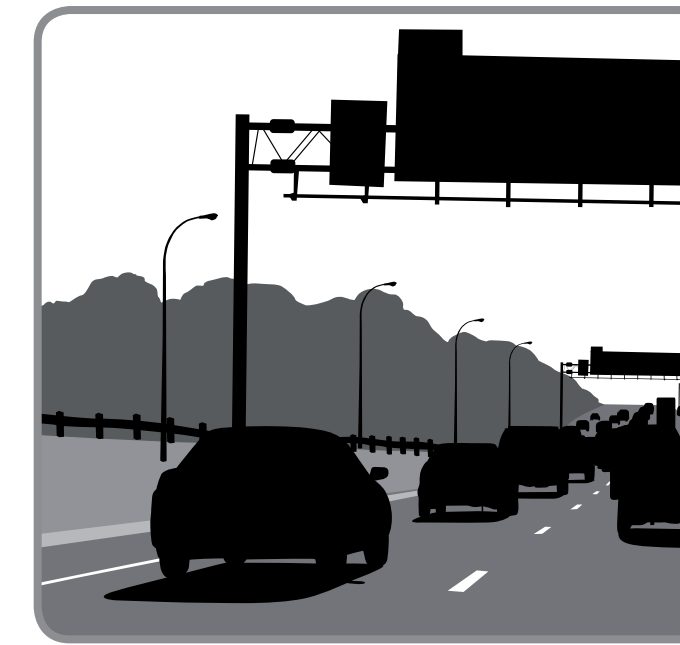
Our dynamic service offering is also complimented by the skills of other companies which form part of Grontmij. Whitelaw Turkington, one of the leading landscape architecture practices in the UK, brings award winning and cutting edge design capabilities for the public realm. Roger Preston and Partners provides authoritative engineering advice and specialises exclusively in the systems, energy and environment for buildings.

Through this unique combination, our services in this area include:

- Building services engineering
- Building structures engineering
- Landscape architecture
- Development
- Geotechnical engineering
- Contaminated soil and groundwater
- Remediation and regeneration
- Waste management
- Corporate environment
- Environmental assessment
- Environmental resources
- Carbon footprinting
- Environmental management systems
- Environment and CSR reporting

 **Whitelaw Turkington**

 **Roger Preston & Partners**



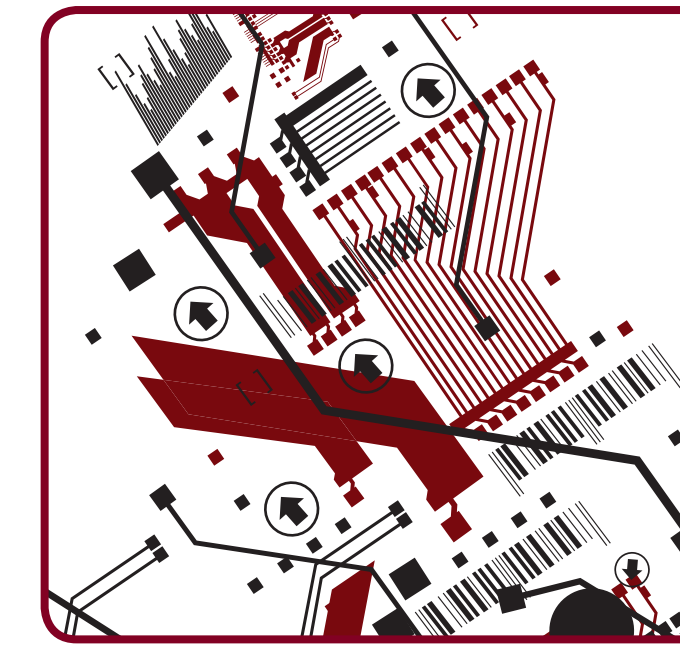
Transportation

Grontmij provides consultancy services in all aspects of modern transport systems and infrastructure. Our international expertise benefits clients at all phases of a project; from analysis, feasibility studies, design and planning to construction and management.

We understand that modern transportation requirements call for integrated and innovative solutions. We ensure that our designs take into account current needs as well as mobility, efficiency, cost and sustainability requirements.

Our services in this area include:

- Access strategies
- Active traffic management
- Bridges
- Car parking studies and layouts
- Design and construct
- Development planning
- Expert witness
- Highways
- Local authority support
- Manufacture of pavement testing equipment
- Masterplanning
- Pavement technology
- Public transport and planning
- Road user charging
- Scheme development and appraisal
- Strategy and policy
- Sustainable travel plans
- Traffic engineering
- Transport funding bids
- Transport planning
- Transportation issues
- Tunnels



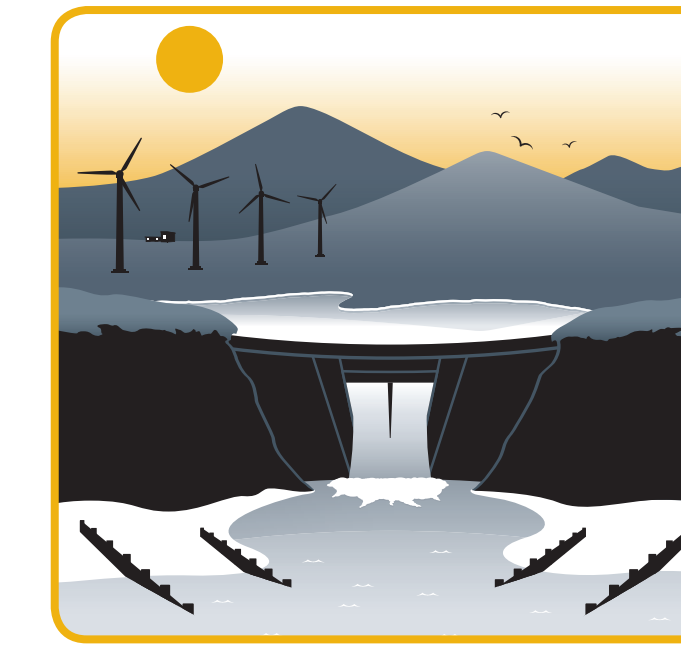
Systems

Over the last 25 years Grontmij has developed a market leading systems business that provides practical solutions for the water, transportation, energy and nuclear decommissioning markets.

We provide a full range of technical disciplines in order to assist our clients in managing their assets and processes in a real time environment. This includes monitoring and collecting data associated with the operation and status of the assets, as well as analysing and presenting this information with a view to improving performance. In addition, we provide automation and control of the assets and associated processes, from simple robust low technology systems, through to full safety critical systems for the shut down of complete plants.

Our services in this area include:

- Asset monitoring and control
- Configuration and installation services
- Commissioning services
- Contract preparation and management
- Energy engineering
- Fire & hazard engineering
- HVAC (including active)
- Intelligent transport systems
- Mechanical handling
- Nuclear decommissioning and new build consultancy
- Procurement management
- Safety critical systems
- Safety case production
- Site surveys and supervision
- Specification production
- Telemetry and SCADA
- Travel information



Climate and Energy

The link between our changing climate and the emissions of CO₂ and other greenhouse gases is a well established fact. Since these emissions are mostly linked to our use of energy derived from fossil fuels, this makes the association of climate and energy inescapable in all that we do.

In a changing environment with increasing demand for energy coupled with limited resources, we provide advice to various public and private stakeholders including all levels of government and regional bodies. We field expertise on policy formulation and its implementation, which can include management systems, planning control and licensing. We also assist our clients with guidance on strategy, due diligence and funding. Our support follows through to development and encompasses all aspects of design and engineering within established regulatory frameworks, adding value through innovation and efficiency.

Our services in this area includes:

- Adapting to climate change
 - Flooding and coastal management
 - Geotechnical engineering
 - Sustainable integrated drainage
 - Water resources
 - Indoor environment of sustainable buildings
- Mitigating climate change
 - Energy management and energy efficiency
 - Zero carbon development
- Renewable energy technologies
 - Wind (on-shore and off-shore)
 - Hydro
 - Bio-energy
 - Energy recovered from waste
 - Combined heat and power
 - District heating and cooling



Commercial and Contract Consultancy

Trett Consulting (part of the Grontmij group) is a recognised leader in providing commercial and contract consultancy services aimed at investigating contractual, financial and management problems within the construction and engineering industries.

Our specialist teams are made up of highly qualified construction professionals with considerable relevant experience and legal expertise, enabling them to recognise and analyse complex commercial and contractual issues sensitively and comprehensively. By combining exceptionally high professional standards with proven commercial acumen, we have established robust relationships with clients including financial institutions, contractors, developers, manufacturers, insurers, accountants and solicitors. Our global office network covers the UK, the Asia-Pacific region, North America and the Middle East.

Our dynamic range of services in this area includes:

- Claims and related services
- Adjudication services
- Assistance in litigation and arbitration
- Planning and programming
- Construction consultancy
- Quantity surveying
- Specialist commercial services

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Grontmij - breaking the mould