

**DELIVERING INNOVATIVE
ENGINEERING SOLUTIONS IN
SOCIALY RESPONSIBLE WAYS**

2026



CONTENTS

Who are ECSL?

What we do

Our approach

Our experience



WHO ARE ECSL?

ECSL was established in October 2019 with a vision to harness the vast innovation and expertise of the UK rail industry and apply it to infrastructure projects around the world.

Since its inception, the ECSL Group has steadily grown, delivering a wide range of railway schemes & power projects across the UK. ECSL now comprises approximately 80 team members, offering a full suite of multi-disciplinary design services across offices in the UK, India, and Ireland.

Over this period, we have successfully delivered more than 500 projects, driven by our core values of **Innovation**, **Sustainability**, and **Social Responsibility**. These principles underpin our commitment to delivering smarter, faster, and more cost-efficient solutions that challenge conventional approaches in the UK construction industry.

A key objective for ECSL from the beginning has been to build self-sufficiency in project delivery. This goal was realised in 2023 with the launch of IES—our dedicated arm for site investigation, topographical surveys, and structural examinations. Gaining full control over these critical inputs has enhanced our quality assurance and strengthened our turnkey service capabilities.

“At ECSL our vision is to champion social responsibility by empowering the next generation of civil engineers.

We intend to lead the civil engineering industry through the development of innovative and sustainable solutions.

We look for clients and partners who share the vision to build resilient infrastructure that serves society with integrity.

Within our business we aim to foster a culture of collaboration, learning, inclusion, and long-term, forward-thinking design”

Dr Dave Gent – Founder and CEO



ECSL

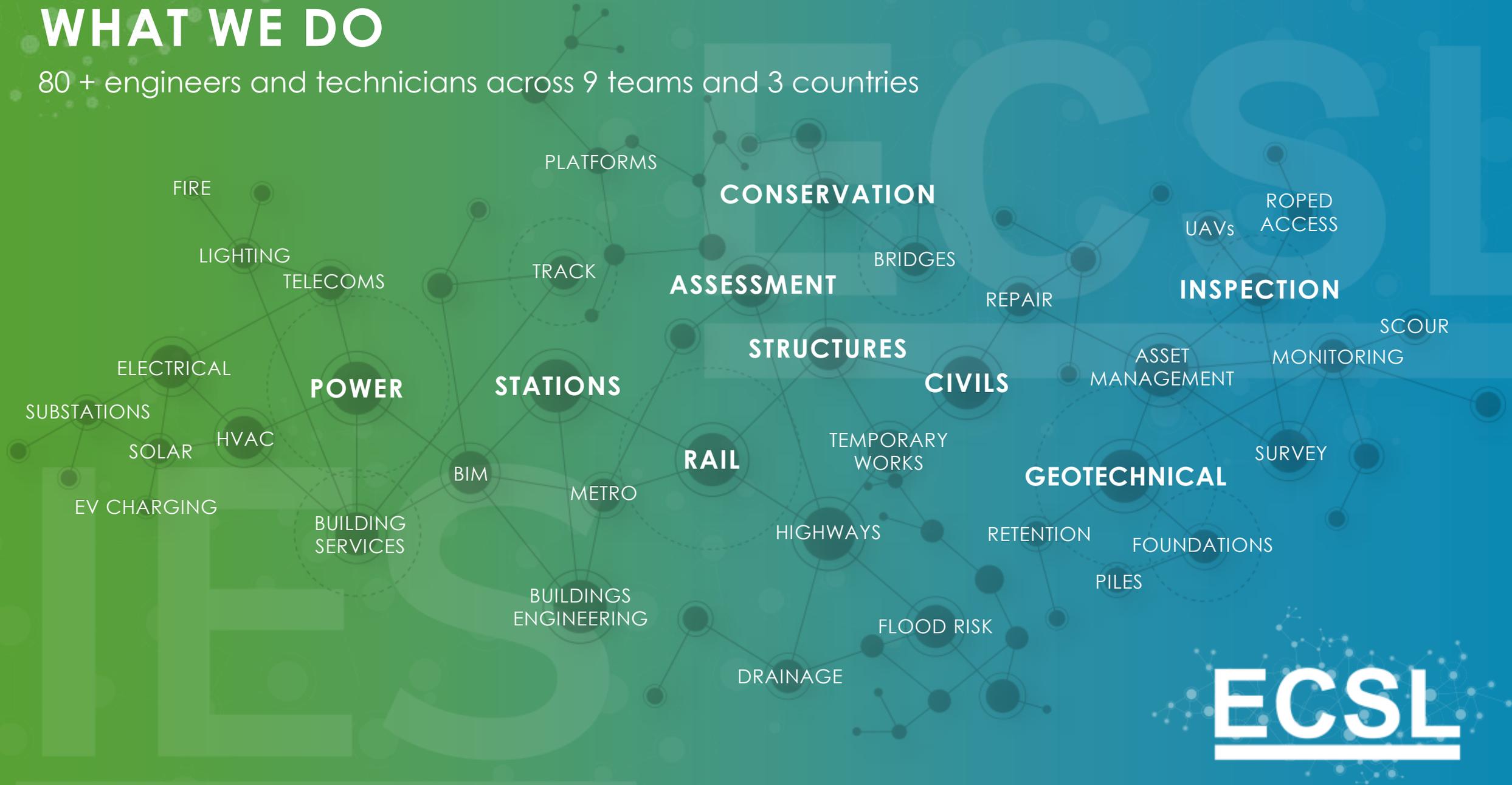
INNOVATION, SUSTAINABILITY, SOCIAL RESPONSIBILITY

Using the latest technology to leave a positive legacy

ECSL

WHAT WE DO

80 + engineers and technicians across 9 teams and 3 countries



ECSL

DESIGN CONSULTANCY

We engage with our clients to establish the strategic foundation for new projects and believe there is no such thing as "too early" for us to start embedding value, constructability and sustainability within a project.

We collaborate closely with clients who entrust us with their vision, relying on our expertise to translate it into reality. Through our supply chain of innovators, we subject every idea to scrutiny from diverse perspectives before delving into technicalities. This ensures that our concepts are robust, defensible, and ultimately more sustainable.

We meticulously design technology-driven systems and engineer intricate infrastructure with a focus on compliance and sustainability from the outset. Our aim is to future-proof each project by incorporating inclusive, human-centric design principles and leveraging cutting-edge innovations in responsible engineering and clean energy solutions.

- Bridge design
- Civil Engineering
- Highways design
- Geotechnical design
- Drainage design
- Flood risk assessments
- Railway Stations and Infrastructure
- Access and inclusive mobility design
- Track design
- M&E design
- Buildings Services
- Renewable energy design
- Project management
- Feasibility studies
- Conservation support
- Building Information Modelling
- Spatial Design and Architecture
- Temporary works

SITE INVESTIGATION

In 2023, ECSL set up sister company IES in order to take control of our site investigation requirements.

By building a team of surveyors, examiners and investigation engineers we are able to firmly control quality, programme and cost without the need to rely on subcontractors.

Working with our supply chain we bolster this capability with specialist services such as non-destructive testing and fire engineering.

- Utility surveys / site mark ups
- Topographical surveys
- CCTV Drain surveys
- Buildings Surveys
- Conservation Accreditation (CARE)
- Bridge Examination and Assessment
- Bearing Inspection
- Tunnel Examination
- Confined Space and Roped Access
- 3D Laser Scan Surveys
- Drones & UAVs
- Photogrammetry surveys
- Track and gauging surveys
- Overhead Powerline survey
- OLE heights and staggers surveys
- Residual life assessment
- Bridge examination training

CONSTRUCTABILITY IN DESIGN

Embedding our designers
with the construction team

ECSL



OUR APPROACH

Sustainability

Social Responsibility

Innovation

Collaboration



SUSTAINABILITY

Amidst unprecedented global challenges, we maintain a practical sense of optimism. We believe that the necessary technologies and expertise already exist to tackle many of the sustainability issues facing our world; they simply require coordinated integration.

Our delivery strategy revolves around working with our clients and partners to initiate each project with a clear Net Zero objective, then maintaining this ideal through the design and build life of the project.

Our aim is to deliver solutions to our clients that are as reliable and familiar as the traditional coupled with the latest sustainable technology. By combining our diverse skills and mitigating the risks associated with innovation, we aim to establish sustainability as the standard. This commitment to "Engineering Net Zero" is deeply ingrained in our 'One Team' culture and serves as a rallying point for the entire company.



SOCIAL RESPONSIBILITY

Social responsibility is one of ECSL's core principals, as we recognise that developing the engineers of the future is integral to the success of our industry.

At ECSL we do this by employing local staff where we are able, collaborating with other local SME's to deliver schemes and engaging with local educational institutions such as schools and universities.

In the UK, Ireland and India, we are committed to supporting the employment and training of people with non-engineering and from disadvantaged backgrounds where possible, recognising that exceptional engineers do not always follow the traditional path. In the UK we have strategic partnerships with Local Authorities to provide engineering-related work opportunities to people from disadvantaged backgrounds.

The ECSL logo is positioned in the bottom right corner of the page. It features the letters 'ECSL' in a bold, white, sans-serif font. A thick white horizontal line is placed directly beneath the letters. The background behind the logo consists of a faint, light blue grid pattern with small white dots at the intersections, set against a dark blue background.

INNOVATION

When embarking on projects like station developments, rail infrastructure design, or heritage conservation projects, embracing innovation requires a broad perspective. How does one innovation ripple through and impact various interconnected elements? How does an immediate alteration shape the future of the project as a whole? For us, innovation is not a sudden stroke of brilliance; it is a series of incremental enhancements that collectively pave the way for substantial and enduring transformation.

We approach the creation of these pathways through engineering thinking. This mindset entails holding oneself accountable for the ripple effects of an idea as the ultimate test of its validity. It is not merely about moving one chess piece; it is about comprehending the successive chain of events and its ultimate outcome. This systematic, forward-thinking approach to innovation instills confidence in people regarding significant change. With confidence comes commitment and collaboration from wider project team.



ECSL

COLLABORATION

ECSL are committed to creating exceptional, collaborative working environments for both our clients and our team members. We temper our core principles of integrity, innovation and honesty into our cutting-edge design approach. With a mission to amplify the lives of people and the communities we operate within, we help with end-to-end solutions covering all aspects, right from initial consultation ultimate completion.

We do this by adopting a personable, 'One Team' approach to project delivery, bringing together our clients, our designers and the project stakeholders to create a team with a unified goal.

Collaboration is defined as "the action of working together to produce something" which is at the heart of our company philosophy. Every member of our team enjoys bringing people together, learning together and solving problems together. Working in a collaborative, embedded manner with our clients and suppliers ensures we solve those problems more efficiently.

The ECSL logo is positioned in the bottom right corner of the page. It features the letters 'ECSL' in a bold, white, sans-serif font. The letters are set against a background of a white molecular or network structure, consisting of small dots connected by thin lines, which is superimposed on the blue-tinted background of the office scene.

ECSL

CONSERVATION PRINCIPLES

A wide-angle photograph of a massive, ancient stone amphitheater. The structure is built from dark, rectangular stone blocks, arranged in numerous tiers that curve around a central area. The top of the structure is jagged and appears to be a natural rock outcrop. A person wearing a red jacket and a hat is sitting on one of the lower tiers, providing a sense of scale. The sky is a clear, bright blue. The foreground is a flat, light-colored dirt or sand area.

Safeguarding our heritage for future generations

ECSL

OUR EXPERIENCE

EAST MIDLANDS PARKWAY SOLAR ENERGY
MIDLAND MAINLINE ELECTRIFICATION
BICKER FENN SUBSTATION
NATIONAL RAILWAY NETWORK CHILE
AFA STATION UPGRADES

ECSL

EAST MIDLANDS PARKWAY SOLAR ENERGY

Supporting train operating companies to implement renewable energy systems

ECSL were engaged by long standing client East Midlands Railways (EMR) to complete the design and technical assurance for their maiden solar panel retrofit project.

ECSL were commissioned to complete the detailed electrical systems design, connection to DNO, structural checks on the existing station roof and architectural services needed for the planning application.

The trial at East Midlands Parkway will serve as the template for adopting solar panels to provide clean energy for stations through the rest of EMR's asset portfolio during CP7.



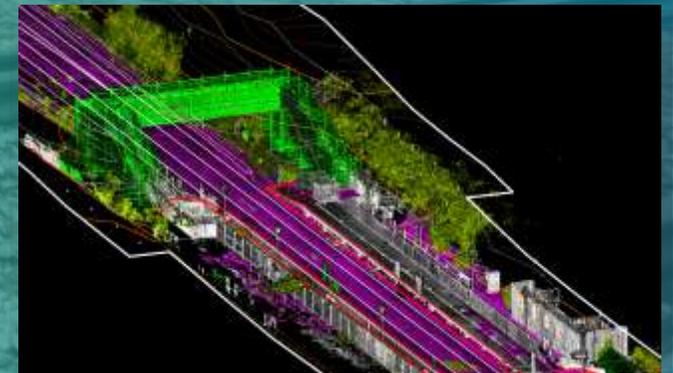
MIDLAND MAINLINE ELECTRIFICATION

Electrifying the line to support the UK government's net zero carbon targets for 2050

Network Rail are working on the biggest programme of improvements to the Midland Mainline since its completion in 1870.

Since 2014 the line has been electrified in sections to allow electric trains to run along the full length of the line from St Pancras to Sheffield, improving both the cost efficiency and environmental credentials of the railway.

The ECSL team have supported SPL Powerlines with delivering this scheme since 2019, with team members embedded within the client team to provide technical assurance, designers providing a full range of multi-d services as well as temporary works design, and site teams providing bridge examinations and site investigation when needed.



ECSL

BICKER FENN SUBSTATION

Providing upgrades to the nations power distribution network

National Grid is extending their Bicker Fen 400kv substation as part of the works to facilitate the connection of the Viking Link Interconnector to the electricity transmission system. This forms the UK termination point for the Viking Link between Denmark and Britain, bringing clean energy to power 1.5million homes in the UK.

ECSL were engaged by GTDS to undertake the site investigation and civils design for the upgrade to Bicker Fenn, which is one of a portfolio of substation upgrades we are delivering as their design partner.



ECSL

NATIONAL RAILWAY NETWORK CHILE

Supporting EFE to upgrade railway asset management

Empresa de los Ferrocarriles del Estado, EFE for short, has operated the national railway network in Chile since 1884. It manages the infrastructure and operating rail services throughout the country, which happens to be the longest railway in the world.

In 2023, ECSL began work with EFE to understand their asset management requirements and create the architecture needed for a modern asset management system.

ECSL also worked with EFE to outline the training and standards requirements based on those we implement in the UK, both for asset management and safe systems of working.



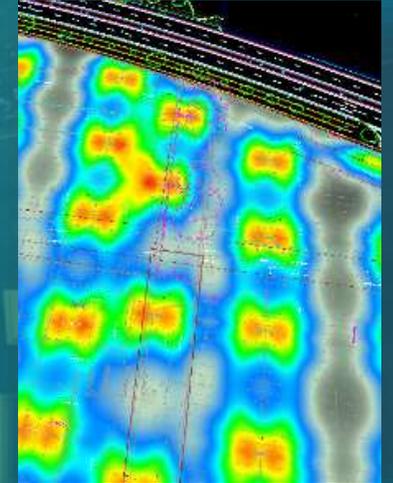
ECSL

AFA STATION UPGRADES

Supporting Network Rail and their suppliers with design services

Throughout CP6 ECSL have completed circa 50 Access for All railway station upgrades, from topographical survey to bridge design, electrical systems surveys to platform overlays and Harrington humps.

ECSL's USP when it comes to Access for All upgrades is our turnkey solution. By undertaking both the site investigation and design services, we minimise the loss and degradation of data between teams as everything is captured and stored in our central coordinated design environment.



KEY PEOPLE



Geoff Kenny,
Director of Operations - IES
Geoff is Director of Operations for our sister company Investigation and Examination Services Ltd. With over 20 years of experience in the geospatial industry, he oversees our site activities including engineering survey, measured building and pointcloud surveys, structural examination, utilities surveying, and ground investigation. Geoff's experience includes extensive knowledge of providing survey data for the rail, power and highways sectors.



Dr Dave Gent, CEng, FICE
Director of Operations - UK
Dave is currently overseeing our portfolio of power, distribution and transmissions projects as well as providing technical assurance to multi-disciplinary design deliverables.



Daniel Ahern, PG Cert, BSc (Hons), Dip, Tech IEI
Head of Operations - Ireland
Ireland director with over 25 years international experience in the consulting industry specialising in BIM/CAD management & technician roles. Experienced gained in the design delivery for many engineering disciplines including active travel, bridges, buildings, environmental, rail, roads, buildings, power, utilities, surveying.



Xavier DeMangeat
Business Development/BID Manager
With nearly 20 years in rail, Xavier blends operational and consultancy experience to lead business development and bidding at ECSL. Alongside rail, he also support ECSL's growing portfolio in the power sector, including substation projects. Focused on strategic growth and client relationships, Xavier plays a key role in driving success across transport and infrastructure.

CONTACTS – ECSL TEAM

ECSL

Website : [ECSL - Sustainability | Innovation | Social Responsibility \(engineeringcsl.com\)](https://www.engineeringcsl.com)

LinkedIn : (1) [ECSL: Overview | LinkedIn](#)

Dr Dave Gent

Director, Head of Operations (UK)

Email : david.gent@engineeringcsl.com

Phone : [+44 \(0\) 1159393617](tel:+441159393617)

Address : Derwent House, Derby, DE24 8UP

Daniel Ahern

Director, Head of Operations (Ireland)

Email : daniel.ahern@engineeringcsl.com

Phone : [+353 \(0\) 86 3307116](tel:+353863307116)

Address : GreentechHQ, Wexford , Ireland

Preeti Jha

Director, Head of Operations (India)

Email: preeti.jha@engineeringcsl.com

Phone : [+91 9818821285](tel:+919818821285)

Address : Bangalore & New Delhi

Geoff Kenny

Director, Head of Operations – IES

Email: geoff.kenney@engineeringcsl.com

Phone: [+44 \(0\) 7900 575557](tel:+4417900575557)

Address: Derwent House, Derby, DE24 8UP

