



Agricultural **LAND DRAINAGE** Specialists

*Cross-Country Utility Routes*





**Delivering  
solutions  
for over  
50  
years**

**We provide remedial drainage services to the civils sector for cross-country cabling routes, cross-country pipelines and renewable energy projects – including solar and windfarm infrastructure**



“

*William Morfoot Ltd have impressed us from the outset. The practical delivery of the project has occurred seamlessly, with tight timescales being met as promised. Their standard of workmanship is up there with the very best and we wouldn't hesitate to use them again in the future.*

Don White, Kier



”

**Established  
1962**

# Our HERITAGE

*Experts in your field*

Following five decades in the industry, the name William Morfoot Ltd has become synonymous with excellence in land drainage and water management. Providing complete design and installation, our exceptional reputation has been hard-earned – built upon consistent health and safety standards, meticulous organisation and a proven track record on delivering all that we say we will, on time.

**Trusted by landowners and farmers** the length and breadth of the UK, we harness the latest in modern drainage technology and machinery for technical accuracy and aesthetic finesse.

Our team value craftsmanship and quality. With a meticulous eye for detail, they provide precision control over the practical delivery 'out on the ground', backed up by a renowned design and management team, who guarantee a smooth project from concept to completion. Combined, these factors place us in the perfect position to provide remedial drainage solutions, partnering with you to deliver your project.

## CIVILS SECTOR SERVICES

■ **Consultancy and drainage scheme design** for fields and countryside affected by underground utility routes.

■ **All practical aspects of remedial drainage work**, including pre- and post-construction drainage systems on cross-country cable and utility routes. This includes land drainage, ditching and all other aspects of water management associated with mainstream agriculture.



■ **Specialist trenching services** for installation of underground utilities in arable land.

## A PROVEN TRACK RECORD IN CIVILS PROJECTS

At William Morfoot Ltd, we appreciate the unique demands of civils-based land drainage and water management. Having worked as trusted partners alongside a long line-up of contractors, we are in prime position for any project involving the above expertise.



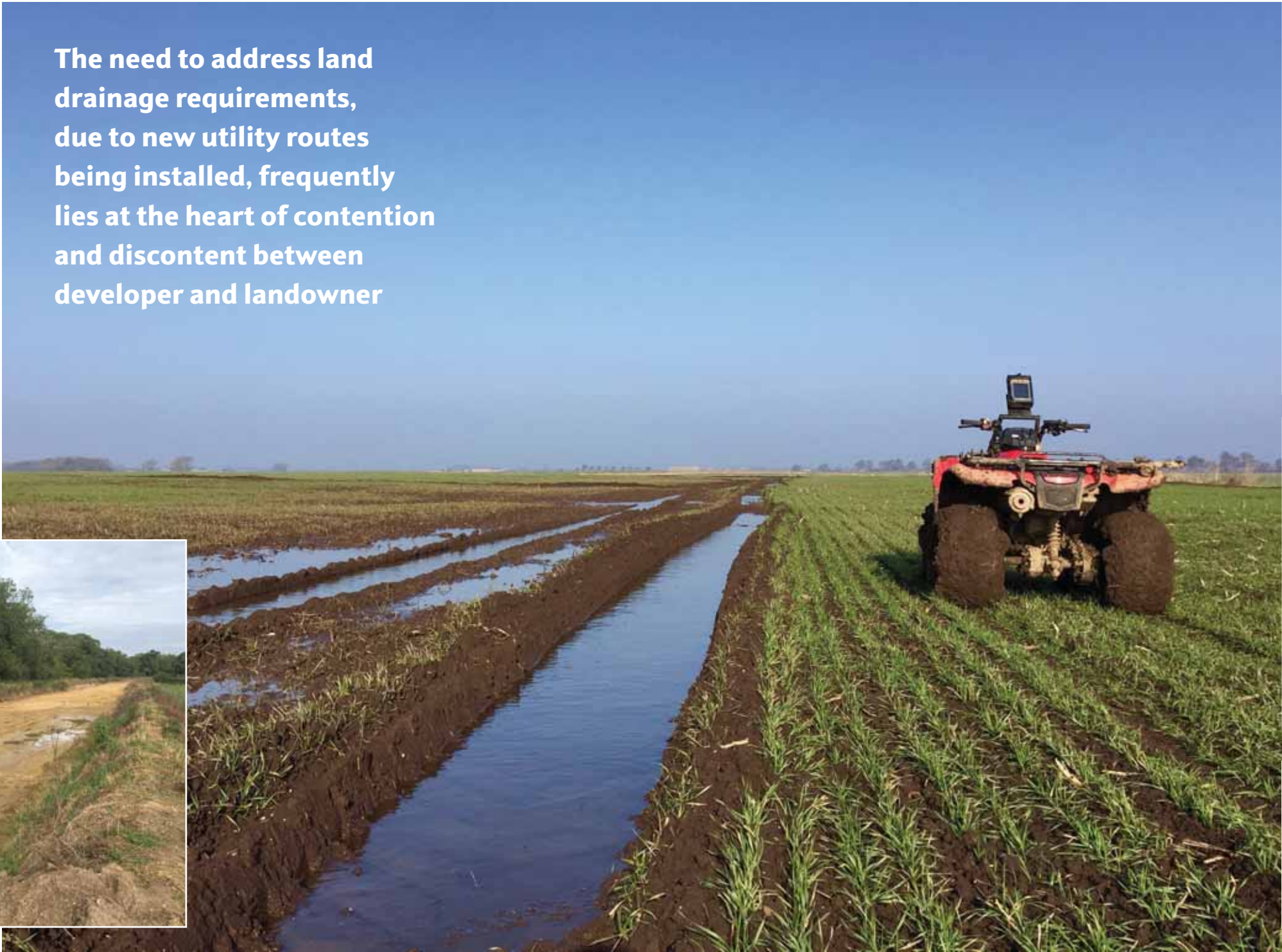


# Crucial DRAINAGE

*Soil. It's precious*

**Cross-country utility routes** have the potential to severely disrupt the essential structures within soils, which in turn can lead to imbalance – upsetting the intricate fissures and natural drainage cavities which have developed over many generations of caring for the land responsibly. The gravity of the situation is not to be underestimated, yet often the importance of land drainage systems is not given the weight it deserves by those outside of mainstream agriculture.

Our trusted reputation within the farming community serves as the connection between landowner and developer. We have 50 years of history in ensuring that land is returned to landowners as they want and expect it to be, and for those soils to be farmed just as they were before our arrival. ►



**The need to address land drainage requirements, due to new utility routes being installed, frequently lies at the heart of contention and discontent between developer and landowner**

It's mission-critical that any civils project taking place on arable land makes adequate provision to ensure the soils are returned to the landowner as good as they were before the project took place – at the very least. Farmers rely on the quality of their soil for the success of their crops, quality achieved through an exacting balance of air, water and nutrients – each of which must flow freely.



**Getting it wrong is not an option. We are proud of every project we deliver – delivered well and delivered right (first time).**



# Crucial DRAINAGE

We deeply understand land drainage. We can advise and deliver on every aspect of future drainage requirements, such as:

- **Management of existing land drainage schemes** around the utility route.
- **Assessing the need for new drainage schemes** to ensure that long-term yields are not affected.
- **Assessing the wider farm scale impact** on the effective movement of drainage water around the fields towards the watercourse.
- **Introducing systems which work** for both landowner and utility project alike.
- **Ensuring that the critical core issue of providing drainage schemes which function effectively in**

**conjunction with the presence of new utility schemes is met** – with an emphasis on managing the relative heights/positions of drains and utilities to allow both to function at optimum efficiency.

- **Delivering drainage schemes which work for the longer term** – ensuring land is handed back to landowners in a fit state to match their long-term aspirations for the future of their fields.

No two fields are even remotely the same. Soils and topography vary, and sometimes they can vary significantly within a single field. We appreciate the need to design and implement fully bespoke drainage schemes for each and every field we work within.





# Assessing Understanding PLANNING

*Information detail*



The design and survey stage is vital to ensure the project is set on a firm footing. The survey marries together a broad array of factors, such as:

- **Existing drainage maps and plans.**
- **Local knowledge** of farmers and landowners.
- **Topographical data**
- **Understanding and mapping** the possible presence of existing underground utilities including gas, telecoms, water and electricity, amongst others.
- **An intimate understanding** of all surrounding watercourses and ditch systems.
- **Understanding and considering the precise impact** that new utilities will have on existing field drainage infrastructure.
- **Understanding underlying soil types** and other intricacies of the soils.
- **Using the survey as an opportunity** to build a working relationship between us and the landowner.
- **Using the survey as a platform** to consider and discuss broader project issues, including:
  - **Field access.**
  - **Stone and material stockpiling locations.**
  - **Possible interaction with existing private apparatus** – including private irrigation feeds and water supplies as well as other private utilities.
  - **Sensitive issues** – such as understanding where we should and should not travel, and the avoidance of environmental stewardship areas.



“

*William Morfoot must be one of the best contractors I have had working on the reserve. They did everything that was asked of them and more, and were very sympathetic to the sensitive nature of the site; I cannot recommend them highly enough.*

Tim Sutton, Reserve Manager  
Natural England, Collyweston  
National Nature Reserve

”

## THE MEETING

Our surveys begin with a preliminary meeting with the landowner or farm manager to gather as much information as possible from those who know the land best.

## THE SURVEY

Using Trimble and Topcon GPS equipment, we record topographical data from the areas in which we will work. We may also use Quad bikes, ATV's and photographic equipment. Most importantly, we spend time on the ground familiarising ourselves with the soils in your field considering carefully how drainage may be impaired as a result of the planned project taking place.

## DATA ANALYSIS

The topographical data is then transformed into detailed contour maps and proposal plans using cutting-edge mapping software, to visualise what's happening out on the ground. The detailed survey drawings



give a transparent and completely accurate representation of what is happening within the field - allowing for subsequent proposals to be prepared based on fact sourced from the field.

## PROPOSAL PLAN PREPARATION

Supported by contour maps and other relevant information, this proposal will offer a clear, transparent justification as to why the scheme has been designed as we have drawn it.



## OUR SCHEMES. YOUR WAY

Our survey drawings are provided in both digital and paper format, ensuring seamless integration with other project drawings.

## SUPERIOR PLANS

Our plans use Ordnance Survey base layer mapping information to provide accurate, easy to recognise foundations, meaning we display key information at the heart of our proposal drawings.



# Local KNOWLEDGE

*Fostering positive relationships*

The success of any cross-country utility project depends on the relationship between the contractor and the landowner. Our existing relationships with thousands of happy landowners doesn't just place us in a positive position for the preliminary meeting, it's often key to the meeting being agreed to in the first place.

## **Reassurance. Comfort.**

That's what the Morfoot name means to many within the world of agriculture. Landowners are understandably anxious to know that the companies involved with working on their land are competent. William Morfoot Ltd is a name that is known and respected by farmers throughout the whole of the UK.

All the farmers and landowners that we work with know that we take our responsibilities seriously and have a long-standing positive track record in what we do. Our involvement in projects provides certainty to landowners that their proposed drainage projects will be delivered with professionalism, quality and accuracy – ensuring that their land is handed back to them in the best possible state after the project is completed.

## **Communication is key.**

Always. Which is why we discuss our survey findings at an early stage, addressing any preliminary or ongoing concerns directly with the landowners as the project progresses and the scheme design unfolds.

## **Utility routes bring unwanted disruption and disturbance to landowners, which can be stressful.**

It's our role to look closely at how we can deliver our element of the work in the best way possible. This means meeting the needs of both the project and the landowner alike – ensuring the best possible outcome for both parties.

## **Our reputation is staked upon the successful delivery of your project.**

We know that one poorly planned, problematic project could impact negatively on our own reputation. With the farming industry being a small, tight-knit community, it is non negotiable to us to deliver any of our projects badly – ever, as we plan to continue working with our farming clients long after the completion of any civils project we are involved in delivering.

## **Cross-country utility routes can often provide new introductions and work opportunities beyond your original project.**

These opportunities don't come along every day. When they do, we treat them as a chance to cultivate an ongoing relationship with outstanding project delivery.

**Opportunity  
Communication  
Delivery**



# Our EQUIPMENT

*Investing in excellence*

**You have high expectations, and rightly so.** Your contractors should not only have equipment that conforms to rigorous health and safety standards, but that also features the very latest technology.

## OUR TRENCHERS

We have a fleet of modern Mastenbroek trenching machines that cut trenches to 2.5m deep and up to 450mm wide. Our trenching machinery is suited to a broad array of soil types, and is fitted with Trimble GPS guidance – offering consistent accuracy for position and depth. Equipped with gravel hoppers, these machines remove the risk of trench collapse, prior to the permeable fill being applied over the new drainage pipes.

## AID SYSTEM

Heightened ‘under the hood’ accuracy, this sophisticated piece of technology is installed in all our trenchers, allowing us to achieve perfect accuracy in drain gradients, even when working in soft or unstable subsoils. Without this system, drains have a risk of subtle undulations along their length, which upsets the natural flow of water through the drain.

## OUR CHASER CART

A custom-built, high-capacity trailer for transferring aggregate between two locations. A UK first for the drainage industry, our chaser cart ferries stone between outlying stone storage pads to field. Commended by our clients, this machine allows excellent versatility and outputs, whilst reducing the risks

and hassle traditionally associated with dragging mud and debris out of a field and onto a highway.

## ANCILLIARY KIT

We have a fleet of dedicated specialist ancillary equipment for smooth, effective project delivery, including tracked gravel carts and low ground pressure-wheeled gravel carts for servicing drainage projects, along with a fleet of excavators and other specialised support equipment.

## KEEPING OUR OPERATIONS (AND YOUR PROJECT) GOING

Specialist equipment requires specialist ongoing care and maintenance. Our engineers and mechanics are ready to rapidly resolve any issues that may occur with our equipment, while our specialist IT software – Fleetcheck – records all maintenance work, offering a full service history at a glance, and providing servicing/inspection alerts.

Ongoing investment is at our core. Today we offer one of the **best fleets** of high capacity, dedicated drainage machinery in the UK



*William Morfoot Ltd's knowledge and experience was apparent from the outset and, in particular, the standard that all their staff operated to was exceptional.*

Marc Isgate,  
Carillion





## Our EQUIPMENT

“

*The quality of their work speaks for itself and we are very pleased indeed with the end result.*

I. Monson, Oxborough Farms

”





# Health and SAFETY

*The core of our operations – day in, day out*

We are acutely aware of the perfect storm that forms when working on projects using large machinery in a high risk sector combines with changing weather and poor ground conditions.

**We are meticulous in our approach to health and safety**, ensuring that all risks are managed and minimised wherever and however possible. We could allow our exemplary health and safety record to speak for itself, but we're never ones to rest on our laurels. Complacency is a sure-fire route to what could be a serious health and safety breach, and so we are committed to routinely and continually assessing our operations to make changes for the better.

## GETTING THE BASICS RIGHT

We run tidy, highly organised sites, with detailed and comprehensive safe systems of work in operation at all times. Our employees enjoy ongoing staff development, and are expected to look out for and help each other in ensuring the safe delivery of our operations. They are supported by the management team in introducing and implementing better systems to improve safety.

## STAFF TRAINING AND EDUCATION

Training courses and ongoing education form a central part of



“  
*The safe and responsible delivery of any project we are involved in is not an aspiration, it is an expectation.*  
”

Tim Sisson, Managing Director, William Morfoot Ltd



developing our staff each year. First Aid, Cat & Genny, CPCS tickets as well as IOSH and NEBOSH certification are just a few examples of the areas in which we train our staff on an ongoing basis. Key staff also hold specialised training in other critical areas, such as working in confined spaces. Where required, we always bring in specialist assistance to adhere to current legislation, ensuring we have the appropriate supervision and dedicated assistance direct from the relevant utility companies when crossing high risk buried services - such as high pressure gas mains. Our staff are all highly familiar with official guidance documentation produced by the HSE - such as HSG 47 relating to the requirement for hand digging techniques when working around existing buried apparatus.

## DETAILED, ROBUST LEVELS OF PLANNING

We build this into the day-to-day delivery of your project. Service Clearance is completed on all our sites prior to our teams starting work, to identify buried utilities which may be present. These checks are done to **PAS 128 standards** – underlining the importance we place on this key area of our operations.

## COMPREHENSIVE AND DETAILED RISK ASSESSMENTS

Risks are identified at the outset and communicated clearly to our teams during toolbox talks and daily site meetings. Our experienced staff have been trained to manage these risks responsibly at all times.

## METHOD STATEMENTS AND SAFE WORKING PRACTICES

Each individual employee is provided with detailed method statements highlighting safe working practices. We also encourage our staff to apply sound levels of common sense to the way they are working at all times and to look out for each other as they go about their work.

## DEVELOPMENT OF SAFE SYSTEMS OF WORK

We set the bar for others to follow, from the beginning and have worked hard to continuously develop and improve our way of working. This has been achieved through a combination of staff training, the provision of the latest and safest in modern technology and ongoing monitoring and improvement.

## MONITORING AND ROUTINE ASSESSMENT FEEDBACK

We do this so that we can continue to make changes for the better. Feedback is encouraged from all staff and we undertake our own routine site checks to ensure that the standards that we put in place are being adhered to.

## A ZERO TOLERANCE APPROACH

Any breach in safe working procedures is viewed with the utmost seriousness within our company. The safety of our workforce and others that we work alongside as we deliver our projects remains our number one priority each and every day.



# Meet our TEAM

*Passion. Experience. Expertise*



**William Morfoot Ltd is ACHILLES CERTIFIED.**  
We receive an annual independent audit by the ACHILLES team to verify our systems and processes



**Our team are central to the success of every single project.** We recognise their importance and embrace their experience, skill and potential. We build, nurture and develop our team, who, in turn, are the client-facing representation of our values and principles.

Our team are **proud** and **passionate** about the projects they are involved in – taking pride in developing meaningful working relationships in their everyday.

Our culture **encourages** the advancement of **talented** team members, who are comprehensively trained for their roles both in-house and externally.

Ongoing **feedback** and internal **development programmes** support our people, in order that they can progress and evolve, while regular staff reviews form an intrinsic and vital component of pushing for continual staff development and change implementation.

Our clients regularly tell us that our team members are **friendly**, **helpful** and **proactive**. And we know that they regard the quality of their workmanship to be the cause of any positive feedback we are likely to receive. There is a **shared common goal** amongst our team to deliver quality projects to the highest of standards, with **strong communication** high on the agenda.

Our team are the **heartbeat** of all our company stands for. They are the backbone to our growth and behind everything our company has been able to achieve in delivering projects of all shapes and sizes.



# Case STUDY

## *The Dudgeon Cable Route*

Located 32 kilometres off the coast of Cromer, North Norfolk, the Dudgeon Offshore Wind Farm is part of an Ofgem/UK Government-launched regime to achieve £700 million in consumer savings.



*We found their attention to detail outstanding and they were a pleasure to work alongside.*

Steve Parlett,  
Bell Ingram LLP



### **Dudgeon Offshore Wind Farm**

#### *Key stats and facts*

**Award:** UK Round 2 Licence

**Water depth:** 18 – 25m **Mean waves, Hs:** 1.1m

**Average wind speed:** 9.8m/s

**Installed capacity:** 402MW

**Offshore export cable length:** 38 km

**Export Grid:** 132kV **Onshore cable length:** 48km

**Turbine:** 6MW **Foundations:** Monopiles



### **THE CLIENT**

Owned and operated by Equinor, alongside co-owners Masdar and China Resources (Holdings), the project represents a £1.4b power plant, developed over five years – from 2012 to 2017.

Completed in late 2017, this 402MW, 67 x 6MW wind turbine farm has generated ample green, clean energy to power more than 410,000 homes. The electricity that is generated from the Dudgeon Offshore Wind Farm is transmitted to an onshore substation, where it then enters the National Grid. ►





# Case STUDY

## THE PROJECT

The transmission begins with a seabed cable, which transmits the electricity from the offshore substation to landfall at Weybourne Hope, North Norfolk. From this point, an underground cable carries the electricity to a further substation on the outskirts of Necton, a village near Swaffham in the

Breckland district of Norfolk.

The cable runs for 30 miles and is buried in ducting at a depth of 1.4m under land which belongs to 44 individual landowners. William Morfoot Ltd were involved in delivering land drainage solutions along the cable corridor and across the onshore cable route.

## OUR INVOLVEMENT

Our teams were involved in the scheme surveying, design and provision of drainage solutions along the route from an early stage. Working alongside landowners from the very beginning, we endeavoured to understand their concerns and to ensure that existing drainage infrastructure was understood



“ We had several fields affected by the Dudgeon onshore cable route and we were impressed with the way William Morfoot Ltd delivered our critical drainage requirements from start to finish.

Adrian Howes  
Farm Manager,  
Sennowe Estate,  
Norfolk

”

in detail. We moved ahead with the pre-construction drainage systems, which were installed along the route to facilitate the laying of new cables. Post construction drainage followed, with the land subsequently being returned to landowners to allow farming operations to resume again following completion of the project. Testing weather conditions experienced throughout the project demonstrated just how critical adequate drainage was for managing the water that would run the length of the cable route. Throughout every project milestone, we met timescales and even extended our services to additional parts of the project as it progressed.





# Project LEGACY

*Getting it right first time, every time*

**Contractor selection is everything on a civils project**



**We lead from the front** by setting new standards of safe working. By embracing technological change we go beyond securing efficiencies, to enhancing safety. By nurturing and training our team on an ongoing and progressive basis, we strive to reach the level of expectations we know you have of your contractors.

**Health and safety is at the fore of everything we do – it's built into the inner core of our working systems.**

**Our people are central to how we work.**

Communication and regular interaction with everybody connected to our projects is part of our modus operandi.



**Any civils project** likely presents major logistical challenges. We will work with you to build relationships and create meaningful team-based collaboration for an effective, targeted delivery of your project – on time and to budget.

**Our loyalty to these qualities** is reflected in the level of business we receive from repeat clients – each of whom value our level of service. These qualities, along with our decades' long proven track record, provides clients with the confidence they seek in the contractors they commission. These values are also at the centre of the many partnerships we've forged in both the civils sector and landowning community alike.

**Results and reputation are everything.**



**We work hard to overcome any issues head-on.** And we work even harder to prevent problems from developing in the first place (which we do by investing time and energy in carrying out considered and comprehensive planning before we start).

**Reputation counts for a great deal** within our highly specialised sector of work. We are constantly judged on the way in which we deliver our work (and so we should be). Our reputation depends on word-of-mouth recommendations, key to which must be the delivery of high-quality projects through everything we are involved in.

**The legacy of our workmanship will unquestionably be judged for generations to come. We are passionate about ensuring that we leave behind a finished product which we ourselves are proud of.**





## Get in TOUCH...

---

If you would like to find out more about our land drainage and water management services, you can reach us at:

**team@williammorfoot.co.uk**

**01362 820371**

**William Morfoot Ltd**

Shipdham  
Thetford  
Norfolk IP25 7SD

**williammorfoot.co.uk**

