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VolkerWessels UK online
To view this review online visit:
volkerwessels.co.uk/2015annualreview

# 2015 key project highlights

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LAMDA

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VolkerWessels UK 2015 annual review

Overview and highlights

Our business at a glance

-

# Our business at a glance

VolkerWessels UK is a multidisciplinary contractor that delivers innovative engineering solutions across the civil engineering and construction sectors including rail, highways, airport, marine, energy, water, and environmental infrastructure.

VolkerWessels UK brings together best practice through six business units: VolkerFitzpatrick, VolkerRail, VolkerStevin, VolkerHighways, VolkerLaser and VolkerInfra. These businesses each have a long and successful heritage built on delivering quality and bespoke projects as well as providing specialist skills, plant and equipment. Our success is founded on our ability to deliver in challenging environments and regularly winning repeat business from established clients.

#### Financial highlights

In 2015, VolkerWessels UK had another successful year:

- Revenue increased by 14% reflecting increased volumes delivered
- Operating profit margins improved despite ongoing market challenges
- Significant improvements in cash position continued with a dividend of £40 million paid during the year
- Strong secured and probable order book reflecting longer term committed revenue with an increased pipeline of opportunities

## Key highlights for the group in 2015

The key to our success is working closely with our partners, employees and the communities in which we work, to deliver quality and sustainable engineering and infrastructure projects:

- Committed to membership of the 5% club
- Received two RoSPA gold medals and three gold awards
- Achieved 14 Considerate
   Constructors Scheme Awards
- Achieved a 20% improvement in carbon footprint per £1m of turnover from 35.1tCO<sub>2</sub> to 28.1tCO<sub>2</sub>.

£901 million

Secured order boo

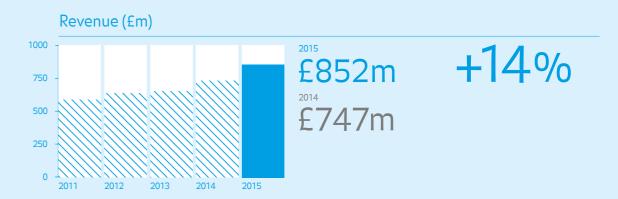


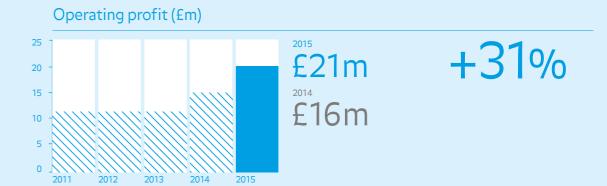
Visit p7 for full details

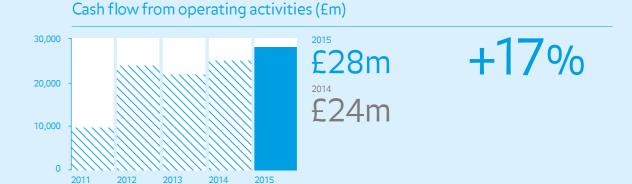
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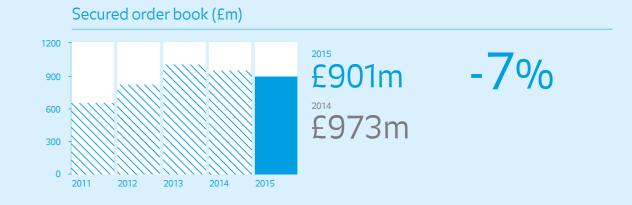
Accident Frequency Rate (AFR)

20% Improvement in carbon footprint









VolkerWessels UK 2015 annual review Overview and highlights Our business model

# Our business model

Collaboration is at the heart of what we do. Sharing best practice and drawing on the specialist skills of each business to deliver a truly integrated service to our clients.



Rail infrastructure



Marine, energy, water and environmental infrastructure



Highways and airport infrastructure



Construction for commercial, industrial and education

By utilising the specialist skills of each business within VolkerWessels UK, we are able to provide unrivalled resources and expertise to our clients. This collaborative approach allows us to provide a truly integrated quality service.

Our people are the foundation of our success and we continually invest in their development to ensure our staff have the knowledge and skills to deliver innovative and effective engineering solutions.

Business	Sector	Managing directors	Trading companies	Joint ventures
<b>₩</b> VolkerWessels UK		Alan Robertson, Naomi Connell, Matt Woods	VolkerServices Limited	
VolkerFitzpatrick		Richard Offord	VolkerFitzpatrick Limited VolkerFitzpatrick Overseas Limited	Align
<b>₩</b> VolkerRail		Steve Cocliff	VolkerRail Limited VolkerRail Specialist Business Limited	Staffordshire Alliance, REAL Alliance, MPT, Varsity Alliance
VolkerStevin		Rob Coupe	VolkerStevin Ltd. VolkerBrooks Limited VolkerGround Engineering Limited VBA Joint Venture Limited	C <sub>2</sub> V+, VBA ,VSBW, VSD Avenue
VolkerHighways		Alistair Thompson	VolkerHighways Limited	CVU
<b>VolkerLaser</b>		Mike Weaver	VolkerLaser Limited	
<b>VolkerInfra</b>		Jonathon Humphries	VolkerInfra Limited	

2,500+
Employees

15.5 million
Man hours worked in 2015

Strategy and direction Chief Executive's statement

# Chief Executive's statement

Continuous delivery

of growth



I am pleased to report that VolkerWessels UK has recorded its sixth consecutive year of growth. This is a direct result of maintaining a consistent strategy focusing on delivering cash backed margins, combined with winning a number of multi-year frameworks.

In the year to 31 December 2015, our revenue grew to £852 million and operating profit increased to £21 million, an increase of 14% and 31% respectively over the previous year. This reflects a strong demand for our services and good results throughout all our business units.

Through close collaboration with clients, VolkerWessels UK has built an enviable reputation for delivering quality projects across a wide range of disciplines.

Our success in delivering excellence and value for our clients as we strive to provide comprehensive benefits for all our stakeholders is at the forefront of our business.

We pride ourselves on our strong safety record and I am pleased that our risk management processes continually reduce the risk of failure and injury to our staff.

With our results continuing to improve, our future is backed by good liquidity and a strong order book, underpinned by long term frameworks

£ million	2011	2012	2013	2014	2015
Revenues	666	691	697	747	852
Gross Profit	52	55	53	61	67
0/0	7.8%	8.0%	7.6%	8.1%	7.9%
Operating Profit	12	12	12	16	21
0/0	1.9%	1.8%	1.7%	2.1%	2.4%
Net Cash	46	58	76	92	77
Net Assets	62	71	80	102	80
Secured Order Book	649	819	1,005	973	901
Secured and Probable Order Book	1,073	1,182	1,363	1,825	1,522

Alan Robertson Chief Executive Officer VolkerWessels UK



# Delivering complex and innovative programmes

Each year we undertake a large number of significant construction projects and multi-year frameworks, each with their own unique challenges. We address these by remaining consistent in our approach and delivery, all of which is underpinned by the values that make us distinctive.

Our skills play a major role as we help our clients deliver complex and innovative programmes. Our multi-disciplinary approach to engineering solutions across our key markets helps us meet and exceed the expectations of all our stakeholders by providing specialist skills and equipment through one integrated team.

Our multi-disciplinary approach to engineering solutions across our key markets helps us meet and exceed the expectations of all our stakeholders.

Our clients in the rail industry face a significant demand to both renew existing railway infrastructure and deliver new programmes with the added complexity of interfacing with existing services. A good example of our innovative and collaborative approach is the delivery of the Three Bridges depot for Siemens on the Thameslink programme.

Within the highways and airports sector, our clients continue to improve and maintain the UK road network, whilst also planning for future growth. Over the past year, our highways maintenance teams in London have helped deliver a number of new cycle superhighways as well as improvements to London's roads.

Our marine, energy, water and environment clients are also facing numerous challenges as they increase capacity. An example is our work to extend berth nine at The Port of Felixstowe, allowing the port to accommodate two of the world's largest container ships simultaneously.

With yet more flooding over the recent winter, our clients worked extensively to protect the 'at risk' communities. I am proud that our teams formed part of the relief effort and I would like to thank our dedicated staff who spent their Christmas tirelessly helping local communities in Cumbria and Lancashire during the recent floods.

After a period of uncertainty in the industrial construction sector, we are pleased to see signs of increased investment. 2015 saw VolkerFitzpatrick complete a 100,000 m² distribution centre in Daventry for one of the country's largest supermarkets, having already provided much of the surrounding infrastructure.



# Milton Keynes residual waste treatment plant

VolkerFitzpatrick was commissioned to construct the facility in Milton Keynes that will tackle 'black sack' waste and turn it into usable energy. Once fully operational, the facility will generate approximately 7 MW of renewable energy of which around 5.8 MW will be exported to the National Grid.

#### Business

VolkerFitzpatrick

#### Client

AmeyCespa



"During the sixth consecutive year of generating quality margins, we were able to pay a dividend to our shareholders whilst retaining good liquidity and a sound financial position."

Naomi Connell Chief Finance Officer VolkerWessels UK 10 VolkerWessels UK 2015 annual review Strategy and direction Chief Executive's statement

# Our vision is not to be the biggest; but to be the best.

#### Our vision for the future

We have built an enviable reputation for completing quality projects. People are now talking about us and we regularly work with repeat clients that know we can deliver. Our vision is not to be the biggest; but to be the best.

The UK government's focus on infrastructure investment is a key enabler for our future, offering a number of significant opportunities in our sectors.

To be able to overcome the challenges we face, we have further developed our 'Vantage Business Model', pictured right. The objective of this model is to achieve a better leadership position in the industry.

#### Strengthening foundations of excellence

At the base of our business model are the foundations that underpin everything we do. The first levels of our foundations are formed by the combination of good corporate responsibility, our talented and dedicated people who are backed by strong systems and processes.

Our comprehensive focus on corporate responsibility is all about protecting our people and the environment in which we work. It focuses on the health and wellbeing of our people.

Across VolkerWessels UK, our businesses operate a number of health and safety initiatives designed to provide help and advice to staff on staying safe in particular working environments. These work hand in hand with the work we carry out at a group level and the national campaigns we support.

Our people, culture and values are the backbone of everything we do. We recognise that to make VolkerWessels UK an industry leader, we need to recruit, develop and retain exceptional people that share the right core values and culture. A large number of our people are undertaking leadership, management and professional courses to enhance their skills. In addition to this, 9% of our current workforce are apprentices, sponsored students or graduates on formal training schemes.

By continuously investing in excellent systems and processes, we make sure that our quality, design, operational and back office processes are all efficient and effective to help us become the industry's best.

The second layer of our foundations is what we believe makes a successful contractor really stand out. It is about balancing risk management with engineering and operational delivery. By taking risk management to a new level, it enables us to stand out from the competition, it protects us and improves results.

#### Targeting pillars of growth

To drive our performance further, we have identified some areas that we believe are key to VolkerWessels UK. By targeting these pillars individually, it will give us the advantage in the marketplace to become the contractor of choice.

Exceeding expectations means being industry leading in efficient delivery for all our stakeholders. Driving innovation is about bringing innovative solutions to the forefront. We want our people to look for innovations in engineering solutions and to think outside the box.

Encouraging entrepreneurship is giving our people the confidence to come up with new solutions; to be innovative and explore new lines of business and markets.

Enhancing collaboration means working together internally, with our partners and supply chain to come up with optimal solutions.

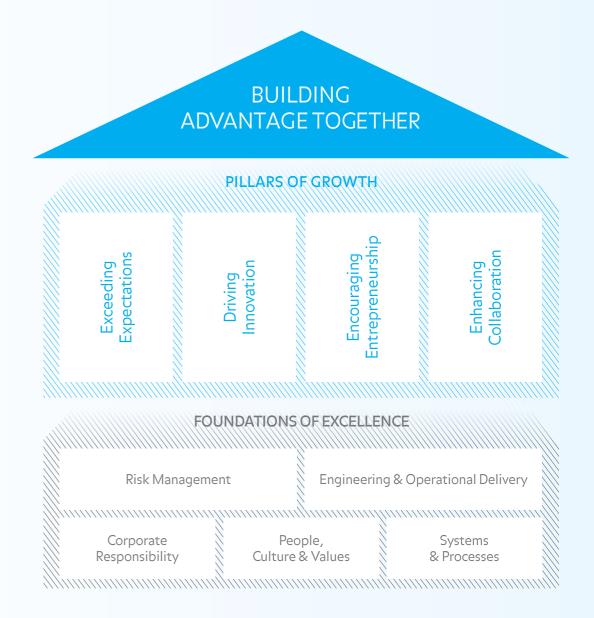
#### Building advantage together

To achieve this strategy we need to make sure that all the elements of the Vantage Business Model are firmly locked together. This means managing the growth of our pillars together and ensuring we do not overstretch ourselves. The optimum outcome occurs when all foundation blocks are working in harmony, with a consistent focus on the pillars of growth to 'build advantage together'.

With this strong vision, I am confident that in close collaboration with our clients, supply chain and stakeholders, we will seek out ever more sustainable and innovative solutions for the delivery of tomorrow's infrastructure

Alan Robertson Chief Executive Officer VolkerWessels UK

# The Vantage Business Model



I would like to thank our employees, our partners and all our stakeholders for their part in making 2015 a very successful year for VolkerWessels UK.



"We have a set of policies and procedures in place that mitigate the risks we encounter as a business."

Matt Woods Group Commercial Director VolkerWessels UK

# Corporate responsibility and our people

VolkerWessels UK is committed to maintaining the highest of standards throughout our business activities and we recognise that we have a responsibility to our people and the communities in which we work.

People are at the heart of our success. We are continuously investing in the development of our people and the systems and procedures that help them carry out their work.

We do this by providing a supportive, challenging and rewarding working environment in which employees reach their full potential and develop their careers with us.

#### Recognising and rewarding excellence

It is important that we recognise our achievements through praise and reward.

In addition to the internal appreciation of our staff and projects, we have received a variety of industry awards for our work across the country from a number of well-known organisations.

For news of our latest awards please visit volkerwessels.co.uk.

In August last year we became a member of the 5% Club, an industry led initiative to encourage the recruitment of young people. Members of the initiative pledge that 5% of their total workforce will be made up of apprentices, sponsored students or graduates on formal training schemes within five years of joining. Staff across VolkerWessels UK which meet this criteria total 9% of our workforce.



#### Selected awards

#### British Safety Council International Safety Awards

# Distinction

VolkerRail

#### Merit

VolkerFitzpatrick

#### Considerate Constructor Scheme Awards

# Gold award

VolkerFitzpatrick

#### Silver award

VolkerFitzpatrick (3 projects) VolkerStevin

MPT joint venture

VBA joint venture VSD Avenue

#### Bronze award

VolkerFitzpatrick (2 projects) VolkerStevin (2 projects) VolkerHighways VolkerLaser

#### RoSPA Awards

#### Gold medal

VolkerFitzpatrick VolkerHighways

#### Gold award VolkerRail

VolkerStevin VolkerLaser

## MORR Gold award

VolkerRail

# Green Apple Awards

#### Gold award VolkerFitzpa

VolkerFitzpatrick VolkerHighways

#### Silver award Staffordshire Alliance

VolkerWessels UK places great importance on the recruitment and retention of skilled and motivated people. We offer young people a range of training and development opportunities from site based on-the-job apprenticeships to university degree programmes with industry experience.

# Recognition highlights leuan Jones

VolkerFitzpatrick engineer, leuan Jones won the Civil Engineering Contractors Association (CECA) Most Promising Trainee Civil Engineer 2015 award for the southern region.

#### Tom Willet

VolkerRail junior track engineer, Tom Willett was awarded the Construction Industry Training Board (CITB) National Skills Academy Apprentice of the Year Award. Tom received the award whilst studying at the VolkerFitzpatrick skills academy at the Stoke Gifford IEP project.

# **leuan Jones**



Tom Willett





## Developing and protecting our people

We continually strive to prevent work related injuries and ill-health of our employees and anyone associated with our activities. It is important for us that we do this to continually improve their wellbeing and develop their skills.

Our commitment to maintaining the highest standards of health and safety has been widely recognised. In 2015, our companies were rewarded for their commitment by RoSPA (Royal Society for the Prevention of Accidents) with two gold medals and four gold awards. The British Safety Council also awarded VolkerRail a distinction and VolkerFitzpatrick a merit.

To ensure the welfare of our employees remains at the top of our agenda, we employ dedicated occupational health nurses who provide a full range of services from health surveillance to advice on wellbeing.

We work with a number of safety industry bodies to ensure our sites and people are safe





Alongside our group wide occupational health campaigns, our businesses operate their own behavioural programmes. The VolkerFitzpatrick 'Injury and Incident Free', VolkerRail 'AIM' (Attitude, Influence, Management), VolkerHighways 'Protect our People' and the VolkerStevin 'Safety Ripple' initiatives drive cultures which promote safe working practices.

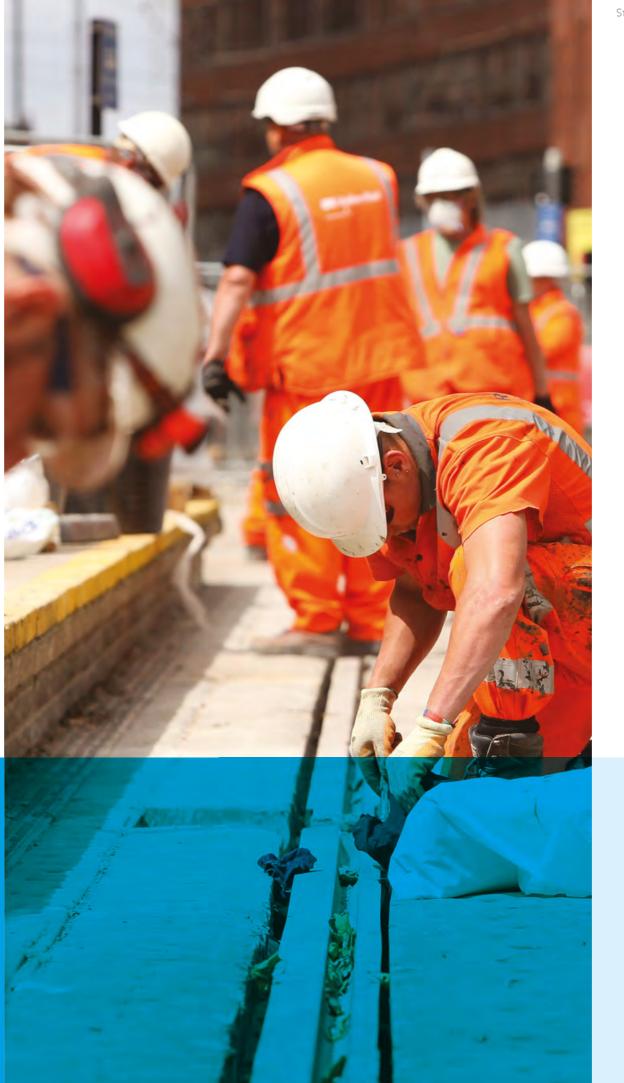
Across VolkerWessels UK there are many examples of staff undertaking training as part of their day to day roles. One of the most successful examples of this is the CITB accredited skills academies at the VolkerFitzpatrick projects at the Stoke Gifford and Swansea, Intercity Express Programme maintenance facilities.

These academies offer staff and subcontractors on the project the opportunity to develop a variety of skills and qualifications. In the two years the academies have been active, we have created 30 opportunities on site for work experience, apprentices and graduates. This is in addition to the 93 site based and NVQ training courses provided to our staff and local subcontractors.

VolkerWessels UK also donates £1 to Mencap for every hazard, near miss or close call report submitted. Since the initiative began in 2013 over £26,000 has been presented to the charity.

Alongside the support for Mencap, our businesses and their staff regularly take part in fundraising and sponsorship opportunities that benefit both local and national charities.

VolkerFitzpatrick operate two successful CITB skills academies. VolkerRail also opened their overhead line electrification training centre in Doncaster to address the rail industry skills gap.



We strive to be as



Our overall carbon footprint for 2015:

responsible as possible

24,742.1 tonnes

This is a reduction of:

9.1%

## Promoting environmental responsibility

We are aware of the effects that our activities can have on the environment and accept responsibility for future generations by limiting our impact. Through many initiatives we continually aim to be as socially and environmentally responsible as possible, maximising opportunities for enhancement and mitigating adverse impacts on the environment.

We work with our supply chain and partners to develop innovations in our working practices and products used, which result in benefits to the environment.

Working together with VolkerFitzpatrick and supply chain partner Tarmac, VolkerHighways have recently introduced a new binder asphalt that can be delivered to site at a much lower temperature. This results in lower CO<sub>2</sub> production with less energy required to maintain a higher temperature.

VolkerFitzpatrick and VolkerHighways were recognised for their commitment to environmental sustainability by the Green Organisation. Both companies were awarded a Green Apple Award in 2015. The VolkerRail joint venture, The Staffordshire Alliance, was also presented with an award.

We seek to continually improve the energy efficiency of our activities, goods and services through a more sustainable use of electricity and fuel. This includes the promotion of alternative specifications and technologies, to improve the energy efficiency of structures we design and build.

Our commitment to maintaining the highest standards of health and safety has been widely recognised with high profile awards across the industry. We actively support charities and good causes both locally and nationally. Our aim is to add value to society, inspire others and support colleagues, clients and suppliers in their own efforts to share time, develop skills and make the best use of resources.



Our experienced site staff regularly work with apprentices and graduates to provide insight into the industry Considerate Constructors
Scheme Awards received
in 2015

From 61 Considerate Constructors
Scheme audits we achieved an average score well above the industry average.

39.41

5.58 VolkerWessels UK dustry Average

# Engaging with the community

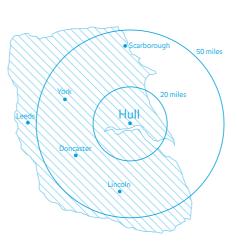
The community and local areas in which we work are an important part of all VolkerWessels UK projects. We aim to minimise the effects of our work on local people as much as possible, whilst maintaining positive and consistent communication with affected residents and businesses. We complement the work we do on site with a number of outreach programmes and local labour recruitment initiatives.

From 61 Considerate Constructors Scheme audits, we achieved an average score of 39.41, against an industry average of 35.58.



In 2015, we were awarded 14 National Site Awards from the Considerate Constructor Scheme. This includes a prestigious Gold award, presented to VolkerFitzpatrick's team at IEP Stoke Gifford. The scheme recognises the contribution sites have made in improving the image of the construction industry.

During the construction of the wind turbine blade factory in Hull, we are supporting a local workforce



Working at a local level

As part of our commitment to local residents around our projects, we work with clients on a number of sites to set benchmarks for the employment of local labour. At the VolkerFitzpatrick wind turbine factory site for Siemens, we have pledged to employ 25% of the site workforce from within 20 miles and 40% from within a 50 mile radius. As of January 2016, 46% of employees on site live within 20 miles and 61% within 50 miles.

#### Educating the next generation

For Road Safety Week, in partnership with the charity Brake, VolkerWessels UK funded Beep Beep! Day resource packs for 100 nurseries, playgroups and infant schools across the UK. The resource packs contained fun and interactive materials that help teach children about road safety.

We also partner with Planet First and The Eden Project to bring workshops focusing on sustainability and the environment to primary schools, with our latest event held at Puller Memorial School in Hertfordshire.

46% Of employees live within 20 miles

61%

Of employees live within 50 miles

We place great importance in promoting the construction industry through working with communities and offering sustainable environmental working practices.

VolkerWessels UK 2015 annual review Our companies in action Project overview

# Project overview

VolkerWessels UK prides itself on delivering innovative civil engineering and construction solutions as we deliver quality work across all the sectors in which we operate.

We do this through close collaboration with our clients and stakeholders throughout the life of our projects, offering a one-stop-shop where expertise and extensive industry knowledge is complemented by our own specialist plant and skills.



p20 Rail infrastructure



Marine, energy, water and environmental infrastructure



Highways and airport infrastructure



Construction for commercial, industrial and education

This 100,000m<sup>2</sup> distribution centre for end client Sainsbury's in Daventry, Northamptonshire, was completed in





VolkerWessels UK 2015 annual review Pail infrastructure 2

# VolkerFitzpatrick continues to be the market leader in train maintenance depot construction in 2015.



"Our collaborative relationship with Network Rail on the Anglia route of the CP5 Multi Functional Framework has been key to the successful and safe delivery of our work. We are delighted to continue this partnership to develop a better railway for Britain."

Richard Offord Managing Director VolkerFitzpatrick

#### IED Stoke Cifford

Stoke Gifford is one of four train maintenance depots being constructed as part of the intercity express programme. This will see new trains enter service in 2017, which will be maintained at these new facilities. Work at Stoke Gifford began in 2012 and was completed in March 2016.

*Business*VolkerFitzpatrick

Hitachi Rail Europe

Last year saw our teams continue their work on maintenance depots for three of the largest rail infrastructure programmes in the UK; the Intercity Express Programme (IEP), Thameslink and Crossrail.

#### Specialist in depot construction

Widely considered to be one of the top depot builders, VolkerFitzpatrick works with a number of high profile clients across the sector to deliver facilities for some of the UK's biggest rail infrastructure projects. These works also see close collaboration with VolkerRail and VolkerGround Engineering.

In August 2012, VolkerFitzpatrick began work on four train maintenance depots that will repair and maintain the fleet of new Hitachi Rail Europe trains that will operate on the Great Western Mainline from 2017. The depots are located at Doncaster Carr in Doncaster, Stoke Gifford in Bristol, North Pole in London and Swansea Maliphant in Swansea.

VolkerFitzpatrick have been working closely with Siemens to construct two train care facilities at Three Bridges in Crawley, West Sussex and Hornsey in London. These two new depots will house the new Siemens trains coming into service on the Thameslink line in 2017.

Split into two and constructed on both sides of the London to Brighton line, Three Bridges was completed and handed over to the client in October 2015 in preparation for testing the new trains later this year.

The team at Hornsey are working within a confined area alongside live rail operations, in a very challenging environment and will complete the project in late 2016.

The state of the art facilities constructed at each location include multi-vehicle storage and maintenance buildings, carriage wash facilities and wheel lathes.





Our companies provide all on-track, signalling and electrification works as well as specialist piling skills and equipment on the projects. This provides clients access to a truly integrated multi-disciplinary project team.

Together with design partner Atkins and Network Rail, VolkerFitzpatrick formed the Anglia Route Collaboration (ARC) to carry out works on the Control Period 5 (CP5) Network Rail framework. Under the multi-year contract, awarded in 2013, VolkerFitzpatrick will carry out a range of earthwork and structure renewals along with major network infrastructure enhancements up to 2019 within a formal BS11000 accredited collaboration.

#### Improving rail infrastructure

The latest and most significant works are currently being undertaken in Cambridge and Waltham Forest as the team constructs the new Cambridge North Station and reinstates Lea Bridge Station. This facility was last open to passengers over 30 years ago. Work at Lea Bridge involves moving signals, the extension and refurbishment of platforms as well as the demolition and replacement of the existing overbridge. The project began in May 2015 and will be completed in May 2016.

VolkerRail is also delivering several key Network Rail frameworks for CP5. These frameworks involve railway engineering systems principally for Network Rail IP Central Panel and Programme. These works cover railway engineering and electrical and power projects.



# Manchester Metrolink

Since 2007, the MPT joint venture has been working with Transport for Greater Manchester to develop the UK's largest light rail scheme. VolkerRail have been undertaking all track based work on the project, which include the installation of 96 km of new track.

## **Business**

VolkerRail

#### Client

Transport for Greater Manchester

"We are proud to be involved in many significant rail infrastructure improvement projects, building on our successes and working collaboratively with our partners to deliver quality programmes to improve the network."

Steve Cocliff Managing Director VolkerRail



#### Manchester Metrolink

As a leader in the light rail sector, VolkerRail continues to consolidate their position as they work under the joint venture MPT with Laing O'Rourke and Thales, to complete further extensions to the Manchester Metrolink tram network.

Following the successful delivery of the 14.5km Manchester Airport Line extension in 2014, launched more than 12 months ahead of schedule, MPT has now installed over 96 km of new track and 57 new stops across the whole network.

Work began on the latest part of the extension; the Metrolink Second City Crossing in summer 2014, with the first phase of the project unveiled in December 2015. The 0.6 km section of the line will run through the centre of the city between Victoria Station and Exchange Square.

Once fully operational, the crossing will increase capacity and operate more frequent and reliable services for travellers around the city.

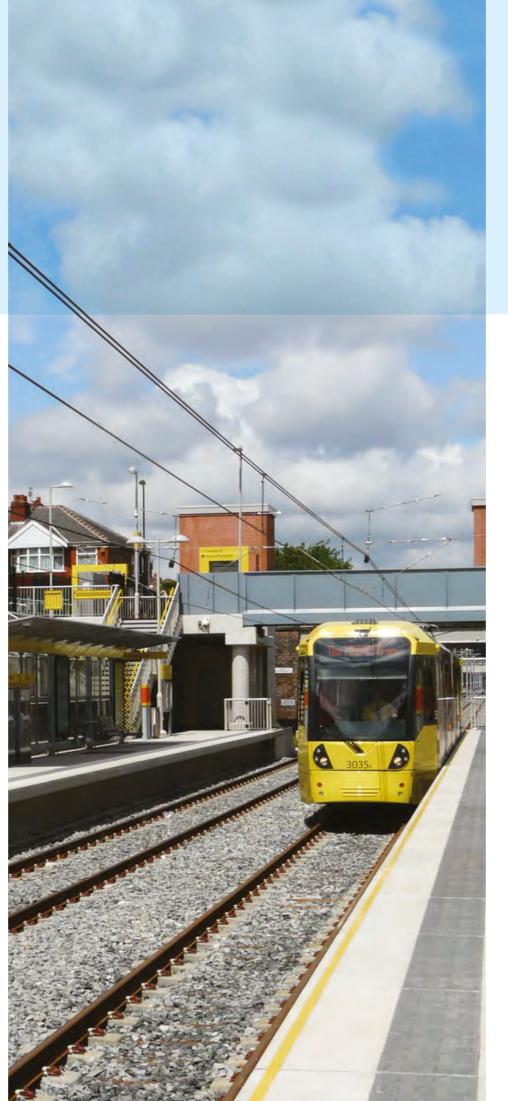
Improvements made to Manchester Metrolink by MPT



96.6 km New tracks laid



5 / New stops across the network





#### Staffordshire Area Improvement Programme

The East-West Rail Scheme will

see services improved across

Alongside their work on the East Coast Mainline, VolkerRail is part of the Staffordshire Alliance, a partnership unique to the UK rail industry, which is delivering the Staffordshire Area Improvement Programme on the West Coast Mainline. Works are continuing on this project to remove a major bottleneck through the Stafford area. Phase two to undertake the signalling works finished in August 2015.

During a 48 hour possession of the line over the August 2015 Bank Holiday, the team worked around the clock to complete all the signalling works. December saw phase three begin to construct a new rail over rail fly over was carried out at Norton Bridge. The work involved the construction of 11 new bridges, 9.7 km of new track and a new 1.2 km section of road, as well as four river diversions and movement of over one million tonnes of earth. The team was able to set a track-laying record during a 48-hour period, hitting a peak production output of 375m/hr to achieve 3 km of track laid in just 8 hours.

#### Trans Pennine Electrification

Working as the REAL (Rail Electrification)
Alliance, VolkerRail began work on the major Trans Pennine Electrification project in April 2015. The electrification of the line relies on the raising of over 100 bridges and structures to allow overhead line equipment (OLE) to pass underneath. The first of these were completed between Colton Junction and Church Fenton near York during a 54 hour closure of the railway line over Easter, 2015.

The works form part of the larger electrification project, a four year scheme to construct feeder stations, and install OLE, powerlines and signalling to 246 km of the East Coast Mainline between Wood Green in London and Doncaster.

#### East – West Rail Scheme

VolkerRail has been appointed as one of the partners on the East–West Rail Scheme, a new rail link connecting Oxford with Cambridge and Ipswich. The team will construct the line enabling trains to operate between Oxford, Milton Keynes and Bedford and connect Milton Keynes with London Marylebone via Aylesbury. Work is currently taking place on the outline design and construction programme for the scheme which will then be finalised with the Department for Transport before work commences in Autumn 2016.

# Specialist plant operations

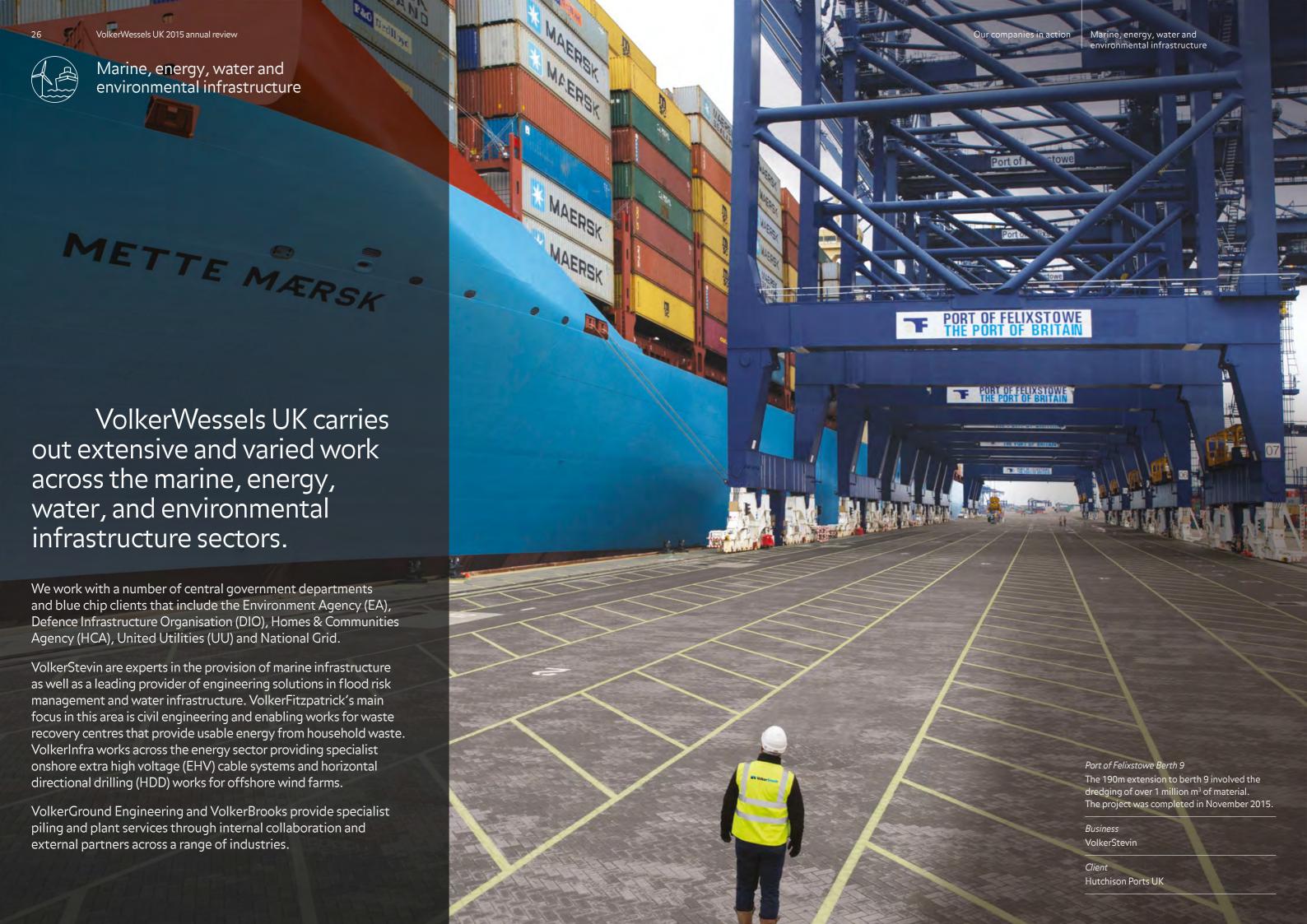
VolkerRail is also a leading provider of specialist rail plant and welding equipment, including an award winning tamper fleet. They operate the largest fleet of Kirow cranes in the UK. Overhead line services and equipment are also provided together with specialist welding service to both internal and external customers.

# Outlook

As passenger numbers continue to grow, investment in the rail infrastructure will need to keep pace. The publication of the Hendy report into the delivery of the CP5 programme has reinforced Network Rail's commitment to deliver this investment.

VolkerFitzpatrick and VolkerRail's commitment to not only meet but to exceed our clients expectations for increased efficiency, places us in an ideal position to be actively involved in the ongoing investment in train care facilities and rolling stock replacement.

The outlook for our rail businesses is very positive and we have secured some important frameworks and contracts for 2016. We have also significantly increased expenditure on rail specific training and development over the last couple of years. We see this investment pay dividends as we enter into the delivery phase of our current projects.



As part of the AMP6 framework with United Utilities, we deliver engineering and construction

VolkerStevin started work on a key piece of infrastructure in Portsmouth for the DIO; began a five year AMP6 water and waste water framework with UU; drove the first piles into the ground for marine enabling works associated with the new Thames Tideway Tunnel in London; as well as completing the extension to Berth 9 at the Port of Felixstowe.

#### Port of Felixstowe Berth 9 Extension The Port of Felixstowe contracted

VolkerStevin and Boskalis Westminster to

#### Portsmouth OEC Berth

Works to the jetty at the naval base in Portsmouth began in spring 2015 and will be completed in late 2016. This is after the demolition and refurbishment of the existing berth and installation of on-shore infrastructure has taken place.

This extensive and complex project requires close and consistent collaboration with key stakeholders that include government officials and Royal Navy personnel. A number of VolkerWessels UK businesses including

#### Anchorsholme Park

Work under the AMP6 framework involved an innovative 36 hour continuous concrete pour to create a 30m wide and 30m deep storm water storage tank in Anchorsholme Park in Blackpool.

# Business

VolkerStevin

## Client

#### AMP6 Water Infrastructure

As part of the AMP6 framework with UU, VolkerStevin is working with CH2M under the C2V+ joint venture to deliver engineering and construction services on various projects across north west England.

We are delivering the first water treatment works facility in the UK to use the chlorine dioxide chemical process, a process that has been successfully used throughout North America and Europe.

#### National Flood Risk Management

A joint venture partnership of VolkerStevin, Boskalis Westminster and Atkins, operating through VBA Joint Venture Limited, is responsible for delivering a range of projects under the Environment Agency's Water and Environment Management (WEM) Framework

Major works on this framework include the improvement and repair of flood and sea defences across the country.

#### **Ipswich Tidal Barrier**

VBA recently began work on a major tidal barrier scheme along the River Orwell in Ipswich. Here a 30 m wide tidal barrier gate is being designed and built to prevent surge tides and allow control of fluvial flow.

Outside of its work on the WEM framework, VBA completed emergency repair works, on behalf of the Environment Agency, at 10 sites around Cumbria and Lancashire following the floods in the north of England in late 2015.

#### **Thames Tideway Tunnel**

VolkerStevin has also started work at a number of sites along the River Thames in advance of the Thames Tideway Tunnel project. Teams are currently carrying out works in Blackfriars to construct a new pier, lift and stairs to replace the Blackfriars Millennium Pier. On the Victoria embankment, they are installing new moorings with steps and gangways for the Tattershall Castle restaurant boat. This will allow it to be moved upstream to free up a site required for the Tideway project.

"Throughout the 2015/2016 winter, teams from VolkerStevin helped alleviate the flooding problems experienced in the north of England. In January, our staff were in Croston, Lancashire, helping to repair a breach in the River Douglas and pump out over one million m<sup>3</sup> of water away from residents homes."

Rob Coupe Managing Director VolkerStevin





# Burbo Bank Extension offshore wind farm

VolkerInfra were appointed by DONG Energy to install onshore underground cables and associated fibre optic cables for Burbo Bank Extension offshore wind farm in Liverpool Bay. The underground onshore cables will run for approximately 10 km to a new onshore substation which will be linked to the National Grid Bodelwyddan substation.

*Business*VolkerInfra

Client DONG Energy



Milton Keynes Residual
Waste Treatment
Plant Waste is turned into reusable
material to generate electricity
for the local area



## Waste and thermal treatment

VolkerFitzpatrick continued work on the Milton Keynes Residual Waste Treatment Plant throughout 2015. The new facility will be fully operational in late 2016. It will treat over 125,000 tonnes of waste each year and create new reusable material, like compost and gas. This will then be used to generate electricity for the local area.

Work also began on the enabling and infrastructure works for a new advanced thermal treatment plant in Dagenham. This project involves the excavation and stabilisation of the existing site as well as working with VolkerGround Engineering to carry out piling and the construction of reinforced concrete foundations and perimeter retaining walls.

## Land remediation

The VSD Avenue joint venture which comprises of VolkerStevin, Sita Remediation and DEC will complete work in 2016 to regenerate the Avenue Coking Works in Chesterfield. This 98 hectare site was named one of the most heavily contaminated sites in Europe and has been one of the most complex civil engineering and remediation schemes delivered in the UK.



"We are proud of the reputation we have developed to deliver complex EHV cabling and drilling solutions to an exacting standard with minimum disruption to the many stakeholders involved."

Jonathon Humphries Managing Director VolkerInfra

## Drilling and Power Transmission

VolkerInfra recorded a very successful year, with a number of EHV (extra high voltage) and HDD (horizontal directional drilling) contract wins in 2015. This included three contracts with Siemens, to provide the EHV cable systems required at four separate substation sites, including Dudgeon Offshore Wind Farm. Over seven kilometres of HDD pipes will also be installed across four locations for onshore works for the Rampion Offshore Wind Farm at Worthing, West Sussex for Eon. This includes major drilling under two A roads, a railway line and a river. EHV works are also nearing completion on Burbo Bank Wind Farm in north Wales, which included the installation of a 10 mile long 220 kV connection onshore for Dong Energy.

## Outlook

Overall we see a positive outlook for 2016 and beyond as we continue to deliver on a number of multi-year framework contracts. We will also selectively target major projects by maintaining strong relationships with our clients and gaining greater pipeline visibility for our services.

Our specialist skills and resources continue to be in demand in the marine and energy sectors and with the UK Government focus on flood defences and renewable energy, we are confident in the growth of our key markets and of our activities in this sector.

Our specialist skills and resources continue to be in demand in the marine and energy sectors.



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## Improving highways

In June, VolkerFitzpatrick completed the major reconfiguration of the M1 Junction 10a. This project, commissioned by Luton Borough Council was designed to alleviate significant congestion around the area and Luton Airport. The scheme involved the construction of two new roundabouts as well as an under-bridge beneath the new carriageway. The scheme has, according to post-construction traffic surveys, resulted in significant reduction in travel times around the area. The surfacing and street lighting on this project were carried out by VolkerHighways.

#### Upgrading street lighting

The VolkerHighways street lighting division went from strength to strength in 2015. The team won three contracts that will see nearly 90,000 traditional street lights replaced and upgraded to energy efficient LEDs. This will see our teams work in Bournemouth, Poole, Reading, Slough, Wokingham and West Berkshire over the coming years. The contracts will also involve the installation of central management systems. This gives the councils the ability to monitor, dim or turn off individual lights if required.

"We are delighted to be working with our local authority partners to deliver highways and lighting improvement schemes that will benefit the communities in which we work."

Alistair Thompson, Managing Director, VolkerHighways



#### Improving local roads

The VolkerHighways term maintenance contracts in the London Boroughs of Hackney and Camden as well as the local authority areas of Medway, Luton and West Berkshire, continue to perform well. Our CVU joint venture is also continuing to deliver responsive and planned maintenance works in the centre of London as part of the Central London Highways Alliance Contract (LoHAC) for Transport of London.

CVU continues to provide excellent services across 270 km of road network in Central London and is also involved in a number of the cycle superhighway projects across the capital. CS5, the first cycle superhighway (CS) route in Central London that links Pimlico and Oval, was completed in November and opened by the Mayor of London, Boris Johnson. CVU has also been working in partnership with VolkerHighways to deliver the 11 km long CS1 route that links White Hart Lane, Tottenham to London Liverpool Street Station.

Improving London's road and cycle network





11km Cycle Superhighway





We carry out works on civilian airports across the UK



#### Airport infrastructure

The airport infrastructure sector is a successful and growing market for VolkerFitzpatrick. We are currently undertaking works, ranging from taxiway rehabilitation to the construction and maintenance of new buildings on seven civilian and military aviation schemes across the UK.

Following our successful work at Birmingham and Glasgow Airports, our teams are now working to deliver new stands at Aberdeen Airport as well as stand reconfiguration and taxiway repairs at London Gatwick Airport.

Our multi-year framework with US Air Force (USAF) continues to deliver quality results, with works currently taking place at a number of military sites across the country. Projects on this framework involve the repair and construction of roads, paving, runways and taxiways.

VolkerFitzpatrick's experience in the paving industry dates back more than 70 years when we began constructing wartime airfields across the UK. Throughout more recent times, we have continued our investment in this area and own specialist plant that is used on a number of our own projects for clients such as the USAF and civilian airports.

In the past 10 years, we have laid more than two million m<sup>2</sup> of airfield pavements across the UK and Ireland.

"Completing 400 night possessions of one of the busiest roads in Leeds created a number of logistical challenges which our teams took on to complete and ensure minimal disruption to road users."

Mike Weaver Managing Director Volkerlaser



#### Bridge and tunnel repair

VolkerLaser continues to build on its reputation as a specialist in waterproofing and strengthening of bridges and tunnels. Completed in July 2015, the strengthening and refurbishment of Reading Bridge required the innovative use of carbon fibre to help future proof the historic structure whilst remaining true to its original design.

Throughout 2015, VolkerLaser was working on the structural upgrade and repair of the Woodhouse Tunnel in Leeds. The tunnel is part of the busy A58, which lies beneath the city centre and Leeds General Infirmary. It handles more than 75,000 vehicles a day. Working solely at night, the team took possession of the tunnel to carry out the works, completing 400 shifts over the course of two years, reopening the tunnel to traffic each morning.

#### Outlook

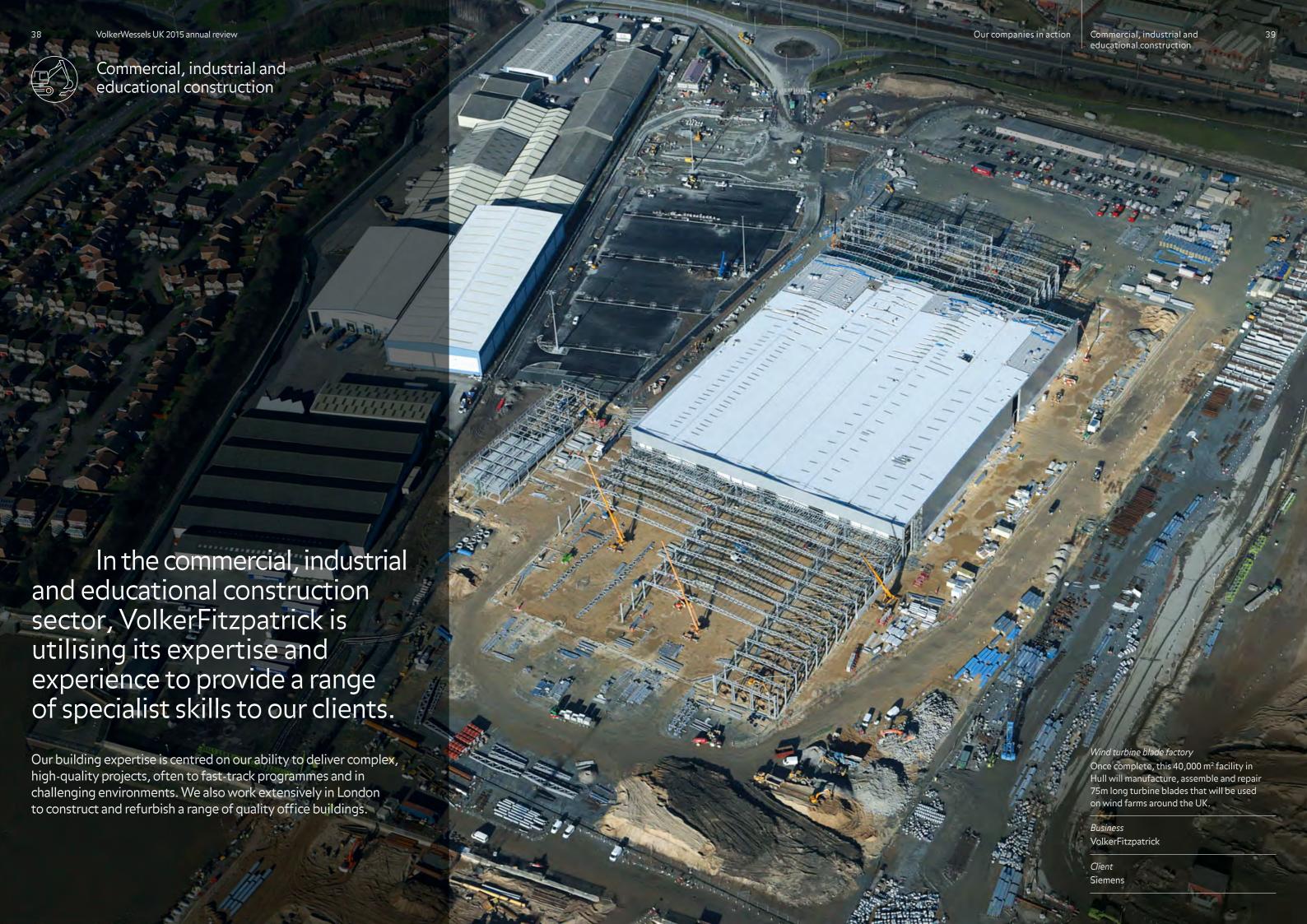
Over the next year, the focus for VolkerHighways is to continue developing existing relationships and identify new prospects within their HTMC portfolio. 2016 will also see further opportunities explored for expansion of the lighting, surfacing and traffic management divisions through internal collaboration and new external contracts.

Within London, CVU will be targeting the delivery of third party contracts within their core service delivery area.

VolkerFitzpatrick has been appointed as one of the contractors under the Highways England Collaborative Delivery Framework (CDF).

The aviation sector continues to be a growing market and VolkerFitzpatrick will use its paving and airport infrastructure experience to provide a highly effective service to existing and new civilian and military airport clients.

VolkerLaser will continue to focus on the delivery of specialist activities across the infrastructure sector including repair, cathodic protection and strengthening works, such as waterproofing and full bridge refurbishment works to the new Forth Road Crossing for Fife Council.





DP World London Gateway Berth 3
The last of four projects at London
Gateway, the construction of berth
3 required the installation of the
infrastructure required to load and
unload ships including container
stacking areas and gantry cranes.

*Business*VolkerFitzpatrick

DP World

## **DIRFT II**

VolkerFitzpatrick's 100,000 m² multimodal distribution centre at the Daventry International Rail Freight Terminal was completed in February 2015.

The project comprised two stages. The first involved the installation of site wide infrastructure that connected the site to the existing road and rail networks and utilities. The second required the cut and fill of over one million m³ of material, allowing our teams to create several earth embankments to raise site levels by 14m. This reduced the impact of the distribution centre on the environment and future residents of a planned residential development. Once complete, the earthworks allowed for construction of the main facility and car park to begin.

Whilst completing the construction work, VolkerFitzpatrick was also awarded the contract to install the internal fixtures and specialist racking required by the end client. This additional work was integrated into the overall project plan with no delay to the original completion date.

## DP World Gateway

The latest of four multi-million pound contracts awarded to VolkerFitzpatrick at DP World London Gateway was completed in February 2016. The project to construct the third berth at the port, loading and unloading facilities and storage areas follows three previous contracts at the site. These works saw the construction of port access roads and a bridge over an existing railway line. Infrastructure for the port's logistics park was also undertaken. These four successive projects are a shining example of positive client relations and collaboration that has seen us onsite since December 2012.

Creating the next generation of education facilities of LAMDA in London



10 Teaching studios



Performance theatres



Recording studio



Study centre

# The London Academy of Music and Dramatic Arts

LAMDA commissioned VolkerFitzpatrick to create a world class education and performance facility to help inspire the next generation of musicians, actors and directors. The complex, once complete in Autumn 2016, will feature 10 teaching studios, a recording suite and study centre as well as two performance theatres.

Extensive groundworks, including the demolition of the existing building and installation of 211 steel piles were carried out before the first section; a four storey steel frame building was erected. Following this, a further three story reinforced concrete structure has been built.

The project is not without its challenges; the site is bordered by the busy A4 road and Barons Court Underground Station, making site logistics and collaboration with stakeholders vital.

# Siemens wind turbine blade factory

The construction of a 40,000 m² wind turbine blade factory in Hull began in 2015 with VolkerFitzpatrick undertaking the works on behalf of Siemens. The new facility will be the company's UK base for the manufacture of 75m long turbine blades as well as the assembly, maintenance, storage and distribution of turbine components.

Due for completion in autumn 2016, the building will also house offices and staff facilities and will produce its first blades by the end of 2016. These are expected to be used at the Dudgeon Wind Farm where VolkerInfra is currently providing works.

2015 has been a year of great successes that have been underpinned by the awarding of a number of prestigious contracts.

Working within the confines of Westminster requires extensive collaboration between our site teams, local businesses and the council. A number of our most recent projects have involved careful planning to allow construction traffic into the site without impacting the local area.

#### Royal Mail Uplift Programme

As part of the Royal Mail Group Uplift
Programme, we are delivering refurbishments
to existing buildings and fit outs to newly
acquired premises for 18 sites across the
south of England. The modernisation project
is designed to help improve the efficiency and
sustainability of the buildings and will run for
five years, ending in 2019.

VolkerFitzpatrick have continued their relationship with the Royal Mail through the contract to design and build the Nine Elms delivery office in London.

This project involves demolition of existing buildings before work on the new 17,000 m<sup>2</sup> delivery office and 20,000 m<sup>2</sup> multi-storey car park can begin.

#### BIM

Teams across VolkerWessels UK have also been preparing for the UK Government mandate on the use of Building Information Modeling (BIM) that comes into force in April 2016. VolkerFitzpatrick achieved full readiness of BIM Level 2 in 2015, making them one of the first contractors to achieve this.



#### Welbeck Street

This 3,353 m² state-of-the-art office building in the heart of Westminster retains its Edwardian front façade whilst the internal structure was completely demolished and reconstructed. The project involved extensive liaison with the community and local stakeholders.

#### Business

VolkerFitzpatrick

#### Client

The Howard De Walden Estate

#### Central London construction

Over the last two years, VolkerFitzpatrick's work within Central London has grown substantially. Our projects cover a wide range of landmark and prestigious office and leisure facilities that provide quality, category A office accommodation.

Throughout 2015, we have been working closely with our client, The Howard de Walden Estate, to construct three office buildings to create over 51,000 m² of offices. These buildings, in some of London's most desirable areas retain many of the original features. The facilities in Welbeck Street in Marylebone were completed in 2015, with work for Wigmore Street and Queen Anne Street in the heart of Westminster continuing throughout the next year. Alongside the construction of these buildings, we have also undertaken the establishment of basements and complete internal refits.

Delivering quality office accommodation in the heart of London for The Howard de Walden Estate



New office buildings



#### Outlook

2015 has been a year of great success within construction and this has been underpinned by the awarding of a number of prestigious contracts. To build on this momentum, VolkerFitzpatrick will continue to increase their work within London and develop their reputation as a provider of quality office solutions as well as complete and deliver further high profile projects.

Having recently been named on the Defence Infrastructure Organisation framework to help deliver the next generation of military facilities, VolkerFitzpatrick will be involved in a number of competitive tenders for projects across the south east and south west of England.

# Locations and offices

For more information and details of our offices go to volkerwessels.co.uk

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# VolkerLaser

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VolkerRail

# Credits

Designed and produced by OPX, London.

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VolkerWessels UK brings together six separate operating businesses in collaboration across multi-disciplinary projects, whilst also providing commercial and back office support. All of our UK businesses; VolkerFitzpatrick, VolkerRail, VolkerStevin, VolkerHighways, VolkerLaser and VolkerInfra have a long and successful heritage, each founded by entrepreneurs. They have gone on to achieve a long history of success through hard work, innovation and excellence.

volkerwessels.co.uk

