

# windhoist

## COMPANY PROFILE





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## COMPANY PROFILE

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On left: Demag AC140 and LTM 1130  
On Right: LG1750

# COMPANY PROFILE

## ORIGINS

**Dan McNally who was the original founder of Dan McNally Ltd commenced business in 1958 and contracted in the fields of land engineering and rail decommissioning projects.**

In the early 70's Dan McNally diversified into the Crane Hire Industry and in 1984 the company was incorporated as Dan McNally Ltd. In 1996 the company came under new Management which commenced the diversification into heavy Cranage and specialist lift engineering Services.

In 1999 Dan McNally Ltd received its first Wind Turbine Project which involved using a 400T Crane to erect 600KW turbines for Vestas. Following on from this, the Company decided to concentrate more of the business on Wind Projects globally, eventually leading to the purchase of a Demag TC3300 Lattice Crane which was used in the installation of 10 number Nordex N80 Wind Turbines in Kings Mountain, Sligo, Ireland.



Top photo: Demag CC2800NT, erecting GE turbines, Akfenir, Morocco

Bottom photo: LTM1750, UK

## WINDHOIST

**The Directors recognised the need for a supplier to the Wind Industry that provided an integrated package incorporating Cranage and competent erecting personnel. As a result, in 2005, it was decided to create a new company known as Windhoist Ltd, which offered Clients a fully-integrated site installation package.**

Following on from this and as a direct result of Windhoist's ability to perform in Europe, the company was invited to tender for projects in Australia, allowing the company to diversify and set up business in Australia under the company name Windhoist Australia Pty Ltd.

Since the founding of Windhoist, the Company has become leading Wind Turbine Erection Specialists offering heavy cranage and mechanical/electrical services to most of the main manufacturers in the Wind Energy Market.

Drawing on its experience as a global leader in wind turbine erection and heavy lift engineering, Windhoist will continue as a front runner in the industry with the opening of our new centre of educational excellence, where a combined learning environment of classroom and practical learning will be delivered by industry leading instructors.

This important expansion allows Windhoist to deliver wind industry specific safety training programmes both internally and externally, creating a great opportunity for people seeking entry level or refresher training. Windhoist will also offer bespoke training courses for any crane and wind application and construction and these courses can be designed to client specific requirements.



## ERECTION TEAMS (12)

The erection or installation team is the fundamental service unit. Each team is composed typically of the following:

### Personnel

- Competent Team leader/Supervisor
- Competent Rigging, mechanical and electrical team.

### Plant/Equipment

- Cranage, Telescopic Handler, MEWP, Other Plant.
- Generators
- Bog mats and tower supports.
- Welfare Facilities
- Tool container including torque appliances
- Fuel bowser and associated spill kits
- First Aid Facilities

## SUMMARY OF HEAVY CRANES OFFERED

- 1 x Demag CC2800NT crawler crane.
- 2 x Liebherr LG1750 truck mounted lattice cranes.
- 1 x Liebherr LTM11200 telescopic crane.
- 2 x Demag TC2800 truck mounted lattice cranes.
- 3 x Liebherr LTM1750 telescopic cranes.
- 1 x 500T telescopic cranes.
- 1 x 300T telescopic crane.
- 1 x 250T telescopic crane.
- 3 x 200T telescopic cranes.
- 2 x 140T telescopic cranes.
- 3 x 130T telescopic cranes.
- Range of small cranes from 25T to 120T.
- 1 x 100T telescopic crawler crane (Liebherr LTR1100).
- 1 x 30T telescopic crawler crane (Favco Favelle).
- 1 x Tracked Knuckleboom CWE 525
- Additional 30 cranes available ex Forsyth of Denny subsidiary

## KEY PERSONNEL

Chief Executive Officer  
Operations Director  
Commercial Director  
HR Director  
Offshore Director  
HSEQ Director  
APAC Director  
Head of Projects  
Head of Bids and Tenders

Euan Lockhart  
Kevin Daly  
Craig Reid  
Coleen Forde  
Willie Dawson  
Malcom Hamilton  
Jackson Hill  
Shane McGorry  
Ryan Burke



Top photo: Erecting Siemens turbines, Saint Pierre de Maille III, France

Bottom photo: Crane LTM 1750

## SITE FACILITIES

### (a) Irvine, Scotland, UK

- 6 Hectare site
- 1 Hectare concreted yard
- Office Facility (HR/Quality/Accounts/Marketing)
- Workshop which facilitates plant service and repairs
- Storage of Wind Turbine Components possible
- World Class Safety Training Centre

Close to Prestwick Airport. Close to Troon / Cairnryan harbours.  
Just off UK A78/M77 highway Network

### (b) Forsyth of Denny, Stirlingshire Depot, Easterton, Stirling Road, Denny, FK6 6RF



- 8 Acre Site
- Office
- Workshop and Yards
- Storage Area

Close to M80/M9 Motorways. Close to Glasgow/Edinburgh.

### (c) Monaghan, Ireland

- 1 Hectare site off N2 national route
- Office Facility: Main project management centre for all companies.
- Workshop which facilitates plant service & repairs

### (d) Dublin, Ireland

- 1.5 Hectare site close to Dublin orbital route M50
- Office facility
- Workshop which facilitates plant service and repairs
- Storage of Wind Turbine Components possible

Close to Dublin Airport. Dublin/Dun Laoghaire Harbours. M50/M1 Network

### (e) Portland, Victoria, Australia

Fully owned facility comprising:

- 4000m<sup>2</sup> site
- Office
- Workshop
- Storage area

This is an ideal facility for Windhoist as it is located in Western Victoria and is close to the border with South Australia intended to service the Asia Pacific region.



### (f) H hfr schen, Germany

Windhoist have opened a 4000m2 logistics depot in Germany to support our operations in Germany/France and throughout mainland Europe. Located in H hfr schen near the border with France this new facility is perfectly positioned to serve our operations in Central Europe.

### (g) Port Elizabeth, South Africa

Windhoist ZA PTY Ltd. has been established in South Africa to support our operations throughout the region. With a representation based in Port Elizabeth, Windhoist ZA Pty Ltd is perfectly placed to take advantage of opportunities in the developing wind energy sector in South Africa.

### (h) Casablanca, Morocco

Office and local representative in Casablanca to serve North Africa market.

## SERVICE FEATURES

- WINDHOIST has over 18 years wind industry experience. Over 6150 turbines erected with an installed capacity of over 11GW. (Available on reference).
- Global coverage with completed works in:

Australia	Italy
Belgium	Morocco
Brazil	Mauritania
Denmark	Netherlands
Falkland Islands	Norway
Finland	Poland
France	South Africa
Germany	Spain
Greece	Turkey
Ireland	UK
- High emphasis on Health & Safety
- High emphasis on environmental protection and sustainability
- High emphasis on quality
- Extensive resources and capacity
- Flexible working conditions to exploit wind abatements
- State of the art technology using long boom cranes to reduce civil interface and enhance the erection process.



Top photo: LTR 1100



## SERVICES AVAILABLE

- Heavy lifting
- Installation of wind turbines
- Service operations
- Training Centre
- Wind turbine decommissioning
- Major Component Changes
- Specialist and custom solutions for difficult locations or recovery operations

Our multi disciplinary teams of technicians are highly skilled and have vast experience working for all the major wind turbine manufacturers. With our flexible approach, we can assist our customers to achieve their targets and to ensure maximum return on their investment. We continually strive to improve our offering through investment in the latest plant, tools, personal protective equipment and training.

Windhoist have vast experience in O&M Programmes including replacing gearboxes, generators and blades. We have also undertaken projects which involve the demounting of rotors and removal and transportation of blades to suitable warehouse facilities for repair.

### Wind Turbine Decommissioning

- Global specialist in wind turbine decommissioning works especially subsequent to catastrophic fire damage
- Specialist methods and equipment

### Major Component Changes

- Cranes/Tools/Man Power
- Blade removal
- Yaw rings
- Gear Box / Generator

## TRAINING CENTRE

**Windhoist Ltd. opened its very own GWO Training Centre, late 2015. Our world class training centre is located in Irvine, Scotland (near Glasgow). Windhoist are proud to offer RenewableUK and Global Wind Organization approved Basic Safety Training courses such as Working at Height & Rescue, First Aid, Fire Awareness, & Manual Handling.**

Drawing on our experience as a global leader in wind turbine erection and heavy lift engineering, we will continue as a frontrunner in the industry with the opening of our new centre of educational excellence where a combined learning environment of classroom and practical learning will be delivered by industry leading instructors.

This important expansion allows Windhoist to deliver wind industry specific safety training programmes both internally and externally, creating a great opportunity for people seeking entry level or refresher training. Windhoist will also offer bespoke training courses for any crane, wind application, construction, and these courses can be designed to your specific requirements.

With a bright future on the horizon and plans already under way for the development of an exciting range of additional courses such as Basic Technician Training & Crane Safety training, we look forward to sharing our training experience with you.



*GWO Training being carried out at Windhoist Training Centre, Scotland*

## WINDHOIST PROJECTS FOR ENERCON

Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Auchmore	GB	2013	E33	50m	1	0.33
Ballincullig Hill, Co. Kerry	IE	2010	E48	56m	11	8.80
Balloo	GB	2008	E48	56m	1	0.80
Ballybane	IE	2008	E70	63m	13	29.90
Ballybay	IE	2017	E82	69m	6	12.00
Ballywater, Kilmuckridge, Co. Wexford	IE	2005	E70	65m	21	48.30
Balnmoon Farm, Moray	GB	2009	E48	50m	1	0.80
Bartelsdorf, Germany	DE	2009	E82	108m	8	16.00
Bearna Gaoithe, Shillelagh, Co. Wicklow	IE	2009	E44	56m	2	1.80
Beinn Nan Oighreann	IE	2009	E70	63m	2	4.60
Benbecula	GB	2009	E44	55m	1	0.90
Ben Aketil, Highland	GB	2007	E70	64m	10	23.00
Brett Martin, Newtownabbey	GB	2011	E70	63m	1	2.30
Brotherton	GB	2017	E82	64m	2	4.00
Burton Wold WF, Northhamptonshire	GB	2006	E70	63m	10	20.00
Castledockrell	IE	2010	E70	84m	11	25.30
Clearwell Farm	GB	2013	E33	37m	1	0.33
Cloonlusk	IE	2017	E72	77m	2	4.00
Cornacahan	IE	2007	E44	56m	3	2.70
Country Crest, Balbriggan	IE	2008	E48	56m	1	0.80
Crockahenny Buncrana	IE	1998	E40	40m	10	5.00
Cronolea, Shillelagh, Co. Wicklow	IE	2009	E70	63m	1	2.30
Dunmore, Collon, Co. Louth	IE	2009	E70	56m	1	1.60
Falkland Islands	GB	2007	E33	40m	3	0.99
Farndon	GB	2013	E33	50m	1	0.33
Gamlingay	GB	2013	E33	37m	1	0.33
Glackmore, Buncrana	IE	2009	E70	64m	1	2.30
Hammars Hill, Orkney	GB	2010	E44	45m	5	4.50
Hatston, Orkney	GB	2010	E44	45m	1	0.90
Heidenheim, Germany	DE	2008	E70	98m	1	2.30
Inishative	IE	2017	E70	83m	1	2.00
Killybegs	IE	2008	E70	64m	5	11.50
Knocknain	GB	2012	E33	37m	1	0.33
Knocknalour	IE	2013	E70	75m	4	2.30
Lacka Cross, Ballydesmond, Co. Cork	IE	2009	E82	83m	2	4.00
Liniclate Wind Farm, Western Isles	GB	2008	E44	55m	1	0.90
Lurganboy	IE	2008	E44	55m	6	5.40
Marsh Hill	GB	2015	E82	77m	1	2.00
Meenachullan, Killybegs	IE	2007	E70	64m	13	29.90

Continued



## WINDHOIST PROJECTS FOR ENERCON



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Moanmore, Co.Clare	IE	2004	E70	63m	7	16.10
Muingnaminnane	IE	2008	E44	55m	4	3.60
Muingnaminnane	IE	2008	E48	56m	14	11.20
Norton Barton	GB	2013	E33	37m	1	0.33
Pallas	IE	2008	E70	63m	12	27.60
Rahora	IE	2008	E48	56m	5	4.00
Reenascreena, Cork	IE	2009	E48	49m	5	4.00
Sand Bay, Falkland Islands	GB	2009	E33	40m	3	0.99
Sheeragh	IE	2009	E70	63m	2	4.60
Skrine, Athleague, Co. Roscommon	IE	2011	E70	63m	2	6.90
Slieve Divena	GB	2017	E92	77m	1	2.30
Sorne Extension	IE	2009	E70	63m	3	6.90
Spaldington	GB	2015	E92	78m	5	11.50
Strath of Brydock	GB	2009	E70	63m	2	4.60
Tullynamoyle	IE	2017	E70	63m	5	10.00
Ulster University, Co. Derry	GB	2008	E48	56m	1	0.80
Upper Mace	IE	2009	E48	56m	3	2.40
Vistakon	IRL	2015	E82	77m	1	2.00
Wester Cumbushinnie	GB	2012	E33	45m	1	0.33
<b>Total</b>					244	405.69

## WINDHOIST PROJECTS FOR NORDEX



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Amakhala	ZA	2015	N117	91m	56	159.60
Arnish Mhor, Western Isles	GB	2006	N60	47m	3	3.90
Bilbster	GB	2008	N60	60m	3	3.90
Birger Hill, Orkney	GB	2007	N80	60m	2	5.00
Blackstone Edge	GB	2012	N80	60m	3	7.50
Bois Luis	FR	2006	N90	80m	5	11.50
Braich Ddu Farm, Gwyneed, Wales	GB	2008	N60	60m	3	3.90
Brockaghboy	GB	2017	N90 Gamma	80m	11	27.50
Brockaghboy	GB	2017	N100 Delta	75m	8	20.00
Burn of Whilk	GB	2015	N90	75m	9	22.50
Cast	FR	2006	N80	80m	8	20.00
Castlepooke	IE	2017	N90	80m	14	33.10
Craig Wind Farm, Dumfries & Galloway	GB	2007	N80	60m	4	10.00
Crockagarron, Co. Tyrone	GB	2010	N90	80m	6	15.00
Crockagarron Ext	GB	2012	N90	80m	1	2.50
Crockdun	IE	2016	N90	65m	5	12.50
Crystal Rig, Scottish Borders	GB	2007	N80	60m	5	12.50
Curryfree, Ardmore, Co. Derry	GB	2011	N80	60m	6	15.00
Dorper	ZA	2013	N100	80m	40	100.00
Drone Hill	GB	2012	N60	46m	22	28.60
Earlsburn, Stirling	GB	2007	N80	70m	15	37.50
Eglish	GB	2016	N80	60m	6	15.00
Eye Airfield	GB	2013	N100 Gamma	80m	2	5.00
Fitou	FR	2006	N60	60m	2	2.60
Frodsham Marshes	GB	2016	N90	80m	19	38.00
Garracummer	IE	2012	N90	65m	17	39.10
Gibbet Hill	GB	2013	N90	80m	6	13.80
Glencarbry	IE	2017	N90	80m	5	12.50
Glencarbry	IE	2017	N100	75m	7	23.10
Glencarbry	IE	2017	N100	80m	1	3.30
Glenchamber	GB	2016	N100	75m	11	22.00
Glenlough, Dundrum, Co. Tipperary	IE	2011	N80	80m	9	22.50
Glenlough, Dundrum, Co. Tipperary	IE	2011	N90	80m	4	10.00
Glenough	IE	2012	N80	80m	1	2.50
Glentane 2	IE	2015	N90	80m	5	12.50
Gordonstown	GB	2012	N80	60m	5	10.00
Gortahile, Ardough, Co. Laois	IE	2010	N90	80m	8	20.00
Greenogue	IE	2005	N60	60m	4	5.20
Grouselodge, Ardagh, Co. Limerick	IE	2011	N80	80m	6	15.00
Gruig	GB	2009	N80	60m	10	25.00

Continued



## WINDHOIST PROJECTS FOR NORDEX



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
GSK 1	GB	2013	N90	65m	1	2.30
GSK 2	GB	2014	N90	65m	1	2.30
Hauteville	FR	2016	N117	100m	9	22.50
Heysham	GB	2015	N100	75m	3	7.50
High Headley Hope 2, Co. Durham	GB	2008	N60	46m	4	5.20
High Sharpley, Co. Durham	GB	2007	N60	60m	3	3.90
Hollies Windfarm, Lincolnshire	GB	2008	N60	60m	2	2.60
Hull	GB	2007	N60	46m	1	1.30
Hunters Hill	GB	2009	N80	60m	8	20.00
Jacks Lane	GB	2014	N90	80m	6	15.00
Kilaveenoge	IE	2016	N90	80m	10	25.00
Kilgarvin	IE	2009	N90	80m	13	32.50
Kinegar	GB	2017	N90	80m	2	5.00
Kingsmountain, Tubbercurry, Co. Sligo	IE	2003	N80	60m	10	25.00
Kingsmountain, Tubbercurry, Co. Sligo	IE	2003	N80	60m	10	25.00
Knockacummer	IE	2013	N90	80m	35	87.50
Knockawarriga	IE	2008	N90	75m	9	22.50
Knockduff	IE	2015	N90	80m	26	65.00
Koega	ZA	2014	N90	80m	32	73.20
Lanrivoare	FR	2006	N60	69m	2	2.60
Le Carreau	FR	2006	N80	80m	5	12.50
Little Cheyne Court	GB	2008	N80	70m	26	65.00
Loftsome Bridge	GB	2007	N60	60m	2	2.60
Meenadreen	IRL	2016	N90	70m	38	95.00
Melfi	IT	2015	N117	91m	10	24.00
Midtfjellett 2	NO	2013	N100	80m	23	57.50
Minnycap	GB	2016	N100	70m	10	25.00
Monaincha	IE	2013	N117	91m	15	37.50
Mynydd Bwlfa	GB	2015	N100	75m	6	15.00
Mynydd Bwlfa	GB	2015	N90	70m	3	7.50
Moy	GB	2015	N100	75m	22	72.60
Nash	GB	2016	N100	75m	1	2.50
Opalenica	PL	2015	N117	91m	7	16.80
Pant Y Wal	GB	2013	N90	70m	21	48.30
Pant Y Wal	GB	2016	N90	80m	8	20.00
Plestan	FR	2006	N80	80m	8	20.00
Pres de Orleans et Bretagne	FR	2006	N80	80m	13	32.50
Ratipera	FIN	2017	N131	147m	9	32.40
Red Gap	GB	2016	N100	80m	5	15.00
Severn Trent	GB	2013	N100	80m	4	10.00

Continued

## WINDHOIST PROJECTS FOR NORDEX



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Saint Bois	FR	2006	N80	80m	5	12.50
Screggagh	GB	2010	N80	60m	6	15.00
Screggagh	GB	2015	N80	60m	1	2.00
Slievecallan II	IE	2017	N90	80m	11	27.50
Slievecallan I	IE	2017	N90	80m	18	45.00
Slieve Divena	GB	2009	N80	60m	10	25.00
Windgate	GB	2012	N90	65m	6	15.00
Woodhouse	GB	2014	N100	75m	5	12.50
Woodhouse	GB	2014	N90	80m	3	7.50
Woolley Hill	GB	2014	N100	80m	4	10.00
Tedder Hill	GB	2013	N90	65m	3	6.90
Thornog	GB	2014	N90	65m	9	22.50
Tortosa	ES	2005	N60	60m	37	48.10
Trimdon Grange	GB	2008	N60	46m	4	5.20
Turncole	GB	2016	N100	80m	7	17.50
Vertiville	FR	2006	N80	80m	5	12.50
Westfield	GB	2012	N90	65m	4	9.20
Wharrels Hill, Cumbria	GB	2007	N60	46m	8	10.40
<b>Total</b>					926	2191



## WINDHOIST PROJECTS FOR VESTAS



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Abbey	GB	2008	V90	80m	2	5.00
Aikengall	GB	2008	V90	80m	16	48.00
Aksu	TR	2011	V100	80m	10	20.00
Allanche	FR	2012	V90	80m	8	24.00
Alt Dearg	IE	2012	V52	55m	12	10.20
Anarget, Co. Donegal	IE	2000	V52	49m	3	2.55
Antrim Area Hospital	GB	2005	V47		1	0.66
Ardrosson	GB	2009	V80	60m	3	6.00
Ballinveny, Tipperary	IE	2005	V52	49m	3	2.55
Balquhindachy, Aberdeenshire	GB	2007	V52	49m	1	0.85
Balquhindachy	GB	2009	V52	49m	2	1.70
Barmoor	GB	2014	V90	65m	6	12.00
Beal Hill, Ballybunion, Co. Kerry	IE	2000	V52	55m	3	2.55
Beal Hill 2, Ballybunion, Co. Kerry	IE	2003	V52	55m	4	3.40
Beam Hill	IE	2005	V52	55m	11	9.35
Beam Hill	IE	2005	V66	60m	7	12.60
Bearna, Co. Wicklow	IE	2005	V52	50m	3	2.55
Beenageeha, Co. Kerry	IE	2000	V52	49m	9	7.60
Beinn Tharsuinn	GB	2005	V66	47m	17	30.60
Black Banks	IE	2001	V52	49m	9	7.60
Boulfruich, Highland	GB	2005	V52	49m	15	13.00
Boulfruich, Highland	GB	2005	V66	60m	1	1.80
Burtonport, Co. Donegal	IE	2003	V52	55m	1	0.85
Cairnmore, Aberdeenshire	GB	2010	V52	55m	3	2.55
Camster	GB	2013	V80 Mk7a	78m	25	50.00
Carnsore Point, Co. Wexford	IE	2002	V52	49m	15	12.75
Chery	FR	2012	V100	95m	7	12.60
Cronlaght 11, Gweedore, Co. Donegal	IE	2000	V52	49m	4	3.40
Cuillalea	IE	2000	V52	49m	12	10.00
Cuillalea, Kiltimagh, Co. Mayo	IE	2010	V52	55m	2	1.70
Culliagh, Co. Donegal	IE	2000	V52	49m	17	14.45
Cumbria	GB	2000	V52	49m	12	10.20
Currabwee, Dunmanway, Co. Cork	IE	1999	V47	47m	7	4.62
Curraghgraique	IE	2011	V52	49m	3	2.55
Derrybrien	IE	2005	V52	49m	70	59.50
Dromdeveen, Ballagh, Co. Limerick	IE	2011	V80	78m	14	28.00
Drumlough Hill	IE	2003	V52	55m	8	6.75
Drumlough Hill Repowering, Donegal	IE		Vestas	48m		8.00
Dundalk	IE	2005	V52	60m	1	0.85
Dunlaw	GB	2009	V52	49m	35	29.75
Dunmanway	IE	2000	V52			7.60

Continued



## WINDHOIST PROJECTS FOR VESTAS



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Dunmore, Collon, Co. Louth	IE	2005	V52	49m	2	1.70
Dunneill, Dromore West, Co. Sligo	IE	2010	V52	49m	13	11.05
Fallago Rig	GB	2012	V90	80m	48	144.00
Fullabrook	GB	2011	V90	65m	22	66.00
Garimetz (Atrebatie)	FR	2013	V90	105m	4	12.00
Garvagh Glebe	IE	2009	V80	67m	13	26.00
Garvagh Glebe (South)	IE	2010	V80	67m	4	8.00
Glenkerie	GB	2011	V90	80m	11	22.00
Gneeves	IE	2005	V52	49m	3	2.55
Gneeves	IE	2005	V52	65m	11	9.35
Goonhilly	GB	2010	V80	67m	4	8.00
Green Rig	GB	2012	V80	60m	18	36.00
Hallburn	GB	2017	V100	75m	6	13.2
Haverigg 3	GB	2000	V52	49m	4	3.40
High Haswell	GB	2010	V80	60m	4	8.00
Hill of Easrertown, Aberdeenshire	GB	2007	V52		2	1.70
Hybrilla	IE	2006	V52	49m	3	2.55
Hybrilla	IE	2006	V52	55m	11	9.35
Hybrilla	IE	2006	V52	65m	3	2.55
Inchee / Midas	IE	2006	V90	80m	6	18.00
Inis Mean, Oileain Arann, Co. Galway	IE	2002	V33	40m	3	0.99
Inverin, Spiddal, Co. Galway	IE	2002	V52		5	4.25
Jaroma	IE	2005	V52	50m	3	2.55
Kelburn	GB	2012	V80	60m	14	28.00
Kilgarvan	IE	2005	V90	80m	15	45.00
Kiltmagh	IE	2002	V52	49m	3	2.55
KM+C	IE	2013	V90	80m	9	22.00
KM+C	IE	2013	V80	80m	6	12.00
KM+C	IE	2013	V52	65m	11	9.35
Korinthos	GR	2011	V52	49m	32	27.20
Lahanaght	IE		V52		5	4.25
Largan Hill, Ballaghaderreen	IE	2000	V52	49m	6	5.10
Le Bois du Haut (Atrebatie)	FR	2013	V90	105m	4	12.00
Lendrums Bridge Phase 1, Co. Tyrone	GB	2000	V47		9	5.94
Lendrums Bridge, Co. Tyrone	GB	2003	V47		11	7.30
Le Vert Galant (Atrebatie)	FR	2013	V90	105m	4	12.00
Lindhurst	GB	2010	V90	80m	5	10.00
Lisheen Mines	IE	2009	V90	95m	18	36.00
Lisheen Mines 2	IE	2013	V90	95m	12	24.00
Loughderryduff	IE	2008	V52	55m	9	7.65
Mackies	GB	2007	V52	49m	2	1.70

Continued





## WINDHOIST PROJECTS FOR VESTAS



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Meenadreen	IE	2002	V52	55m	6	5.10
Meenaniaalta, Co. Donegal	IE	2002		49m	3	2.55
Milane Hill, Dunmanway	IE	2000	V52	49m	6	5.10
Milton Keynes	GB	2010	V90	80m	7	14.00
Moanvaun	IE		V52		1	0.85
Molly Mountain	GB	2014	V90	80m	5	15.00
Mount Eagle 2	IE	2009	V52	44m	1	0.85
Mount Eagle 2	IE	2009	V52	55m	1	0.85
Mount Emerald	AU	2017	V112	84m	16	52.8
Mount Emerald	AU	2017	V117	90m	37	127.65
Musselroe	AU	2013	V90	80m	56	168.00
Mynnd Clogau	GB	2005	V52	40m	17	14.45
North Pickenham	GB	2014	V100	80m	2	3.60
North Rhinns	GB	2009	V80	60m	11	22.00
Owenreagh Ext. Co. Tyrone	GB	2008	V52	40m	6	5.10
Pates Hill	GB	2009	V52	67m	7	14.00
Pen Bryn Oer	GB	2017	V90	65m	3	6
Preuseville	FR	2014	V100	80m	3	7.50
Rageade	FR	2013	V100	95m	6	12.00
Raheen Bar, Castlebar, Co. Mayo	IE	2002	V52	49m	24	20.40
Randalstown	GB	2007	V52	44m	1	0.85
Roskrow barton	GB	2008	V52	44m	2	1.70
Sanquhar	GB	2017	V112	74m	9	30.00
Silahertane	IE	2009	V52	55m	10	8.50
Skagen	DE	2017	V112	84m	5	17.25
Skehanagh	IE	2005	V52		11	9.00
Slieve Rushen	GB	2008	V90		18	54.00
Sonnagh Old, Loughrea, Co. Galway	IE	2000	V52	49m	9	7.60
Stags Holt	GB	2010	V80	67m	4	8.00
Tallentire	GB	2013	V80	80m	6	12.00
Taralga	AU	2014	V100	80m	51	106.80
Tornado	IE	2007	V52	60m	2	1.70
Tsitsikamma	ZA	2015	V112	94m	31	93.00
Tullynahaw, Arigna, Co. Roscommon	IE	2009	V80	67m	11	22.00
Tween Bridge	GB	2012	V90	80m	22	44.00
Tyrsillagh, Tralee, Co. Kerry	IE	2004	V49	55m	24	17.00
Vromosikia	GR	2011	V52	49m	13	11.05
Wadlow, Cambridge	GB	2012	V90	75m	13	26.00
Waterloo	AU	2010	V90	80m	37	111.00
Weston	GB	2014	V100	80m	2	3.60

## WINDHOIST PROJECTS FOR VESTAS



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Windscales Ext. Cumbria	GB	2005	V52	49m	8	6.80
Winscales Moor	GB	2009	V52	55m	7	5.95
Wolf Bog, Co. Antrim	GB	2007	V80	60m	10	20.00
Wrydecroft	GB	2015	V80	60m	13	26.00
<b>Total</b>					1297	2317.51



## WINDHOIST PROJECTS IN AUSTRALIA

Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Cape Bridgewater, Repower	AU	2008	MM82	69m	29	58.00
Cape Nelson, Repower	AU	2008	MM82	69m	22	44.00
Gullen Range, Goldwind	AU	2013	GW100/GW82	80m	73	165.50
Gunning, Acciona	AU	2011	AW77/82	80m	31	62.00
Hepburn, Repower	AU	2011	MM82	69m	2	4.00
Hornsedale, Siemens	AU	2016	113DD	92.5m	32	73.60
Mortons Lane, Goldwind	AU	2011	GW82/1500	80m	13	19.50
Mumbida, GE	AU	2012	2.5XL	85m	22	55.00
Mussleroe, Vestas	AU	2012	V90	80m	56	168.00
Coober Pedy, Senvion	AUS	2017	MM92	80m	2	4.00
Snowtown, Siemens	AU	2013	3MW DD	80m	90	270.00
Taralga, Vestas	AU	2014	V100	80m	51	106.80
Waurbra, Acciona	AU	2009		80m	24	36.00
Waterloo, Vestas	AU	2010	V90	80m	37	111.00
White Rocks, Goldwind	AU	2017	GW2500	90m	70	175.00
Woodlawn, Suzlon	AU	2011	S88	80m	23	48.30
<b>Total</b>					577	1400.70



## WINDHOIST PROJECTS FOR SENVION



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Achany, Lairg	GB	2009	MM82	59m	19	38.00
Achairn	GB	2009	MM82	59m	3	6.00
A'Chruach	GB	2015	MM92	80m	12	24.00
A'Chruach	GB	2015	MM100	75m	9	18.00
Armistead	GB	2013	MM82	59m	6	12.00
Avonmouth	GB	2013	MM92	80m	4	8.00
Barlockhart	GB	2013	MM92	69m	4	8.00
Batsworthy Cross	GB	2016	MM82	59m	9	18.00
Baudignecourt	FR	2011	MM92	100m	6	12.00
Beinnuen	GB	2016	3.4M	80m	32	108.80
Beringen	BE	2015	MM100	100m	1	2.00
Bevillier	FR	2009	MM82	100m	5	15.00
Bicker Fen, Lincolnshire	GB	2008	MM82	59m	13	26.00
Bishopthorpe	GB	2016	MM92	64m	8	16.40
Blantyre	GB	2013	MM92	69m	6	12.00
Blyth Harbour	GB	2013	3XM	78m	1	3.40
Boundary Lane	GB	2013	MM92	69m	3	6.00
Bradwell	GB	2013	MM82	80m	10	20.00
Brechfa West II	GB	2017	MM92	98.5m	28	56.00
Bretell	FR	2012	MM92	100m	15	30.00
Broomhill	GB	2009	MM82	59m	4	8.00
Burnfoot Hill	GB	2010	MM82	59m	13	26.00
Burnfoot Hill 2	GB	2014	MM82	59m	2	5.00
Burton Pidsea	GB	2013	3.4M	78m	3	10.20
Butterwick Moor	GB	2010	MM82	69m	10	20.00
Cairnborrow	GB	2016	MM62	59m	5	11.30
Cape Bridgewater WF, Australia	AU	2008	MM82	69m	29	58.00
Cape Nelson, Australia	AU	2008	MM82	69m	22	44.00
Carsington	GB	2013	MM82	59m	4	8.00
Caton Moor Repowering, Lancashire	GB	2006	MM70	59m	10	20.00
Chiplow	GB	2015	MM82	59m	4	8.00
Ciney 2	BE	2016	3.2M	93m	1	3.20
Clashindarroch	GB	2014	MM82	69m	18	36.00
Coldham	GB	2012	MM82	59m	7	14.00
Coober Pedy	AUS	2017	MM92	80m	2	4.00
Cotton Farm	GB	2012	MM92	80m	8	16.00
Cramlington	GB	2012	MM92	80m	2	4.00
Croda Chemicals	GB	2008	MM92	80m	1	2.00
Crook Hill	GB	2015	3XM	73m	11	33.00
Dampierre, France	FR	2010	MM92	96m	12	24.00

Continued



## WINDHOIST PROJECTS FOR SENVION



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Dassenveld	BE	2017	MM100	100m	1	2.00
Dassenveld	BE	2017	3.4-114	93m	2	6.80
Dew Lay	GB	2010	MM92	80m	1	2.00
Dye	GB	2017	MM100	100m	7	14.00
Earls Hall	GB	2012	MM92	80m	5	10.00
Echalot	FR	2012	MM92	100m	8	16.00
Eye Airfield	GB	2013	3.4m	78m	2	6.80
Fairburn	GB	2009	MM82	59m	20	40.00
Ffynnon Oer, Neath Port Talbot	GB	2006	MM70	59m	16	32.00
Frevent	FR	2014	MM92	80m	4	8.00
Flimby	GB	2012	MM92	69m	3	6.00
Foye	FR	2014	MM92	80m	5	10.00
Frehne	DE	2015	MM92	100m	2	4.00
Ghent Coal Tower	BE	2015	MM100	100m	3	6.00
Glasmore Ext	GB	2013	MM82	59m	6	12.00
Greendykeside WF, South Lanarkshire	GB	2007	MM82	69m	2	4.00
Goole 1	GB	2013	MM92	80m	2	4.00
Goole 2	GB	2014	MM92	80m	14	28.00
Goole Fields II	GB	2016	MM92	78.5m	4	8.00
Great Eppleton	GB	2011	MM92	68.5	4	8.00
Gordonbush	GB	2012	MM82	69m	35	70.00
Hadem Steen	DE	2014	3.2M	93m	5	16.00
Hall Farm	GB	2012	MM82	59m	12	24.00
Hameldon Hill	GB	2013	MM82	69m	3	6.00
Hameldon Hill, Lancashire	GB	2007	MM70	55m	3	4.50
Hampole	GB	2014	MM92	80m	4	8.00
Hangest Sur Somme	FR	2014	MM92	100m	10	20.00
Haswell Moor	GB	2010	MM82	59m	5	10.00
Haswell Moor	GB	2017	MM82	69m	1	2.00
Hazelhead	GB	2011	MM82	59m	3	6.00
Hepburn	AU	2011	MM82	69m	2	4.00
Holzhausen	DE	2014	3.2M	93m	1	3.20
Hook Moor	GB	2015	MM100	75m	5	10.00
Hyndburn	GB	2011	MM82	80m	12	24.00
Kessingland	GB	2011	MM92	80m	4	8.00
Knabs Ridge, Felliscliffe	GB	2007	MM70	58m	4	8.00
Knabs Ridge 2, Felliscliffe	GB	2008	MM70	69m	8	16.00
Langres Sud	FR	2010	MM92	88m	26	52.00
Langley	GB	2008	MM82	63m	4	8.00
Lilbourne	FR	2014	MM100	75m	5	10.00

Continued



## WINDHOIST PROJECTS FOR SENVION



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Ligny	FR	2014	MM92	80m	4	8.00
Lihus	FR	2014	MM92	80m	5	10.00
Lochhead	GB	2009	MM82	59m	3	6.00
Longpark	GB	2009	MM82	59m	15	30.00
Longpark	GB	2009	MM82	69m	4	8.00
Low Spinney, Gilmorton, Leicestershire	GB	2011	MM92	80m	4	8.00
Lussac	FR	2017	3.0-120	89m	6	18.00
Maida	FR	2012	MM92	78.5	32	64.00
Marr	GB	2011	MM92	80m	4	8.00
Montbray and Margueray	FR	2013	MM82	69m	10	20.00
Mont Familot	FR	2014	3.2M	93m	1	3.20
Montifilant	FR	2012	MM92	100m	5	10.00
Muirhall	GB	2010	MM92	80m	6	12.00
Muirhall Ext	GB	2014	3.2m	80m	2	6.40
New Albion	GB	2015	MM82	59m	7	14.00
Newark (Hawton)	GB	2017	MM100	75m	3	10.00
North Steads	GB	2016	MM92	78m	9	18.00
Oakdale	GB	2013	MM100	80m	2	4.00
Olen	BE	2017	MM92	100m	2	4.00
Penny Hill	GB	2013	3.4M	80m	6	20.40
Quixwood	GB	2017	MM82	59m	1	2.00
Ransonmoor, Cambridgeshire	GB	2008	MM82	69m	2	4.00
Ray Estate	GB	2016	3.4M	76.5m	16	54.40
Reaps Moss	GB	2015	3.4M	73m	3	10.20
Red Tile, Cambridgeshire	GB	2007	MM82	59m	12	24.00
Renneville	FR	2014	MM92	100m	5	12.50
Rusholme, Selby	GB	2010	MM82	59m	12	24.00
Sisters	GB	2016	MM92	80m	4	8.00
Sixpenny Wood	GB	2013	MM92	80m	10	20.00
Sober Hill	GB	2013	MM82	59m	6	12.00
Somme Soude	FR	2014	MM92	100m	8	16.00
Sterpenich	BE	2016	MM100	100m	3	6.00
St. Hilaire	FR	2015	MM92	80m	6	12.00
Strathy North	GB	2015	MM82	69m	33	66.00
Stroppen	BE	2016	3.4M	93m	1	3.40
Source De La Loire	FR	2011	MM92	80m	9	18.00
Tessengerlo	BE	2014	MM92	80/100m	7	14.00
Tirgwynt	GB	2016	MM92	69m	12	24.00
Tormywheel	GB	2017	MM92	64m	6	12.00
Ville Aux Bois	FR	2015	MM100	100m	4	8.00
Walkway High, County Durham	GB	2008	MM82	69m	7	14.00

Continued





## WINDHOIST PROJECTS FOR SENVION



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Wanderup	DE	2014	3.2M	93m	5	16.00
Wandylaw	GB	2013	MM92	80m	10	20.00
Wathgar	GB	2013	MM82	59m	5	10.00
Wear Point	GB	2013	MM82	59m	4	8.00
West Durham	GB	2009	MM82	59m	12	24.00
West Newton	GB	2013	MM82	59m	3	6.00
Witherwick	GB	2013	MM82	69m	9	18.00
Yelvertoft	GB	2013	MM92	80m	8	16.00
Zuidlob	NL	2012	3XM	100m	36	108.00
<b>Total</b>					1014	2204.10

## WINDHOIST PROJECTS FOR GAMESA



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Burnt House	GB	2013	G80	60m	3	6.00
Carrane Hill, Co. Sligo	IE	2006	G52	44m	4	3.40
Corkermore, Bruckless, Co. Donegal	IE	2011	G80	60m	5	10.00
Darracott, Great Torrington	GB	2011	G52	49m	3	2.55
Drumlough Hill, Buncrana	IE	2010	G52	55m	12	10.20
Geevagh	IE	2005	G52	44m	6	5.10
Harestanes	GB	2013	G87	78m	68	136.00
Kealkill	IE	2006	G52	44m	10	8.50
Lynemouth	GB	2011	G87	80m	13	26.00
Meikle Carewe	GB	2013	G52	44m	12	10.20
Moreac	FR	2010	G90	78m	8	16.00
Moneenative, Arigna, Co. Sligo	GB	2005	G52	44m	14	11.90
Nouakchott	MR	2015	G97	90m	15	30.00
Souvine	FR	2011	G90	78m	4	8.00
Tangy	GB	2007	G52	49m	7	5.95
Trayes	FR	2010	G52	78m	5	10.00
<b>Total</b>					189	299.80

## WINDHOIST PROJECTS FOR SIEMENS

# SIEMENS

Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Altahullion Phase 1	GB	2003	Bonus	49m	20	26.00
Altahullion Phase 2	GB	2007	Siemens	49m	9	11.70
Ardoch	GB	2014	2.3MW	63M	5	11.50
Artfield Fell, Dumfries & Galloway	GB	2005	Siemens	49m	15	19.50
Beedenbostel	GER	2017	3.0-113	115m	5	15.00
Beinn An Tuirc 2	GB	2012	2.3MW	58.5m	21	48.30
Bessy Bell Ext. Co.Tyrone	GB	2008	Siemens	49m	6	9.00
Bevern	BE	2017	3.2-113	92.5m	3	9.60
Blackcraig	GB	2016	2.3MW	68.3m	23	52.90
Black Hill, Scottish Borders	GB	2007	Siemens	47m	22	28.60
Blaen Gwyn, Wales	GB	2009	82VS	68.3m & 63.3m	10	23.00
Brebek	DE	2015	3.0 DD	92.5m	5	15.00
Bruckana	IE	2014	3MW DD	99.5M	14	42.00
Callagheen, Co. Fermanagh	GB	2005	Siemens	47m	13	16.90
Carcant Hill	GB	2009	82VS	68m	3	6.90
Cark Extension	IE	2009	82VS	68m	4	9.20
Carno Extension 2	IE	2009	Siemens	49m	12	15.60
Causeymire, Scotland	GB	2004	Bonus	60m	21	46.00
Cloosh	IE	2016	3MW DD	89.5m	36	108.00
Clyde, Biggar, South Lanarkshire	GB	2011	Siemens 2.3	78.3m	152	349.60
Coomacheo	IE	2008	Siemens	68.3m	18	41.40
Croisette	FR	2015	3MW DD	99.5m	4	12.00
Crystal Rig 2, Dunbar, East Lothian	GB	2010	82VS	68 - 80m	60	138.00
Curragh, Co. Cork	IE	2009	82VS	80m	8	18.40
Damme II	GER	2017	3.3-130	135m	6	19.80
Drumderg, Perth & Kinross	GB	2008	Siemens 2.3	68.3m	16	36.80
Ewe Hill	GB	2016	2.3MW	63.3m	6	13.80
Ewe Hill II	GB	2017	2.3-93	63.3	16	36.80
Glens of Foudland, Aberdeenshire	GB	2005	Bonus 1.3	47m	20	26.00
Gortfinbar	IE	2016	3.0-101	74m	5	12.50
Hagshaw Hill Extension	GB	2008	Siemens	49m	20	26.00
Hautes Borne	FR	2015	3MW DD	99.5m	5	15.00
Hill of Lybster Ext, Forss, Highland	GB	2007	Siemens	49m	4	5.20
Hill of Towie	GB	2012	2.3MW	58.5m	21	48.30
Hollyford	IE	2013	3MW DD	74.5m	3	9.00
Holzacker	DE	2014	3MW DD	92.5	7	21.00
Hornsedale	AU	2016	113 DD	92.5m	32	73.60
La Fatarella	ES	2011	Siemens 2.3	80m	22	50.60
Lochluichart	GB	2013	3MW DD	74.5m	23	69.00
Lough Hill Resubmission, Co. Tyrone	GB	2007	Siemens	49m	6	7.80

Continued

## WINDHOIST PROJECTS FOR SIEMENS

# SIEMENS

Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Lowenstedt	DE	2015	3.0DD	92.5m	5	15.00
Meenbog	GB	2013	2.3MW	80m	3	6.90
Meentycat, Ballybofey, Co. Donegal	IE	2005	Siemens	58.5m	23	52.90
Meentycat, Ballybofey, Co. Donegal	IE	2005	Siemens	49m	15	19.50
Millour Hill	GB	2012	3MW DD	80m	12	36.00
Moel Moelogan, Conwy	GB	2008	Siemens	49m	9	11.70
Mont De Bagny	FR	2017	3.0-113	99.5m	8	24.00
Mont Saint Benoit	FR	2016	3.2MW	92.5m	4	12.80
Mount Lucas	IE	2014	3MW DD	99.5m	28	84.00
Murat, France	FR	2007	Siemens	69m	9	11.70
Offtec Extension	GB	2017	3.6-130	115m	2	7.20
Pen Y Cymoedd	GB	2016	3.00 DD	89.5m	76	228.00
Plouvien	FR	2006	Siemens	49m	10	13.00
Pont Melvez, France	FR	2006	Siemens	60m	15	19.50
Raheenleagh	IRL	2016	3.2-108	79.5m	11	35.20
Remigny	FR	2014	2.3MW	99.5m	8	18.40
Rosehall	GB	2012	1.3MW	62m	19	24.70
Saint Pierre de Maille III	FR	2017	3.2-113	99.5	8	25.60
Slieve Bawn	IRL	2016	3.2-101	79.5m	20	64.00
Slieve Kirk	GB	2011	2.3MW	68m	12	27.60
Snowtown	AU	2013	3MW DD	80m	90	270.00
Suderlugum	DE	2014	3MW DD	92.5m	12	36.00
Tarfaya	MA	2013	2.3MW	80m	131	301.30
Taurbeg	IE	2005	Siemens	68.3m	10	23.00
Tilbury Docks	GB	2013	2.3MW	80m	4	9.20
Toddleburn, Near stow, Edinburgh	GB	2009	82VS	80m	9	20.70
Toddleburn, Near stow, Edinburgh	GB	2009	82VS	68.3m	3	6.90
Torrance	GB	2013	3MW DD	74.5	3	9.00
Val de Noye	FR	2009	Siemens	80m	12	27.60
Valhuon - Hermine	FR	2009	Siemens	80m	15	34.50
Westmill, Oxfordshire	GB	2008	Siemens 1.3	49m	5	6.50
Wind aan de Stroom	BE	2015	3MW DD	115m	15	45.00
Wind aan de Stroom (WAS)	BE	2016	3.2MW DD	115m	1	3.20
<b>Total</b>					1308	3075.9



## WINDHOIST PROJECTS FOR ACCIONA



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Dunfermline	GB	2011	AW1500	60m	1	1.50
Green Knowes, Perth & Kinross	GB	2008		60m	18	51.00
Greenvale	GB	2014	AW77	71.5m	1	1.50
Gunning, Australia	AU	2011	AW77/82	80m	31	62.00
Longlands/Greenvale	GB	2014	AW77	60m	1	1.50
Loscar	GB	2010		60m	1	3.00
Tula, Sardinia	IT	2009		80m	34	51.00
Waubra, Australia	AU	2009		80m	24	36.00
<b>Total</b>					111	207.50

## WINDHOIST PROJECTS FOR GOLDWIND



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Gullen Range	AU	2013	GW100/GW82	80m	59	147.50
White Rocks	AU	2017	GW2500	90m	70	175.00
Mortons Lane	AU	2011	GW82/1500	80m	13	19.50
<b>Total</b>					129	342.00

## WINDHOIST PROJECTS FOR SAMSUNG



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Fife Energy Park	GB	2013	7MW	95m	1	7.00
<b>Total</b>					1	7.00

## WINDHOIST PROJECTS FOR GE WIND ENERGY



Windfarm	Location	Year	Turbine Type	Tower Height	Quantity	MW
Akfenir	MA	2016	2.85MW	75m	28	79.80
Barranafaddock	IE	2015	2.85MW	75m	12	34.20
Dunmaglass	GB	2016	2.85MW	70m	17	48.45
Mumbida	AU	2012	2.5XL	85m	22	55.00
Park Spring	GB	2015	2.85MW	75m	3	8.55
Todd Hill	GB	2014	2.5MW	80m	4	10.00
Torrance	GB	2014	2.5MW	80m	2	5.00
<b>Total</b>					88	241.00

# SAFETY RECORD

## Health & Safety at Windhoist

**All Windhoist Projects are driven through the medium of idealistic health & Safety objectives. Windhoist have a dynamic Health & Safety Management system that is centrally monitored by the Group Environmental, Health & Safety Manager.**

Site visits are carried out periodically and following each site visit, a health and safety inspection report is compiled which highlights both current and foreseeable issues. At all times, the Group Environmental, Health & Safety Manager shall liaise directly with the individual Site supervisor as well as the overall Project Managers. Where particular difficulties arise from the implementation of Safety, Health or Welfare standards on site these shall be referred to the Company Director(s), Operations Manager and/or Project Manager.

The Group Environmental, Health & Safety Manager shall be aware of the Company's Safety Statement and shall monitor the implementation of relevant health and safety standards on all Windhoist sites. It shall also be the responsibility of the Group Environmental, Health & Safety Manager to bring to the attention of the Site Supervisor, Project Manager, Operations Manager and/or Company Directors areas of Health, Safety or Welfare that are in need of improvement on that particular site.

The Group Environmental Health & Safety Manager will also make provisions to:-

- (a) Advise all levels of Windhoist Management as to the observance of the requirements of the Safety Statement / Safety Management System / and relevant legislation.
- (b) Exercise a general supervision of the observance of the above requirements and the promotion of the safe conduct of work generally.

In particular the Group Environmental, Health & Safety Manager shall be responsible for carrying out the following functions, and / or for ensuring that others carry out those functions on their behalf:

- Ensuring that injury reporting / investigation procedures are implemented on site.
- Ensuring that Site Safety Inspections are conducted regularly and a Site Safety Report completed, and that work is being conducted in accordance with the Safety Statement.
- Ensuring that statutory inspections are carried out, i.e. crane, lifting plant, lifting gear, etc.
- Ensuring that statutory certificates are available for inspection on site.
- Ensuring that regular Tool Box Talks are held on site.
- Ensuring that all personnel working on site receive a Site Safety Induction.
- Ensuring that all works contracted out to sub-contractors have the correct documentation, i.e. Safety Statement / Method Statements / JSA's.
- Ensure that personnel have received appropriate Health, Safety & Environmental training.
- Continuous Risk Assessment and Method Statement Reviews.
- Responsible for ongoing Safety Campaigns.



Top photo: Demag CC2800NT, erecting Siemens turbines, Tarfaya, Morocco

## Ensuring a healthy Workforce For Everyone

**All Windhoist employees receive Health surveillance upon commencement with the company.**

Health surveillance provides Windhoist with sufficient information to protect employees from illness caused by being exposed to health risks at work. It enables the Company to manage these risks effectively by detecting how our control measures are working in practice and help to pinpoint where we need to take further steps.

It also provides a valuable opportunity for feedback from employees and a chance to reinforce the health and safety messages.

## Drug and Alcohol Sampling

**Windhoist have a revised Health and Safety statement which has included the introduction of both Drug and Alcohol testing on site and at all company depots.**

It is envisaged that the introduction of such testing can provide reassurance to our customer as well as increase productivity while providing a competent and coherent workforce.





## Training & Providing a Competent Workforce

**Continual Professional Development (CPD). Operatives will be retrained as required to ensure that their competency is maintained to a consistent and efficient level.**

The development of competence and CPD is very important to ensure both our employees and management alike have the necessary skills, information, competence and confidence to perform tasks safely and effectively as per the company Health & Safety Policy. Windhoist has developed a detailed training matrix for all company employees.

It is a company objective that all employees receive training in the following areas;

- Slinger / Signaller / Banksman / Dogman
- Telescopic Handler
- Bolt Tensioning
- Harness Inspection
- Manual Handling
- Abrasive Wheels
- IPAF MEWP / EWP
- First Aid
- Environmental Awareness & Spills Control Training
- Safepass / Construction Induction Training / CSCS
- Turbine Specific Technical Training
- GWO Training

Other specified training will be organised as required. Examples are as follows:

- Rescue from Height
- Mobile crane and Crawler Crane operation
- Appointed Person's
- Quality Management Training

Our client may also request training in order to instruct and inform erecting personnel in the safe assembly of the specified turbine components.



## Providing Competent Sub-Contractors

**The competency of each subcontractor is assessed by means of a Pre Qualification Questionnaire (PQQ).**

This allows our company to review which contractors are suitable for appointment based on how they control their Safety Management System, Environmental Management System & Quality Management System in order to create a safe working environment for everybody that meets the needs & demands of our customers.

## Communicating the Safety Message

**The combining of Communication and in house training is key to the success of our Safety Management System and how this reflects in practice on site.**

We believe that the consistent use of in house training programmes; verbal, written and visual are vital to promote and inform personnel of all aspects of the safety culture within Windhoist.

We as a Company have developed a simple yet effective approach to communicating and promoting our safety management system as follows:

- Management have regular meetings to discuss the progress of each site in relation to health and safety. At these meetings, Safety Representatives & Management alike can plan arrangements for future projects as well as overcome issues which may be present on existing projects.
- All Windhoist personnel are required to undergo a rigorous Company induction process. We feel that this is one of the most important aspects of the Safety Management System. We consider it the best opportunity to influence safety behaviour on site as it offers all attendees an insight to what is expected from them. We demand that all employees adhere to our Environmental, Quality & Health & Safety Policy and arrangements.

With respect to training, only trained and competent personnel are tolerated for specified operations. New employees must also undergo health screening prior to commencing with the company.

- All personnel, whether directly employed by Windhoist or subcontracted must undergo a site specific induction prior to commencing on site. At the induction each employee is made aware of specified site rules and reminded of safe working procedures. A toolbox talk is held with all Windhoist personnel (including those subcontracted under Windhoist) to ensure everyone present is clear regarding the job specific method of works and requirements.



## Consultation

**At Windhoist we understand the need to seek assistance from external safety providers and competent consultants. We have fostered close working relationship with numerous such practices.**

We understand that the experience and abilities of these practices differ, therefore, it is of vital importance to ensure the correct consultant is selected for a particular project. In any such appointment the Company Directors in close consultation with the Group Environmental Health & Safety Manager will appoint these professionals based largely on their experience and track record of competently carrying out work on similar projects.



## Windhoist Safety Management System

Windhoist has a current Health & Safety Management system that complies with all aspects of OHSAS 18001, a standard we achieved in August 2010. The purpose of achieving an OHSAS 18001 standard within Windhoist was to facilitate the integration of health and safety management systems within the organization.

The current Safety Management System used by Windhoist is a proactive and dynamic system. At Windhoist, we believe that an integral part of this Safety Management System is the recognition that Health and Safety is the responsibility of each and every person within the organisation, therefore Health and Safety is fully integrated into both the management and decision making processes within the organisation.

Windhoist utilises progressive, preventative measures to ensure a safe working environment for our direct employees, subcontractors and those whom may be affected by our work. It is in the best interest of everyone who works at Windhoist to become familiar with the company's Health & Safety requirements. Safety procedures are designed to secure, in as far as is possible, the safety of every employee, sub-contractor, third parties or anyone working in association with or on behalf of Windhoist. Adherence to our safety system is a condition of employment and negligence in safety will result in disciplinary action.

The Safety Management System is a detailed guide to the health and safety procedures required at Windhoist. It is designed to heighten awareness among Employees and Sub-Contractors across the company about our shared responsibilities for safety, health and welfare. Copies of the Safety Management System documents include details of the statutory Work Acts, Regulations and guidance under Health & Safety legislation within various jurisdictions. These are distributed to each site supervisor and are available at every location where Windhoist conducts business i.e. sites, head office, etc.

Windhoist Safety Statement is available for inspection at all times by anybody who might be affected by our activities.

The following items are covered by our Safety Management System, (This list is intended as an example only)

- Safety Management Meetings between Safety Representatives & Management.
- Health & Safety Policy Statement
- Employee Obligations
- Health and Safety Legislation
- Site Inductions
- Toolbox Talks/Safety Alerts
- Disciplinary Procedures
- Personal Protective Equipment (PPE) Register
- Safety Harness/Lanyard Inspection
- Method Statement /JSA
- Chemical/Hazardous Substances/COSHH
- Accident Procedure and Investigation/Incident Reports
- Emergency Evacuation Procedure
- Plant Inspection Reports
- Prelift checklists, crane mobilisation documents and Critical Lift Documents
- Training Matrix
- Permit to work systems (as required)

The Safety Management System itself is evaluated on an ongoing basis by our HSE Manager to reflect changes in legislation and company policy.



Middle photo: TC2800 & LTM1130 erecting Siemens turbines, Pen Y Cymoedd, UK

## Accidents

To date Windhoist have had an excellent health & safety record. Our accident reporting system has been developed as the Company progressed and we consider it to be a very comprehensive system.

We have used our past experiences and mistakes to adapt the system and ensure that all accidents, incidents and near misses are dealt with in a competent and professional manner. All accidents, incidents and near misses that occur on site are reported immediately to both the Site Supervisor and the Group Environmental Health & Safety Manager. We understand that a swift and proportionate response is required to all incidents.

On site, the site supervisor, Project Manager(s) and Group Environmental Health & Safety Manager investigate the circumstances of the accident and issue remedial actions to prevent a reoccurrence of the accident. The Group Environmental Health & Safety Manager then issues a three day follow up form, informing all levels of Management of the follow up to the incident including any recommendations to be made that might affect company policy or procedures. The Group Environmental Health & Safety Manager uses the information gained from the investigations to review policy and procedures on an ongoing basis, improvement plans or suggestions are then issued to the sites or if necessary a "Safety Alert" can be issued, We feel the "Safety Alert" is a vital tool to inform and warn other sites and workers of situations or circumstances that might affect their Safety. Details of past incidents/ accidents are discussed at all levels of coordination meetings from site level to Managing Director level.

All near misses and dangerous occurrences are dealt with in a similar manner to the incident/accident investigation. We view near misses as "free consultancy" and acknowledge the correlation between near misses and serious accidents. It is because of this correlation that we monitor near misses very closely and take steps to ensure that lessons are learned from these incidents.

To date, there has been no prohibition action taken by any of the health and safety enforcing authorities globally regarding work(s) carried out by Windhoist despite numerous visits to sites that our employees have been contracted onto.





# RESOURCES AND PROCEDURES

## ISO STANDARDS

**Windhoist Ltd, and its subsidiary Companies Dan McNally Ltd and Windhoist Australia Pty Ltd, have an Integrated Management system that incorporates all aspects of quality, environmental and Health & Safety.**

As a direct result, Windhoist have achieved the following standards: OHSAS 18001, ISO 14001 and ISO 9001.

## COORDINATING COMMUNICATION INTERFACES WITH OUR CLIENT

**At each Windhoist project, co-ordination and cooperation between management, Site Supervisors and our client is paramount.**

Prior to commencing on site, risk assessments, Critical lift Documents and method statements/ JSA's are submitted to the client. Early submission of such documents allows the Client and Windhoist to review all procedures and ensure a final draft is approved. Site Investigation Reports and Site Surveys are also conducted by Windhoist Operation/Project/ Technical Manager to ensure all procedures such as road alignment and hard stand areas are as per specification. A Start up meeting takes place on all projects allowing both the client and Windhoist to discuss the project in detail and have measures in place for all eventualities. In addition to this, Windhoist issue a Prestart checksheet to all personnel involved with the proposed project to ensure all relevant documents, guidance, training, welfare and arrangements are in place prior to commencing on site.

Upon starting on site, A Member of Management will meet with the site team. Those present discuss the relevant documents applicable to the site and site specific details will be outlined. This ensures that the whole workforce is aware of site specific procedures and safe work practices for the given project. For the duration of the job, the Group Environmental Health and Safety Manager in association with the Project Manager and/or Company Directors attend site regularly to review work practices and discuss same with the client. It is felt that through these site visits, possible high risk work can be observed allowing Windhoist management to ensure all members of the site team are in adherence and understanding of the safe systems of work in place.



## MANAGING RISK

**As each Windhoist project is considered a place of work, we understand that it is through the early identification and analysis of risks that suitable control measures can be put in place for each and every project.**

As Windhoist has been operating on Windfarm projects for eighteen years, we are acutely aware of the overwhelming need for a combined and robust approach to hazard identification and their subsequent control.

The initial step to proper hazard identification and risk control is the appointment of competent and knowledgeable personnel. These personnel allow Windhoist to begin the process of ensuring the safety, health and welfare of the workforce as well as persons affected by our undertakings. All of our Site Supervisors closely monitor and observe the work schedule and from this we can ensure that the necessary control measures are in place in a timely fashion.

Going from a management level to the personnel on the actual site we have developed methods to ensure that risk assessments and risk controls are not simply a paper based exercise. All works on site are subject to a detailed method statement/JSA's, specific critical lift documents and crane mobilisation plans which are submitted to the client well in advance of the project commencing. This allows the Client and Windhoist to review the safe methods of work and lifting until a final draft has been approved. In addition to this, we use the combining of method statement/JSA & risk assessment as an information tool for those undertaking the work.

The Appointed Person in association with the Environmental, Health & Safety Manager are both responsible for the preparation of all risk assessments, critical lift documents, crane mobilisation plans and method statements / JSA's on all Windhoist projects noting that all are more than qualified and competent to do so.



*Bottom photo: Morocco*



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