

Guanillo wind farm (Dominican Republic) · quality supervision and blade inspection, 2018-2019

Wind energy services at the factory, the port and the wind farm

Inspection · Supervision and site management · Maintenance · Assembly · Rope access and blades · Drones

KEEPING THE WIND AT WORK

Since 2015 · Cidones (Soria, Spain) and Santiago de Chile

13

countries

4

continents

+50

wind farms and factories

2

offices: Cidones and
Santiago de Chile

10+

wind turbine platforms

WHO WE ARE

A wind energy services company with a team assembling turbines since 2010

Greenwork Technology was founded in 2015 in Cidones (Soria, Spain) for the assembly and maintenance of industrial installations. Since then it has grown by taking on new projects and responsibilities in the wind sector and has extended its services to Latin America through a subsidiary in Santiago de Chile, Greenwork Technology SpA.

The team has been assembling wind turbines since 2010: Akhfenir (Morocco, 2010), Oaxaca (Mexico, 2011), Barão São João (Portugal, 2012), Negrete, Tal-Tal and Rawson (2013), Talara (2014) and the Uruguayan wind farms (2015). Today we work for OEMs, developers, EPC contractors and wind farm owners in component inspection at factories and ports, quality supervision and site management, assembly, maintenance, rope access, blade repair and drone inspection. We are a drone operator and an official Yuneec distributor.

AV

Alberto Valero Carús

General manager ·
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2015

founded

13

countries

4

continents

+50wind farms and
factories**2**offices: Cidones
and Santiago
de Chile**10+**wind turbine
platforms**Team milestones****2010**

Akhfenir (Morocco): assembly of Alstom ECO 80 turbines.

2011

Oaxaca (Mexico): assembly of Vestas V100.

2012

Barão São João (Portugal): assembly of Repower MM92.

2013 – 2014

Negrete and Tal-Tal (Chile), Rawson (Argentina) and Talara (Peru): assembly.

2015

Greenwork Technology S.L.U. is founded. Assembly and cabling at Julieta, Rosario, Libertad and Tops (Uruguay).

2016 – 2017

Costa Rica: quality supervision and inspections at Altamira, Campos Azules, Vientos de la Perla and Vientos de Miramar.

2018 – 2019

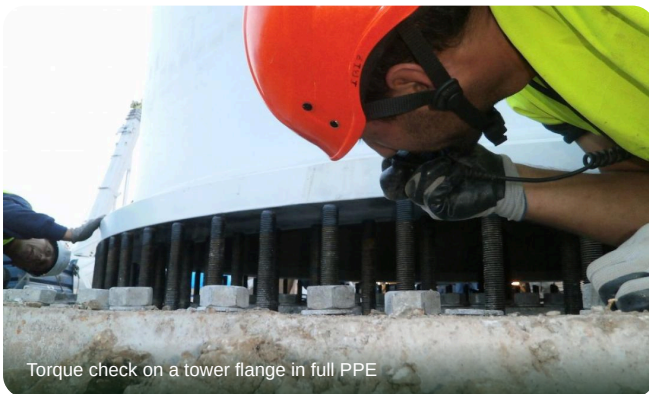
Dominican Republic, Guadeloupe and Argentina: quality supervision, blade inspection and assembly supervision. Tianjin factory (China): G145 prototype follow-up.

2020 – 2021

Factory and port inspections (Martifer, Nordex, Santander, Lumbier). Chile: Cabo Leones, Calama, La Estrella, Tchama, Alena and Los Olmos. Peru: Duna Huambos.

2022 – 2023

Haru Oni: SG132 and commissioning of the green hydrogen plant. Atacama, Llanos del Viento, Mesamávida, Renaico 2, Punta Lomitas, Arauco 2, Les Nouvion and Las Viñas.



Torque check on a tower flange in full PPE

SERVICE CATALOGUE

What we do and what each service includes

Services delivered by GWO-trained technicians and qualified rope access technicians, with per-turbine document control and an integrated quality, safety and environmental management system. Every job is proposed on a tailored basis after a free site visit.

● Inspections

- ✓ Wind turbine components at ports and factories, including prototype follow-up (G145 at the Tianjin factory, 2019; G4X at Cabo Leones)
- ✓ Blade inspection: by drone and with conventional photographic equipment
- ✓ Inspection of emergency, descent and rescue equipment
- ✓ Certification of lifelines, anchor points and service lifts
- ✓ End-of-warranty audit with a per-turbine punch list

● Maintenance

- ✓ Predictive, preventive and corrective maintenance; major correctives with main component exchange
- ✓ Retrofits (TN, anti-static) and torque checks
- ✓ Generator alignment and yaw ring replacement
- ✓ Turbine preservation and turbine cabling
- ✓ Task force: crew reinforcement for campaigns and punch lists

● Supervision and audits

- ✓ Supervision of quality, assembly, works, HSE, document control, civil works and construction contracts
- ✓ Site manager and quality inspector (Punta Lomitas, Tchama, Calama, La Estrella)
- ✓ Punch list and turbine handover
- ✓ Final inspections
- ✓ Factory quality control and prototype follow-up

● Assembly

- ✓ Wind turbine assembly, finishing works and cabling
- ✓ Service lift assembly and certification
- ✓ Commissioning: Haru Oni green hydrogen plant (Chile, 2022-2023)



Rope access work on a blade

SERVICE CATALOGUE

Assembly, cleaning, repairs and drones

● Cleaning

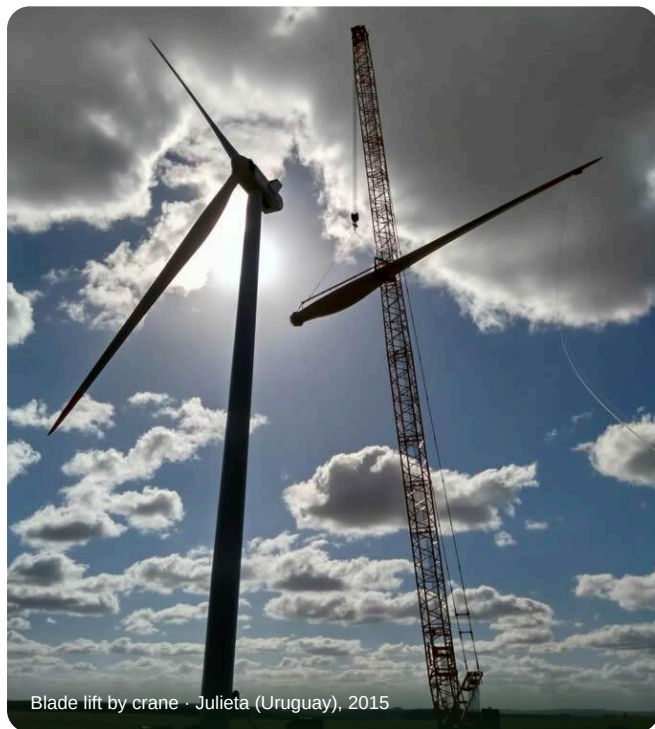
- ✓ Components on the ground or by rope access: towers, blades and tower sections
- ✓ Logo installation by rope access

● Repairs

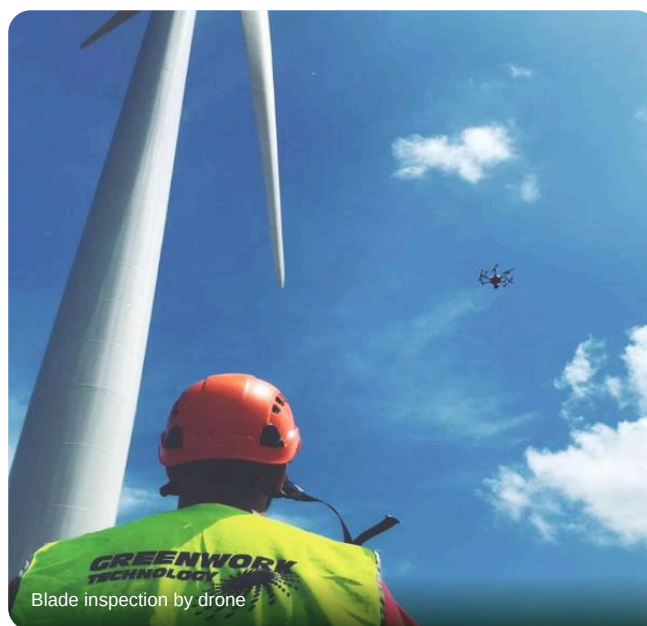
- ✓ Blades in general: categories 1-5, LEP, LPS and lightning receptors
- ✓ Nacelle and hub fibreglass, including hub fibreglass lowering by rope access
- ✓ Painting

● Drones

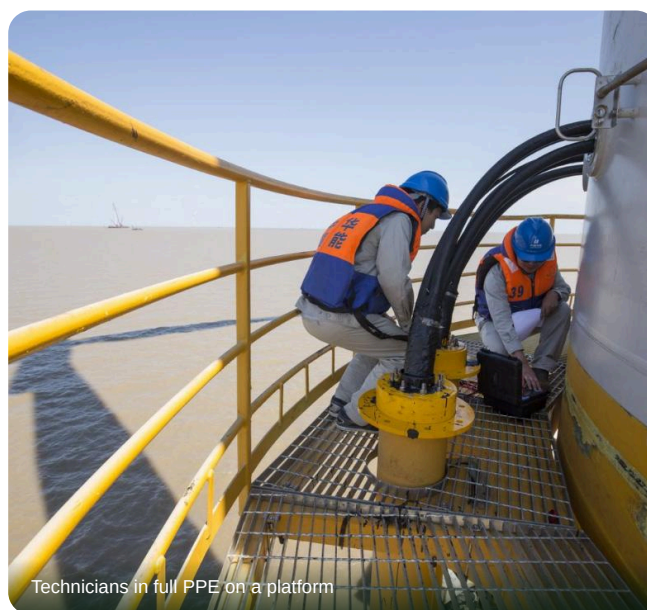
- ✓ Tower and blade inspection with an autonomous drone platform (LiDAR, HD imagery, cloud)
- ✓ AI-assisted damage annotation and a report within one week
- ✓ Yuneec sales, bundles and training as an official distributor



Blade lift by crane - Julieta (Uruguay), 2015



Blade inspection by drone



Technicians in full PPE on a platform

TECHNOLOGIES

More than 10 wind turbine platforms and a green hydrogen plant

Team experience in assembly, maintenance, supervision and inspection on these platforms. For other technologies we prepare the work with the OEM technical documentation and service bulletins.

Nordex

Delta 4000: N149, N163

Siemens Gamesa

SG132, SG145, G132, G145, G97, G114, G5X, G9X

Goldwind

GW87, GW136

Vestas

V90, V100, V110, V112, V136

Senvion / Repower

MM92

NEG Micon

Vertical tower cleaning (Los Cocos)

Acciona

AW3000

Envision

EN110

Alstom

ECO 80

Green hydrogen

Haru Oni plant (Chile, 2022-2023): preservation, service lifts, lifelines and commissioning

SERVICE COMMITMENTS

What every proposal includes

< 1 h

response during working hours and an initial proposal within 24 working hours

Free

site visit and diagnosis, with a tailored proposal in 7-10 days

24/7

on-call service for breakdowns on contracted wind farms

3 months

pilot plan to start with a limited scope

Contract

target availability agreed in writing

< 45 min

downtime per turbine for drone blade inspection



Campos Azules · Costa Rica



Agua Clara · Dominican Republic



Sainte-Rose · Guadeloupe

REFERENCES · 1/3

13 countries, 4 continents, more than 50 wind farms and factories

All references from the company dossier, by country. Client names and full contractual scopes are available on request under a non-disclosure agreement.

WIND FARM / FACILITY	TECHNOLOGY	YEARS	WORKS
Chile 17 REFERENCES			
Atacama	Nordex Delta 4000 · N163	2022 – 2023	Vertical cleaning, tower section cleaning and repair, TN retrofits, preservation, punch list and logo installation
San Pedro	Gamesa G97	2022 – 2023	Hub fibreglass lowering by rope access
La Cabaña	Goldwind GW136	2023	Detailed scope on request
Haru Oni	SGRE SG132 + planta de hidrógeno verde	2022 – 2023	Preservation, service lift assembly and certification, lifeline certification and commissioning of the hydrogen plant
Mesamávida	Nordex N149	2022 – 2023	Finishing works, assembly, TN retrofits, maintenance and lifelines
Puerto Lirquén	Goldwind GW136	2022 – 2023	Components at port
Renaico 2	Goldwind GW136	2022 – 2023	Vertical cleaning, tower sections and final punch list
Alena	Nordex Delta 4000 · N149	2020 – 2023	Preservation, tower section cleaning, turbine handover, lifelines, TN retrofits and maintenance
Llanos del Viento	SGRE SG145	2022 – 2023	Cabling, blade repair, punch list, turbine handover, lifelines, vertical cleaning, generator alignment and service lift certification
Tchama	SGRE SG145 / G145	2020 – 2022	Site manager, quality inspector, assembly, cabling, lifelines and service lifts
Cabo Leones I EXT, II, III y III EXT	SGRE G132 / G145	2020 – 2023	Quality supervision, G4X prototype follow-up, punch list, cabling, task force, component inspection, vertical cleaning of towers and blades, blade repair, lifelines, rescue equipment inspection and service lifts
Calama	SGRE G145	2020 – 2021	Site manager, quality inspector and lifelines
La Estrella	SGRE G145	2020 – 2021	Blade repair, site manager, quality inspector and lifelines
Los Olmos	Nordex N149	2020 – 2023	Finishing works, assembly, cabling, vertical cleaning, TN retrofits, maintenance and lifelines
Polche Sur	—	2022	TN retrofits and generator alignment
Negrete	Goldwind GW87	2013 · 2023	Assembly (2013) and maintenance (2023)
Tal-Tal	Vestas V100	2013	Assembly

REFERENCES · 2/3

13 countries, 4 continents, more than 50 wind farms and factories

Argentina · Peru · Uruguay · Mexico · Costa Rica · Dominican Republic

WIND FARM / FACILITY	TECHNOLOGY	YEARS	WORKS
Argentina 6 REFERENCES			
Arauco 2	SGRE SG132	2022 – 2023	Detailed scope on request
La Castellana	Acciona AW3000	2018	Assembly supervision
Pampa Energía III	Vestas V136	2019	Installation supervision
Pampa Energía II	Vestas V136	2019	Final inspections
García del Río y Vientos del Secano	Envision EN110	2019 – 2020	Installation supervisor, cluster B
Rawson	Vestas V100	2013	Assembly
Peru 3 REFERENCES			
Punta Lomitas	SGRE SG145	2022 – 2023	Site manager and quality inspector
Duna Huambos	Gamesa G114	2020 – 2021	Quality supervision, lifelines, retrofits and task force
Talara	Vestas V100	2014	Assembly
Uruguay 1 REFERENCE			
Julieta, Rosario, Libertad y Tops	Vestas V100 / V110	2015	Assembly and cabling
Mexico 1 REFERENCE			
Oaxaca	Vestas V100	2011	Assembly
Costa Rica 1 REFERENCE			
Altamira, Campos Azules, Vientos de la Perla y Vientos de Miramar	Gamesa G9X	2016 – 2017	Quality supervision and inspections and client punch list
Dominican Republic 6 REFERENCES			
Agua Clara y Guanillo	Gamesa G114	2018 – 2020	Quality supervision, blade inspection, lifelines, anti-static retrofits, descent equipment inspection and vertical tower cleaning (2020 tower cleaning together with Matafongo)
Quilvio Cabrera	Vestas V90	2020	Vertical tower cleaning
Larimar I y II	Vestas V112	2020 – 2021	Vertical tower cleaning
Juancho	Vestas V136	2020	Vertical tower cleaning
Los Cocos	NEG Micon	2020 – 2021	Vertical tower cleaning
Guzmancitos	—	2021	Vertical tower cleaning

REFERENCES · 3/3

13 countries, 4 continents, more than 50 wind farms and factories

Guadeloupe (French Antilles) · France · Portugal · Spain · China · Morocco

WIND FARM / FACILITY	TECHNOLOGY	YEARS	WORKS
Guadeloupe (French Antilles) 1 REFERENCE			
Sainte-Rose	Gamesa G9X	2018 – 2019	Quality supervision and blade inspection
France 2 REFERENCES			
Les Nouvion	Nordex N149	2022	Detailed scope on request
La Bouleste	Gamesa G5X	2021	Corrective maintenance and yaw ring replacement
Portugal 2 REFERENCES			
Fábrica Martifer	Nordex Delta 4000	2020	Factory and port inspections
Barão São João	Repower MM92	2012	Assembly
Spain 4 REFERENCES			
Las Viñas	Gamesa G97	2022	Detailed scope on request
Fábrica Nordex	Nordex Delta 4000	2020	Factory inspections
Puerto de Santander	—	2020	Port inspections
Puerto de Lumbier	Nordex Delta 4000	2020	Port inspections
China 1 REFERENCE			
Fábrica de Tianjin	Gamesa G145	2019	Quality control and G145 prototype follow-up
Morocco 1 REFERENCE			
Akhfenir	Alstom ECO 80	2010	Assembly



DRONE INSPECTION PLATFORM

Towers and blades inspected by autonomous drone, repeatable results and a report within one week

Our inspection platform combines an autonomous drone with a LiDAR scanner and HD imagery with a web portal for exploration and AI-assisted damage annotation. The goal is simple: stop each turbine for less than 45 minutes, cover 100% of the blade and deliver a report you can use to decide on repairs.

1 · Autonomous flight

LiDAR scan and HD imagery of the three blades and the tower. Downtime under 45 minutes per turbine, 100% blade coverage and results that are repeatable campaign after campaign.

2 · Cloud upload

Images are uploaded automatically to the cloud, organised by fleet, wind farm, turbine and blade.

3 · AI-assisted annotation

Each damage is annotated with a confidence index and classified by type, severity and size; a technician reviews and validates the classification.

4 · Report within one week

Per-turbine report with located and prioritised damages, ready to plan repairs or file warranty claims.

5 · Web portal

Dashboards by fleet, wind farm and turbine, CSV and Excel export and data retention for comparison in future campaigns.



100%

of the blade covered

< 45 min

downtime per turbine

1 week

to the report

CSV · Excel

export from the portal



SAFETY AND MANAGEMENT SYSTEM

Working at height with judgement: training, PPE and document control

People's safety and work quality go together. We operate an integrated quality, safety and environmental management system and an integrated policy that applies to every project, in Spain and in Latin America.

GWO-trained technicians

Global Wind Organisation training and qualified rope access technicians for rope work.

Full PPE and inspected equipment

Helmet, harness, vest and inspected descent and rescue equipment; certification of lifelines, anchor points and service lifts.

HSE and coordination

HSE supervision on site, contractor coordination, permits to work and OEM and wind farm procedures.

Document control

Per-turbine records: punch list, photographic evidence, reports and handover certificates, available to the client.

Environment

Waste and product management on site in line with the integrated policy.

Drone operator

Planned and documented drone operations; official Yuneec distributor.



Technician in helmet and full PPE at a wind farm

YUNEEC DRONES AND CLIENT PORTAL

Equipment, training and access to your information

● Official Yuneec distributor

Sale of drones, inspection bundles and training courses for maintenance teams that want to operate their own drones. It is the only part of our offer with published prices, in the shop at greenworktechnology.com.

● Client portal

Web access to inspection reports, the documentation of each job and the follow-up of the work on your wind farm.

HOW TO HIRE US

From first contact to a tailored proposal in 7-10 days

We do not publish service rates: every wind farm, technology and scope is different. What is fixed is the method.

1

Contact

Tell us the wind farm, technology, number of turbines and what you need. Response within 1 working hour and an initial proposal within 24 working hours.

2

Free site visit

Visit to the wind farm, factory or port and free diagnosis to define the real scope.

3

Proposal in 7-10 days

Scope per turbine or component, schedule, resources, deliverables and, where relevant, target availability and a 3-month pilot plan.

4

Execution

GWO-trained technicians, HSE supervision, document control and communication with the wind farm or site manager.

5

Handover and follow-up

Report, punch list or handover certificate; data retained for future campaigns and 24/7 on-call service on contracted wind farms.

Shall we talk about your wind farm?

Write or call us with the technology, the number of turbines and what you need. We answer with specific questions, not with a catalogue.

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Wind turbine assembly by crane

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Guanillo · Dominican Republic

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