CES 2027 · EUREKA PARK · ENERGY

PATENT PCT/KR2023/019844
ICOSAHEDRAL VAWT GEOMETRY

WIND INFRASTRUCTURE THAT PACKS INTO A CASE

GW1800 AIR

Deploys like an air tent. Generates like a wind turbine.

Development-stage product. Imagery shown is a pre-production concept rendering; colors and dimensions are subject to change ahead of the January 2027 target market date.

<60 kg	<10 min	$8,500	JAN 2027
TARGET WEIGHT, PACKED	INFLATION TIME	TARGET PRICE	TARGET MARKET

Wind Infrastructure That Packs Into a Case

The GW1800 Air takes GeoWind's patented icosahedral geometry and rebuilds it as a pneumatic structure — engineered for sites where a crane, a foundation, and a construction schedule are not an option.

The entire turbine folds into a single portable case. On site, it inflates into GeoWind's full icosahedral frame using air-tent grade materials — the same class of fabric built to hold structural shape under continuous outdoor load. Once expanded, the frame can be left pneumatic for temporary deployments, or rigidified for permanent installations using resin injection or elastic rod reinforcement. The generator activates as soon as the frame reaches full expansion, and climate-sensor streaming begins from first spin.

01	**PACK**	Full system folds flat into a single portable case — no tools, no crane.
02	**INFLATE**	Air pressurizes the frame; the icosahedral geometry takes shape from the base up.
03	**RIGIDIFY**	Optional resin injection or elastic-rod reinforcement locks the frame for permanent use.
04	**GENERATE**	Generator and climate sensors activate the moment the frame reaches full expansion.

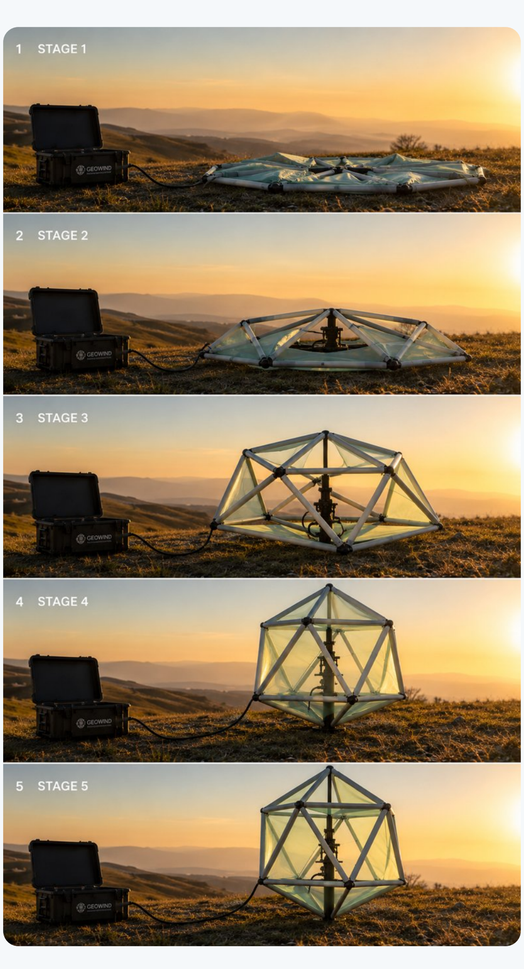

FIG. 1 — DEPLOYMENT SEQUENCE, STAGE 1–5 (CONCEPT RENDERING)

EVERY UNIT IS A CLIMATE NODE

Beyond power, the GW1800 Air streams hyper-local wind, temperature, humidity, and air-quality data the

Specifications

Pre-production targets for the GW1800 Air. Final certified performance figures will be published following field testing ahead of the January 2027 launch.

PLATFORM	Icosahedral VAWT — pneumatic frame variant (GW1800 series)
WEIGHT	Target: under 132 lbs / 60 kg, packed (pre-production target)
FRAME MATERIAL	Air-tent grade structural fabric
WIND PERFORMANCE	Optimized for low-wind urban environments
DEPLOYMENT	Portable case → full inflation <10 min
RIGIDIFICATION	Resin injection or elastic-rod reinforcement
SENSING	Wind / temperature / humidity / air-quality node
INSTALLATION	No crane, no foundation, no external wiring
PATENT	PCT/KR2023/019844 — 8 jurisdictions
TARGET PRICE	USD $8,500
TARGET MARKET	January 2027
CATEGORY	Energy — Urban Wind Infrastructure

FIG. 2 — FULLY INFLATED FRAME, CLOSE DETAIL (CONCEPT RENDERING)

WHY IT MATTERS

- ✓ Disaster Relief
- ✓ Humanitarian Missions
- ✓ Mining & Remote Industry
- ✓ Research Stations
- ✓ Off-Grid Construction Sites

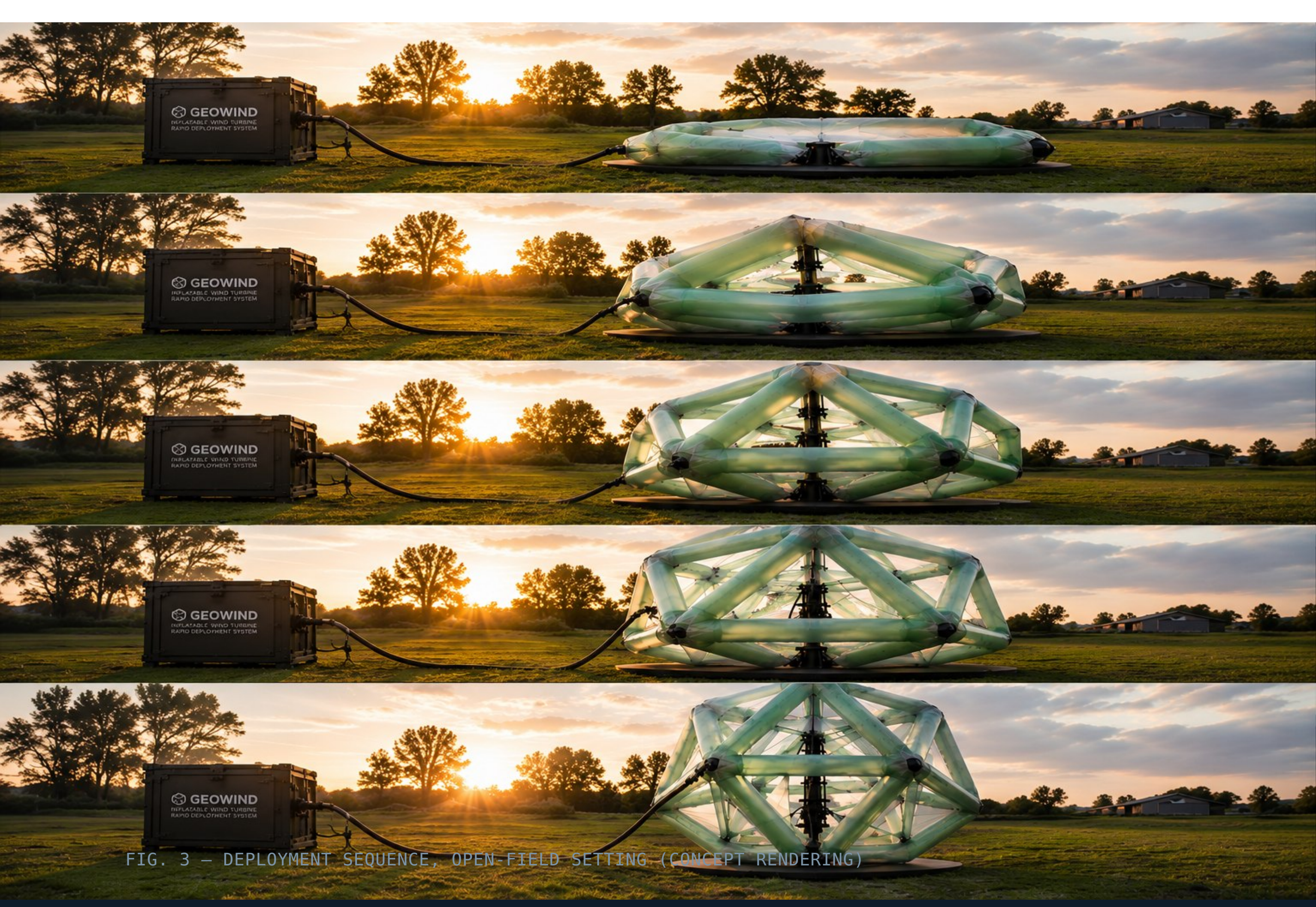

FIG. 3 — DEPLOYMENT SEQUENCE, OPEN-FIELD SETTING (CONCEPT RENDERING)

BUILT FOR ANY OPEN SITE

One Deployment Sequence, Any Environment

<60 kg packed · Two-person deployment. No crane. No foundation.

The same pack–inflate–rigidify–generate sequence shown on the previous page holds regardless of terrain or season. This concept rendering shows the GW1800 Air deploying in an open grassland setting, from flat-packed case to fully rigidified icosahedral frame — the structure locks into shape using the same resin-injection or elastic-rod reinforcement described in the specifications.

Because deployment requires no crane, no foundation, and no site preparation, the GW1800 Air is designed to reach locations GeoWind's fixed-frame models cannot — while sharing the same patented icosahedral geometry validated across the product line.

NO SITE PREP
Deploys directly on grass, gravel, or paved ground.

SAME GEOMETRY
Identical icosahedral frame across every GeoWind model.

REVERSIBLE
Left pneumatic for temporary use, or rigidified for permanent siting.

TRANSPORT
Packs down to fit in a single pickup truck bed — target weight under 60 kg (132 lbs), pre-production estimate.

Independently Validated

GeoWind's icosahedral platform — the geometry shared by every model, including the GW1800 Air — has been recognized by two of the industry's most selective juries.

CES 2026 Innovation Award

Sustainability & Energy Transition category, awarded to GeoWind's icosahedral VAWT platform.

iF Design Award 2026

Recognized for urban installation viability of the icosahedral frame design.

Granted PCT Patent

PCT/KR2023/019844, covering 8 jurisdictions across the entire GeoWind product line.

Academic Validation

Icosahedral VAWT aerodynamics documented across three peer-reviewed / preprint works.

WHY GW1800 AIR MATTERS

Instead of bringing infrastructure to the site, GeoWind brings the site to the infrastructure.

Deploy anywhere. Generate immediately. Collect climate data from day one.

GEOWIND

BUILDING THE WORLD'S GRASSROOTS CLIMATE GRID

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