Bry-Air® years of excellence

dry facts

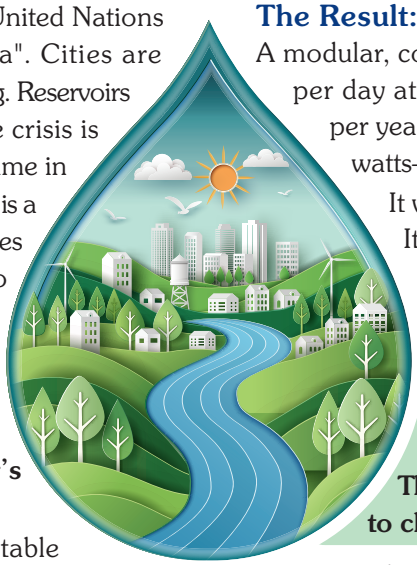
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Creating Water Where the World Needs It Most

Reliability, Reimagined for a Water Uncertain World



The world has entered what the United Nations now calls a "water-bankrupt era". Cities are running dry. Aquifers are depleting. Reservoirs are shrinking. The scale of the crisis is unprecedented. And for the first time in history, "where will tomorrow's water come from" is a question being asked by governments, industries and communities alike - from Cape Town to Kabul, from São Paulo to the semiconductor fabs of Arizona.



Bry-Air has the answer - 62 years of adsorption science experience.

Engineering Water Independence: Bry-Air's Pioneering Achievement

Bry-Air's Air Water Generator produces potable water directly from ambient air.

No pipeline	No borewell	No tanker
		

Turning air into water. Anywhere, any climate, any scale.

At its heart is a desiccant rotor - the same adsorption chemistry Bry-Air has mastered over 6 decades, now engineered for a new mission.

The Result:

A modular, containerised system that scales from 55 litres per day at commercial scale to nearly 14 million litres per year at industrial capacity, powered by the lowest watts-per-litre performance in its class.

It works in arid regions. It works in low humidity. It runs continuously, unattended - with a rotor engineered for a decade of service without replacement.

72% of the global population - 5.52 billion people - live in water - insecure settings. The Bry-Air AWG is engineered to change that.

Did You Know?

Across industries. Across geographies.

One answer to the water question of our time. From off-grid resorts and remote industrial sites to pharmaceutical process water, agricultural irrigation, defence forward-areas, disaster relief camps, and of course data centres.

The AWG is redefining how the world's most demanding operations secure their water future.

From Air to Water. From Bry-Air, to the World

55 litres/day
20,075 litres/year



1,000 litres/day
365,000 litres/year



1,600 litres/hour
13,778,899 litres/year



The Value of Readiness



When Maintenance Begins, Protection Becomes the Priority

Every turbine deserves a rest. Periodic maintenance, inspections, and overhaul activities are the heartbeat of reliable power generation-planned windows to inspect, restore, and return equipment to peak condition. During these intervals, turbines remain idle for days, weeks, or longer. And while engineers focus on performance restoration, the environment around the equipment continues to evolve. Idle time doesn't mean inactive time. Moisture remains a constant, active threat for as long as the turbine sits still.

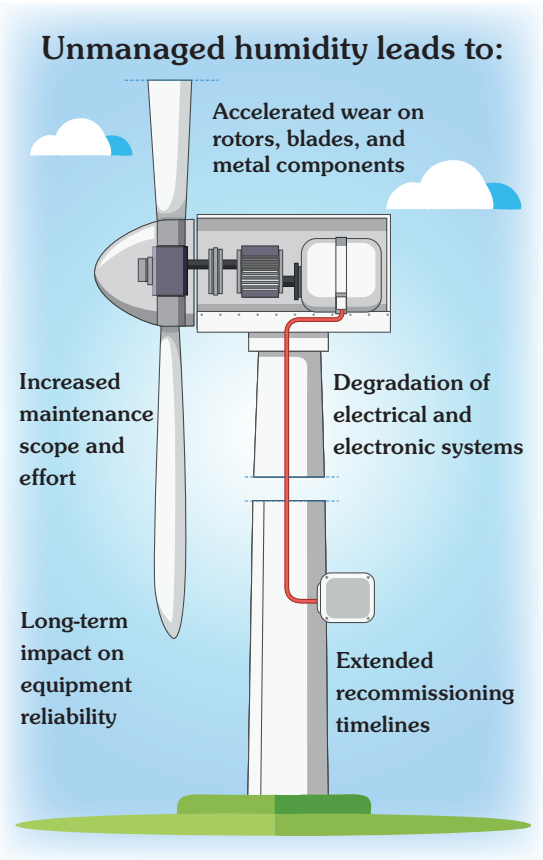
The Silent Variable During Idle Periods

A turbine at rest is still surrounded by a living, breathing environment. As equipment cools and opens up, humidity finds its way into turbine casings, generators, condensers, and associated systems-quietly settling onto internal surfaces and setting the stage for corrosion and material deterioration.

The Cost of Unmanaged Downtime

Every idle day carries a price. Capacity commitments, revenue targets, and grid obligations do not pause when a turbine goes offline. If moisture damage extends the outage, that cost compounds-turning planned expenditure into unplanned crisis. The ROI case is straightforward: a humidity - controlled idle period protects the asset, compresses recommissioning time, and eliminates the secondary damage that no maintenance budget accounts for.

Protecting the turbine during downtime is not an added cost. It is the lowest-cost decision in the maintenance window.



Why Maintenance Windows Matter?

A successful shutdown is about far more than inspection and repair - it is about preserving asset condition throughout. The longer equipment remains idle, the greater the opportunity for humidity to influence critical surfaces.

Protecting assets during this window ensures turbines return to service in exactly the condition they were designed to deliver. Every additional day offline is not just a delay - it is measurable revenue at risk.

DID YOU KNOW?

Turbine blade failure starts while parked - not running. Pitting, stress corrosion cracking and corrosion fatigue begin during moist layups -not operation. Salt deposits attract moisture, deepening damage with every unprotected outage.

Guidance: dehumidify within three days of shutdown.

Perfect chemistry can't protect a turbine left exposed while idle.

Environmental Control as a Core Maintenance Strategy

Modern maintenance planning places the surrounding environment at the centre of asset protection. Humidity control and drying solutions reduce moisture-related risks across inspection shutdowns, overhaul activities, and extended servicing periods.

This is where Bry-Air's expertise in dehumidification and Technical Drying Services' on-site environmental control solutions come together.

Bry-Air brings proven dry-air technology. TDS delivers temporary humidity-control and drying solutions tailored to planned outages-together creating controlled conditions that support faster readiness and operational confidence when turbines return to service.



When MOISTURE® is Torture

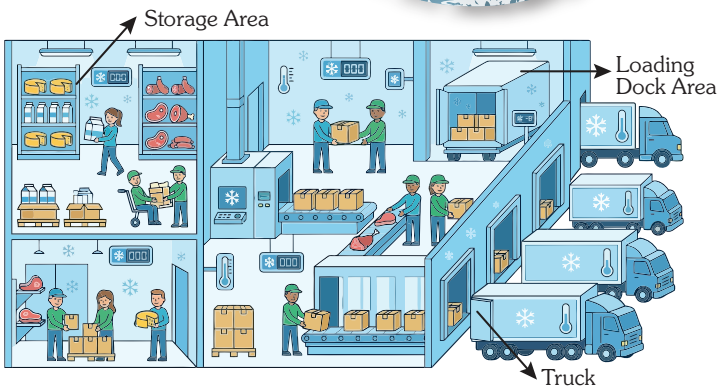
In this column, we share our experience of major application areas where usage of dehumidification is both extensive and essential.







Fog, Frost & Falls: The Hidden Story Inside Every Cold Store



Step into an active cold store and everything looks under control - shelves stacked, temperature holding, product moving. But behind that calm, something invisible is quietly working against the operation: moisture.

Every time a door swings open, every dock cycle, every worker stepping in from the warm outside - humid air rushes in. And once it's inside, the trouble begins.

Why Cold Alone Isn't Enough

Refrigeration was built to manage temperature, not humidity. When warm, damp air meets cold surfaces, it condenses on the spot - showing up as fog near entrances, damp patches on packaging, and slick films on floors. A quick door opening quietly turns into hours of hidden cost.

Four Silent Costs of Moisture

- Slippery floors near entry points create real safety risks for workers and forklifts.
- Ice on evaporator coils forces refrigeration systems to work harder, quietly running up energy bills.
- Weakened packaging - cartons lose strength in damp conditions, stacks collapse, product gets damaged.
- Produce that fades faster - fruits and vegetables lose weight, freshness, and shelf life when the air isn't right.

Strip curtains, auto-closing doors, and spot fixes help slow the air - but they don't stop moisture from getting in.

Meet Your Moisture Hero: Bry-Air

Bry-Air desiccant dehumidification systems are engineered for the sub-zero world of active cold storage. They pull moisture out of the air before it can reach the coil, the floor, or the product.

- Fog clears
- Floors stay dry
- Coils stay clean
- Packaging holds
- Produce stays fresh
- Lower energy bills



Enter Bry-Air... exit moisture™

Looking Back at the Events and Milestones That Defined Our Journey

Pharmatech & Labtech Expo 2026, Chandigarh



India Energy Storage Week (IESW) 2026, New Delhi





Arab Pharma MFG Expo 2026, Amman, Jordan



Chennai Cloud and Data Center Convention 2026, Chennai



Bry-Air Day 2026, Gurugram

PAHWA GROUP Innovation is life | Bry-Air | DRI® | delair® | TDS®

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