

REVOLUTIONIZING CANNABIS CULTIVATION WITH RENEWABLE POWERED NANOBUBBLE TECHNOLOGY



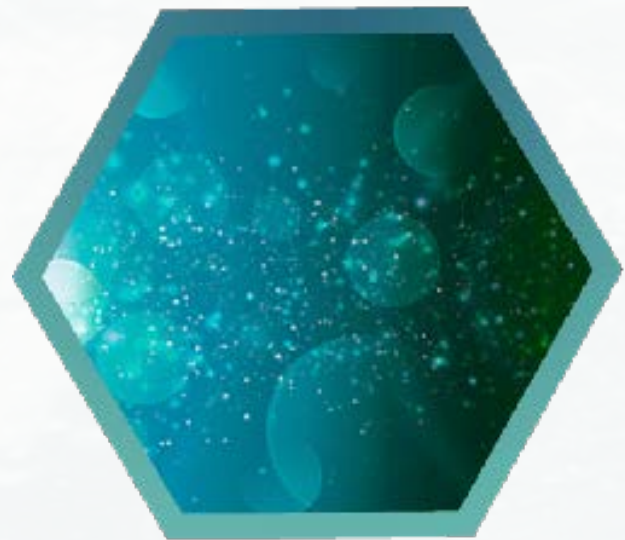
KAIROSPACE
TECHNOLOGIES

We maximize nature's performance



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PARTNER WITH KAIROSPACE TO BOOST YOUR OPERATION



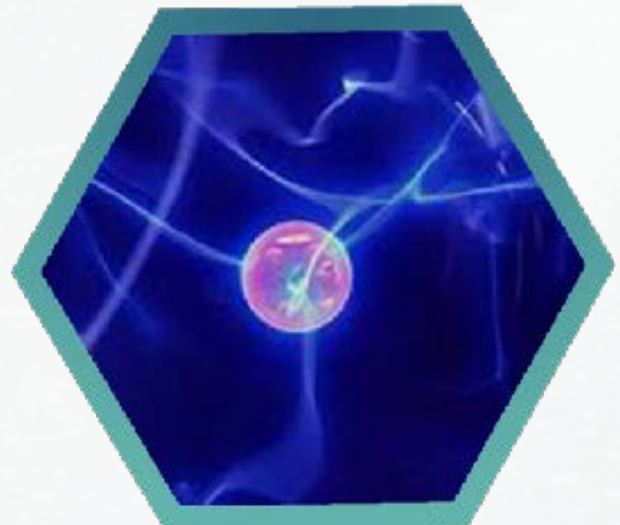
ULTRA FINE BUBBLES

- High-efficiency liquid-gas mixing for multiple applications



WATER CONDITIONING

- Improvement of carrying capacity of salts
- Reducing surface tension



ADVANCED OXIDATION PROCESS

- Recovery of wastewater



APPLICATIONS

- Boost Crops Yields
- Optimize Inputs Usage
- Pest Control
- Generate Disinfectant Solution
- Clean Pipes and Emitters
- Boost or Control Microbial Activity
- Control pH
- Wastewater Treatment and Recycling



WHAT TO EXPECT



CANNABIS CULTIVATION



Precision Auto Dissolved
Oxygen control



Beta Testing Locations
Humboldt, CA
Las Vegas, NV

WATER AERATION



Auto Dissolved
Oxygen control



+1 year in service

ENHANCING PLANT GROWTH AND QUALITY



+35%
Fresh Weight



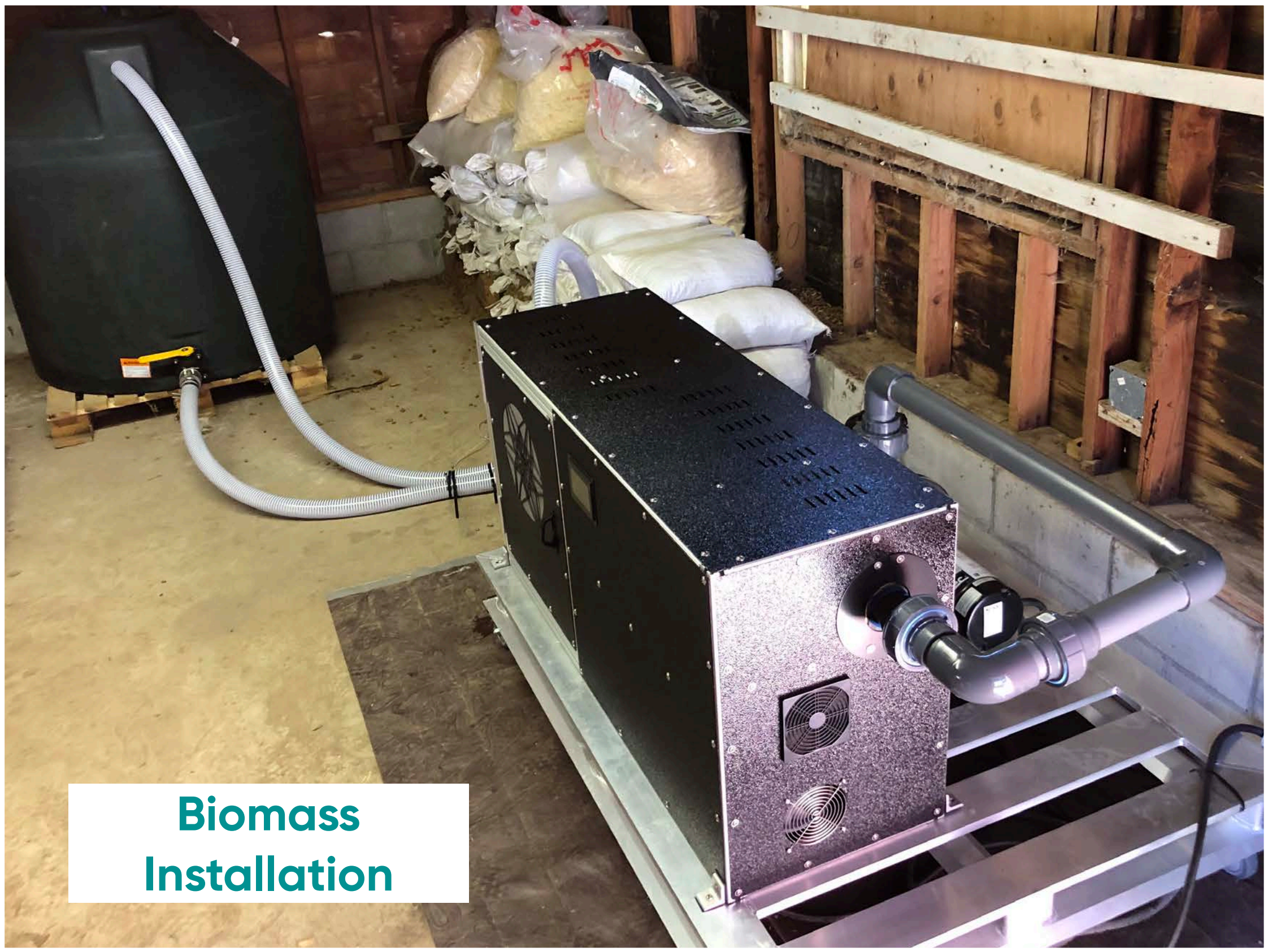
-10%
Time to Harvest



+15%
BRIX Levels

**More crispy
texture**

PROMOTING ROOT DEVELOPMENT, SEQUESTERING MORE CARBON, AND IMPROVING SOIL CONDITION



**Biomass
Installation**

2X
Root Development



Control

Up to +43%
Plant Size



Kairospace Treated

ENHANCING WATER PENETRATION, REDUCING SALT COMPACTION, IMPROVING SOIL AERATION



Golf Course Installation



Control



Kairoospace Treated

+24%
Water Penetration

35%
Reduction Compacted Salts

WASTEWATER PROCESSING



Experimental Results on N-NH₃ Destruction Using AOP



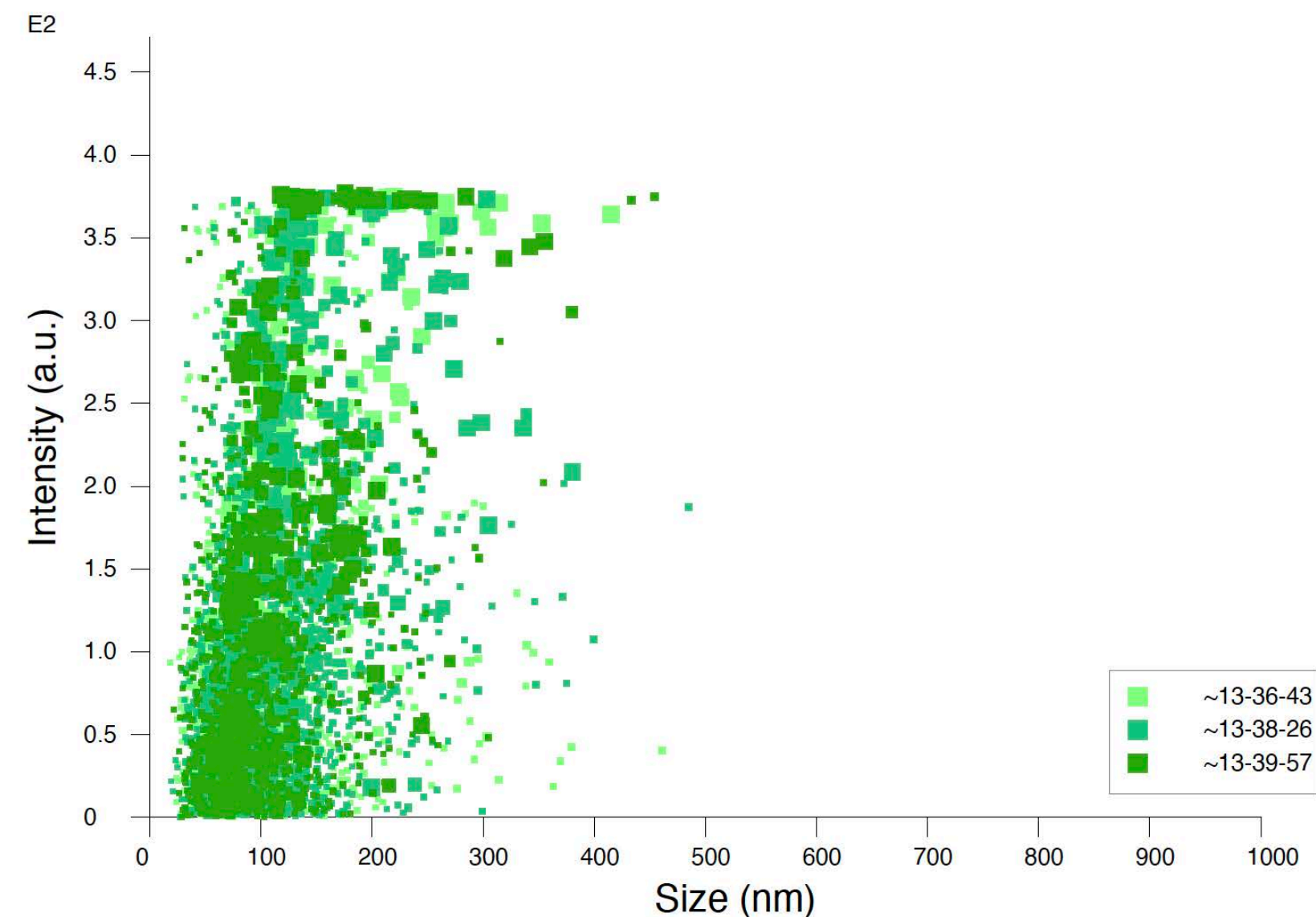
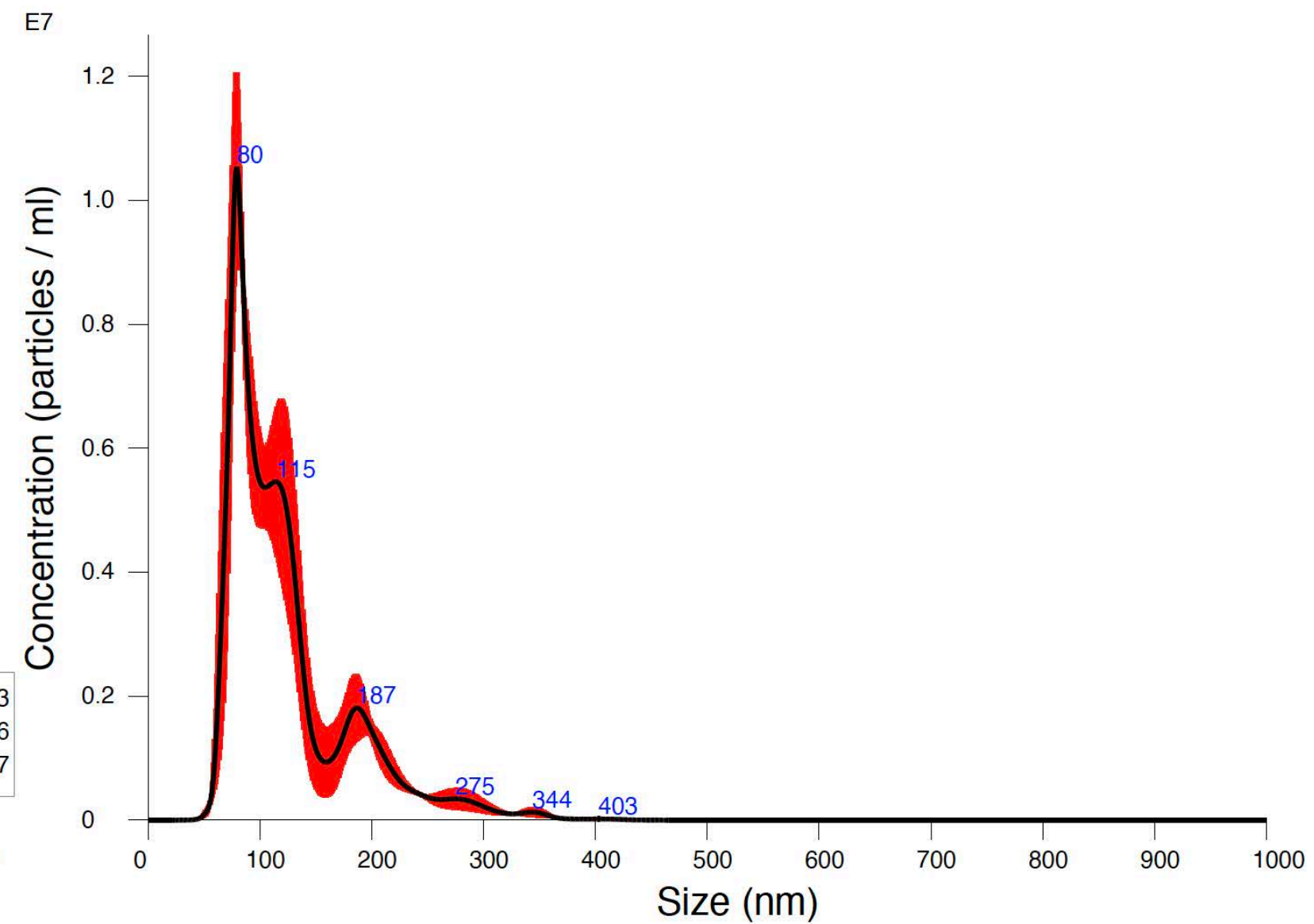
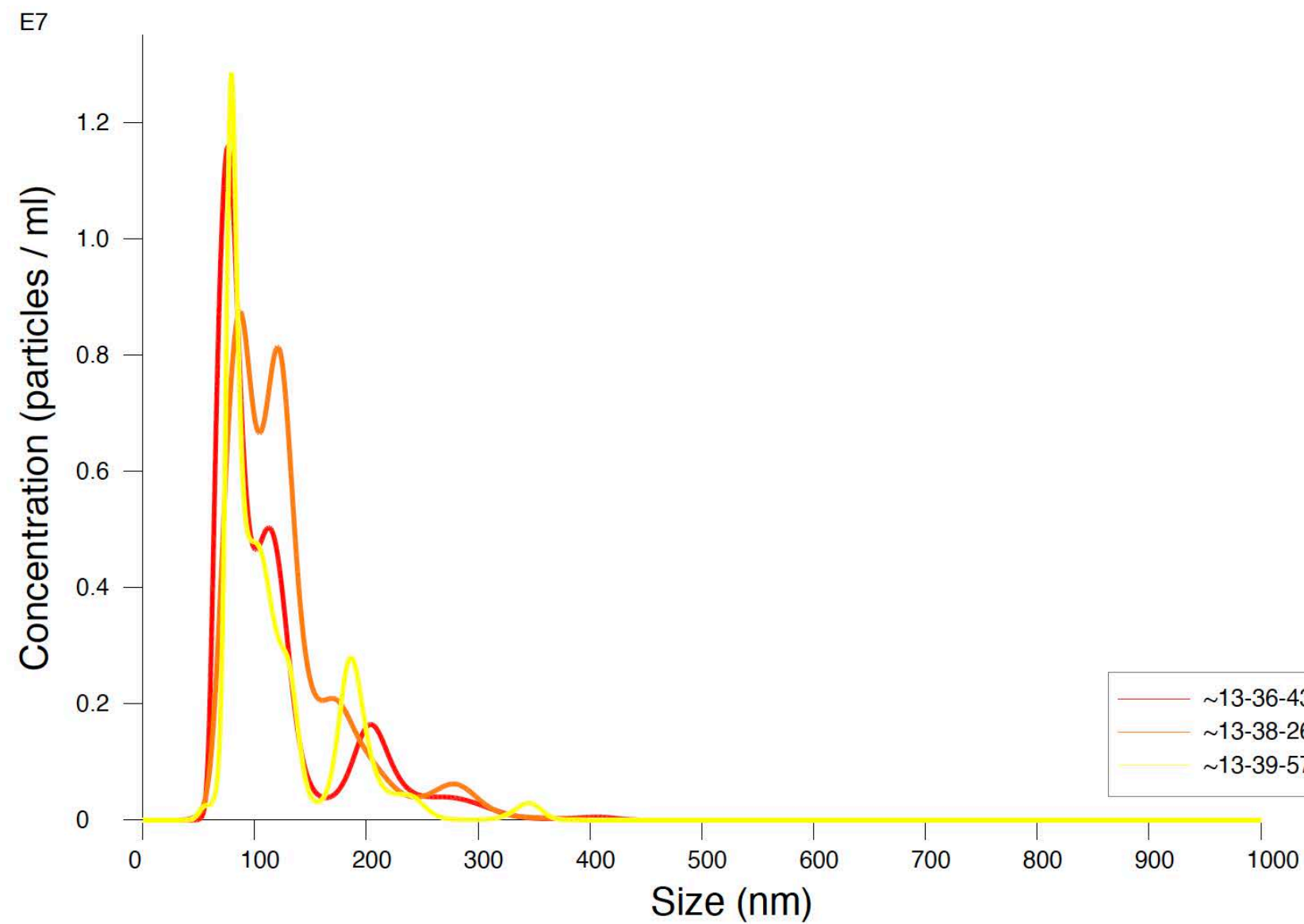
February 2nd, 2022

PHASE 2 of Validation
starting on Q1 2024

100%
Removal of Ammonia

Validated by:





Stats: Merged Data

Mean: 122.9 nm

Mode: 79.4 nm

SD: 55.7 nm

D10: 74.0 nm

D50: 106.4 nm

D90: 201.3 nm

Stats:

Mean +/- Standard Error

Mean: 122.6 +/- 2.7 nm

Mode: 80.9 +/- 3.2 nm

SD: 55.6 +/- 2.2 nm

D10: 74.6 +/- 2.6 nm

D50: 104.8 +/- 5.6 nm

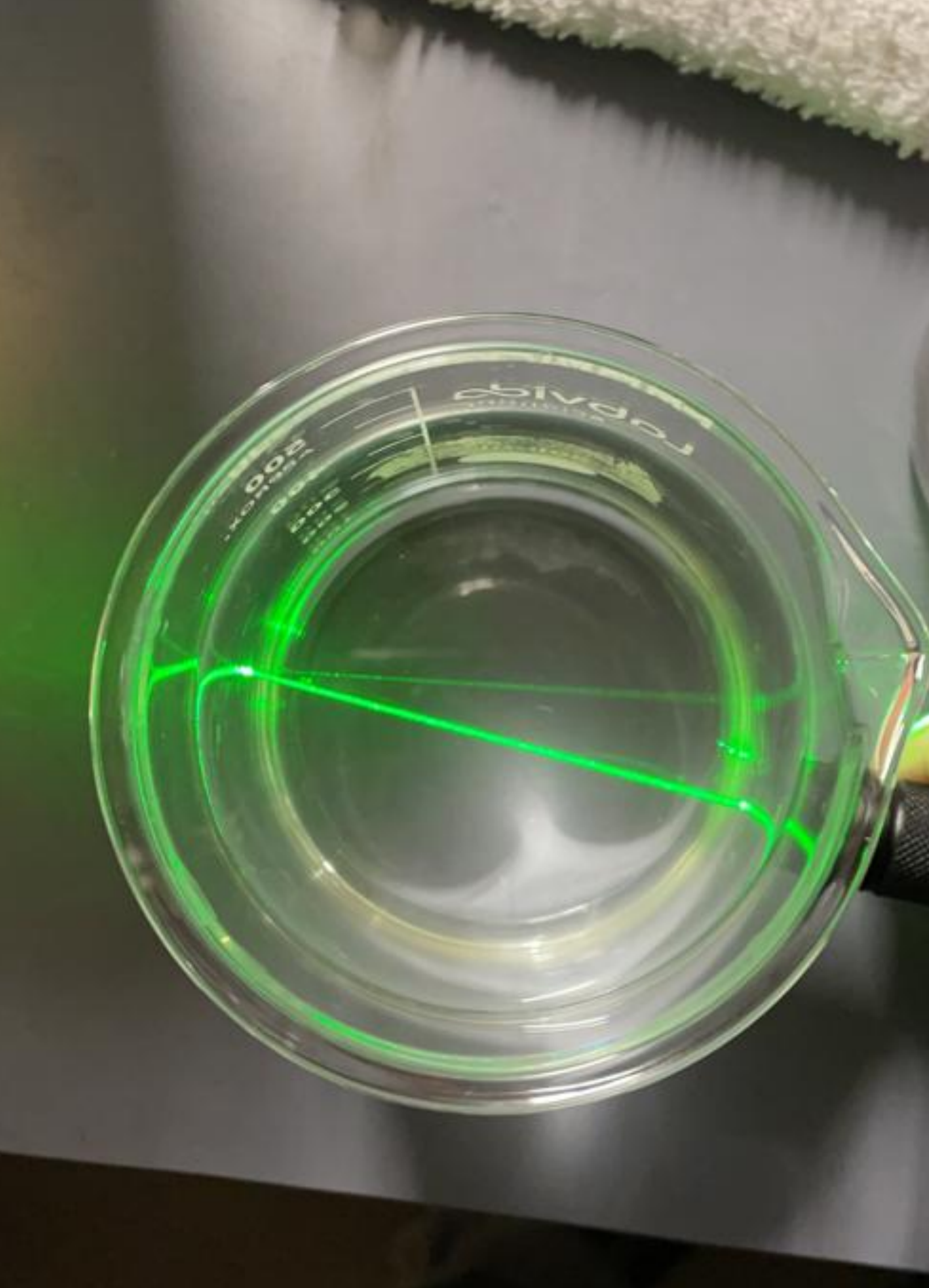
D90: 201.0 +/- 4.9 nm

Concentration:

6.00e+08 +/- 6.58e+07 particles/ml

32.8 +/- 3.6 particles/frame

43.5 +/- 4.2 centres/frame



RESULTS AT A GLANCE

600,000,000 nano bubbles per ml

79-122 nanometers in size

79 nm (most common bubble size)

122 nm (mean average bubble size)

[Click for full report](#)

KAIROSPACE SUITE OF SOLUTIONS

•Treatment Capacity from 20 to 1000 GPM



KST VortexInjectors

Indoor and Outdoor Agriculture
Wastewater Treatment
Lake and Ponds
Cooling towers



KST
AGPACKS

Indoor Agriculture
Research
Lake and ponds



KST
Tailor Made

Indoor and Outdoor Agriculture
Wastewater Treatment
Lake and Ponds
Cooling towers
Mining

AGPACK

YOUR BEST WATER SYSTEM

- Equipped with an oxygen concentrator and ozone generator for high-efficiency liquid-gas mixing and delivery.
- Equipped with aux gas port for connecting external gas injection sources (ie: CO₂, H₂, Atmospheric air/gas) for controlling pH, DO, and ORP levels with precision.



AGPACK

TECHNICAL SPECS

- Treatment Capacity 40-160 GPM
- Boost DO Levels up to 4X on a single pass
- Production of nanobubbles validated by
- Arizona State University



AGPACK

TECHNICAL SPECS

- Digitally integrated automation, telemetric and sensor controls, for monitoring dissolved oxygen levels in real-time.
- Adjustable DO supersaturation settings to promote precision conditioned water treatment



A wide-angle photograph of a lush green hemp field stretching to the horizon. The plants are densely packed and appear to be in the flowering stage. In the background, a line of trees is visible against a sky filled with soft, white and grey clouds. The overall scene is bright and natural.

**BECOME A SUSTAINABILITY CHAMPION BY
BOOSTING YOUR GROW OPERATIONS WITH SOLAR
POWERED WATER TREATMENT**

BEST IN CLASS SOLAR POWER TACTICAL WATER PURIFICATION UNITS

KAIROSPACE HAS ENTERED INTO A JV
WITH WATCHDOG EQUIPMENT FOR THE
PRODUCTION OF SOLAR POWERED
WATER TREATMENT SYSTEMS



KAIROSPACE
TECHNOLOGIES



SOLAR POWERED TACTICAL UNITS

Watchdog and KAIROSPACE offer the most durable, versatile, reliable, and scalable custom mobile solar platforms available.

Base unit includes:

- 2,200 watts of solar generation
- 17.5 KwH LifePO4 Battery with BMS
- Remote control performance monitoring
- On-site WiFi
- Ruggedized 14 Gauge Steel Cabinet Construction
- Polyurea armor coated trailer
- Full size 15' wheels with premium 32" All-Terrain Truck Tires
- Disk Brakes





CUSTOMIZATION

WATCHDOG can engineer and integrate a wide variety of custom solutions to meet our clients needs.



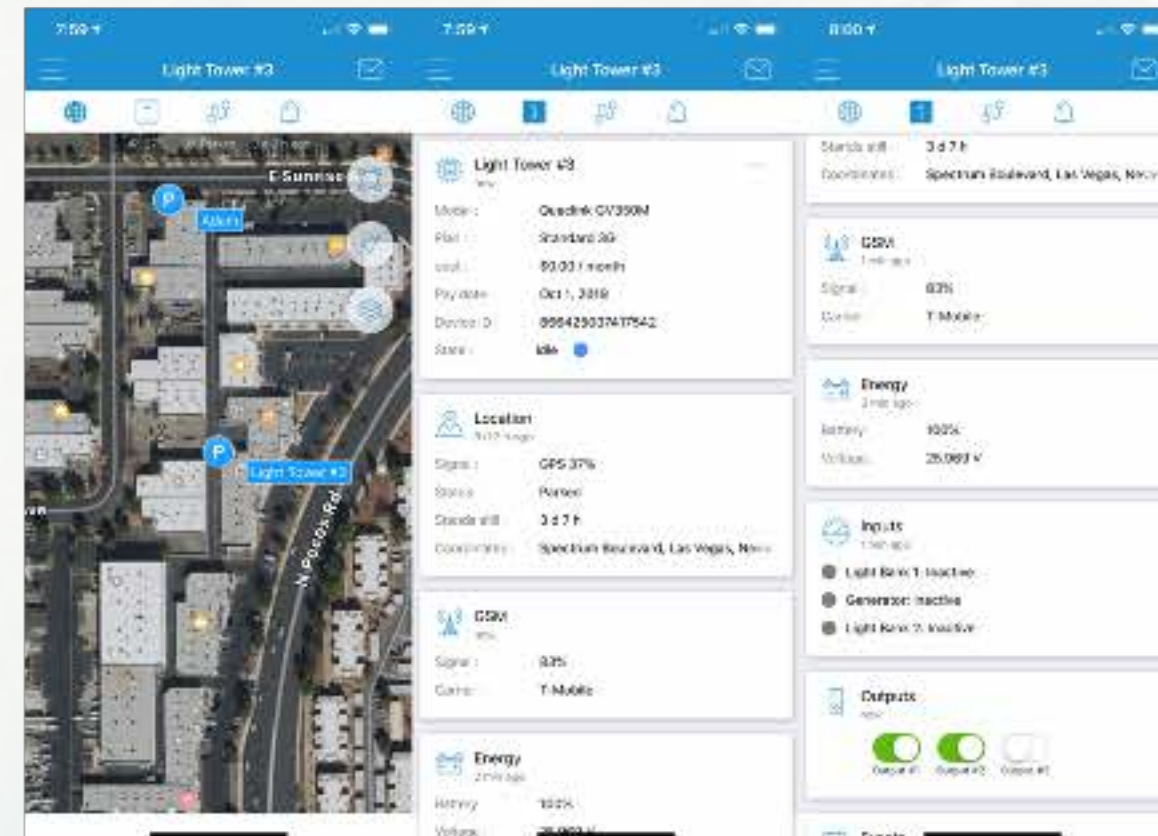
14 Ga Steel Custom Color Powder Coated Cabinets



Expandable Power



400W & 600W
Wind Turbines



GPS & Cellular
Remote Monitoring
& Control



Surveillance &
Communications



DURABILITY/CONSTRUCTION



Polyurea Coated Trailer



Folding Tow Bar



30' Hydraulic Mast



Steel Fork Pockets:
Full length of trailer for easy loading, unloading, and added trailer strength



Surge Disc Brakes & Set Brake



Quick Deploy Stabilizers



15" Rims & Premium AT Tires



SAFETY



- 1. Zero-emission and noise-free lighting keep worksites clean and safe**
- 2. Lighting options provide high nighttime visibility**
- 3. Hydraulic Mast eliminates safety hazards of hand crank masts.**
- 4. Surge disc brakes and set brake**
- 5. Outriggers that stabilize the unit up to 80 m.p.h. winds**
- 6. Heavy duty tethered wheel chocks and chock holders**
- 7. 15" Premium Off Road Tires**



SECURITY



- 1. Remote monitoring & control options**
- 2. GPS Tracking options**
- 3. Motion activated and tracking camera options**
- 4. Motion activated lighting**
- 5. Two-way audio options**
- 6. Folding tow bar for theft prevention**



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