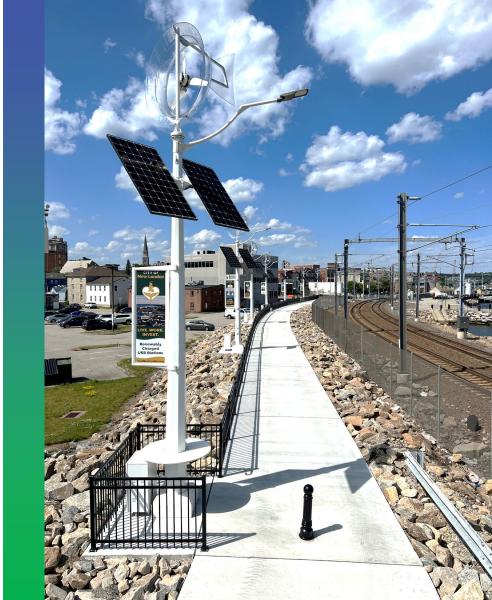
Aris Wind's Smart Pole

Off-grid solution for lighting, security, and auxiliary power







Product Snapshot







Hybrid Solar and Wind Powered

Completely off-grid power for lighting and additional auxiliary power loads



100% Renewable Clean Energy



Highly visible Sustainability Branding

Shows commitment to sustainability and grid resiliency goals



No Underground Trenching/Wiring Required

Reduces any risks during the installation process

Auxiliary Power Applications



Security Equipment



USB Charging



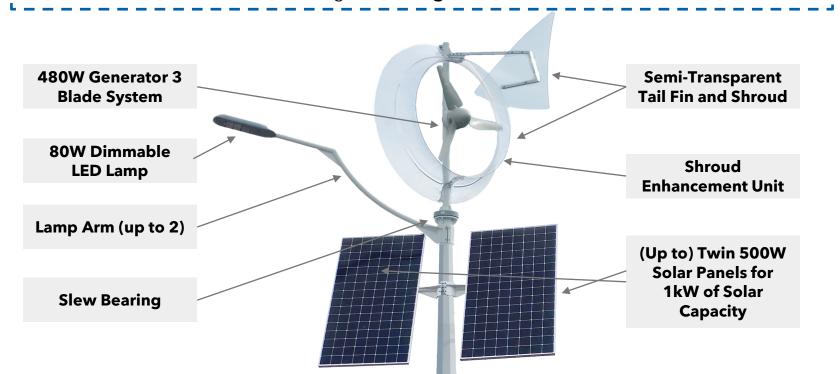
4G Router

Key Features



Off-grid sustainable exterior lighting solution with an enhanced wind turbine, solar PV panel, battery storage, and smart controls

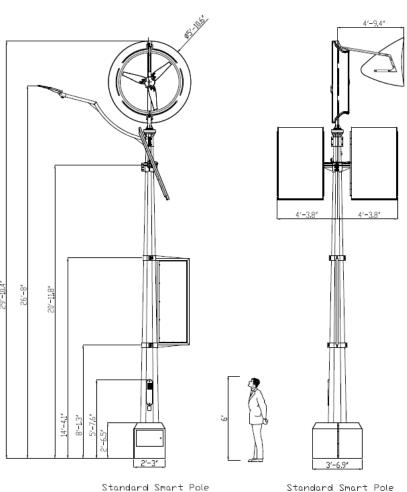
- Wind and solar hybrid powered unit captures year-round wind and solar energy
- Transparent shroud feature increases wind power output, catches low velocity wind
 - Battery storage for up to 3-5 days energy demand
 - Integral dimming feature control



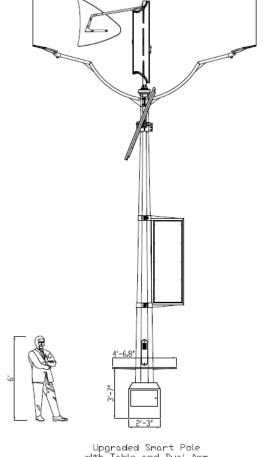
General Specifications (30' Tall Unit)







Right Side



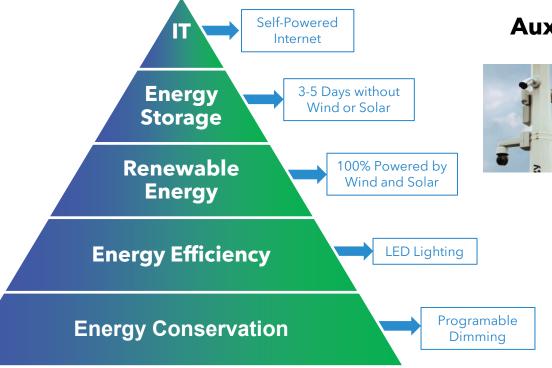
15'-11.8"

Standard Smart Pole Back Side

with Table and Dual Arm

Proprietary Charge Controller Manages the Smart Pole Energy Pyramid and Enables Internet Connectivity





Auxiliary Power Applications







Coming soon...

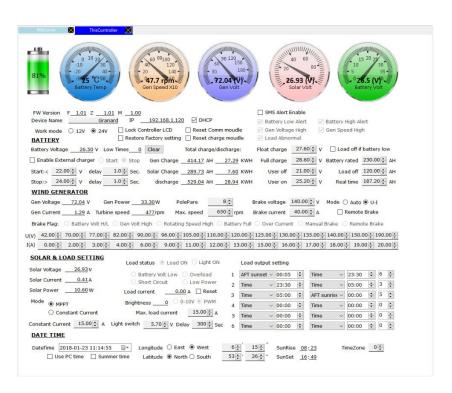
Sensors - weather, air quality, traffic, noise

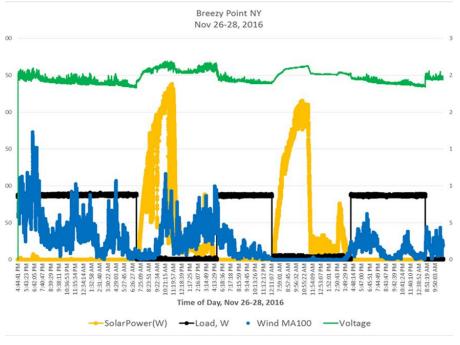


Get Access to Real Time Data



Cloud platform provides real-time data and historical trend analysis for use in STEM programs, where schools have a real-world application in their backyard to educate children about renewable energy





Improve Safety and Security



The Smart Pole's auxiliary power can be used for security applications that improve the safety of the school and community



Security Cameras & Remote Monitoring

Improve security by retrofitting the Smart Pole with a third-party security camera*



Resilient Power = Always on Light

The Smart Pole will stay on even if the grid goes down



Muster Station in Emergency Situations

A source of light where staff and visitors can assemble during a power outage, with USB stations available for cell phone charging



Smart Poles at Increase Miller Elementary School (Katonah, NY)









Camera and Wireless Telecom Components Details



Branding and Advertising Opportunity







Showcase your organization's commitment to the transition to green energy with the Smart Pole's highly visible banner!



Illinois Institute of Technology

Chicago, Illinois

Aris Wind's Smart Poles perfectly fit the customer's commitment toward reducing carbon emissions while giving it recognition for all its efforts in going green



Battery Enclosure Options

Above ground enclosures put the batteries above the flood line to prevent water damage and **prolong battery life**



Skirt Enclosure

Updated design enables the batteries to be stored in the Smart Pole's NEMA3R skirt for a sleek design while protecting it from environmental wear and tear



Above Ground Enclosure

NEMA3R,
Powder-coated
aluminum,
surface
mounted,
padlockable
and vented, can
be configured
to provide ~36"
of flooding
protection





Tilt-up Installation

- Requires 30' laydown area
- Typically 2 foundations dig/form/pour per day and 1-2 field assembly erections per day



Updated Investment Tax Credit Incentives



The Aris Wind Smart Pole is eligible for a 30% ITC based on its renewable energy generation and storage features

For Commercial Buyers

- Off-grid power for lighting, security cameras, telecom, and more
- For corporate campuses, muster stations, green branding

New ITC Aspects:

- Full 30% ITC now in place for 10 years
- 10% "bonus ITC" for targeted economic zones
- The balance of 60-70% "post ITC value" still eligible for accelerated depreciation (MACRS, Bonus Depreciation)

For Institutional Buyers

For schools, municipalities, hospitals

New ITC Aspects:

- Same ITC now available to non-profits, government, school buyers via the cash **Direct Pay** provision
- Non-profits do not benefit from depreciation like businesses above, <u>BUT</u> 3rd party ownership with asset leased to the non-profit entity can claim both ITC and depreciation.



Smart Pole equipped with security camera and telecom gear fully powered by off-grid wind and solar



Public-private partnership with NYC's Wolfe's Pond Park sponsored by TD Bank

Our Latest Projects



NYC Parks (Sponsored by TD Bank)

Wolfe's Pond Park, Staten Island





City of New London Rail Trail

New London, CT

Newark Schools Stadium

Newark, NJ





Kings County Hospital

Brooklyn, NY



Jacobi Medical Center

Bronx, NY

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