

DWEA 2026

*Breathing New Life Into Old Wind:  
Repowering with the NPS100C Wind  
Turbine*



---

Ken Kotalik  
[kkotalik@nps100.com](mailto:kkotalik@nps100.com)  
928.607.7034

# NPS 100C – Engineering, Manufacturing & Service



Engineered in  
Italy and the US

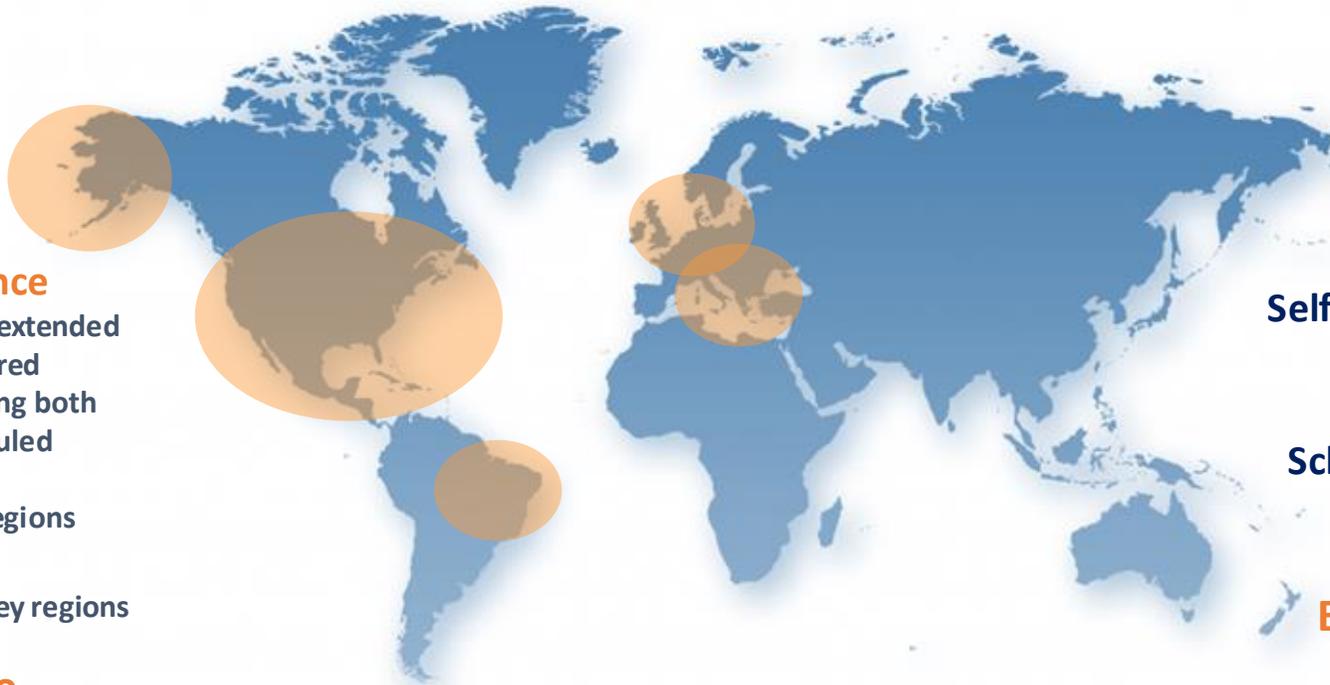
Installed & Serviced  
in Europe & North  
America

# Services and Global Footprint



## Installation & Service Offerings

- **Installation Service**
  - Global Installation and Commissioning Teams
- **Operation & Maintenance**
  - Standard warranty and extended warranty programs offered
  - Service contracts covering both scheduled and unscheduled maintenance
  - Parts Inventory in key regions
- **Regional Support**
  - Local service teams in key regions
- **900+ units worldwide**
- **84M+ operating hours**

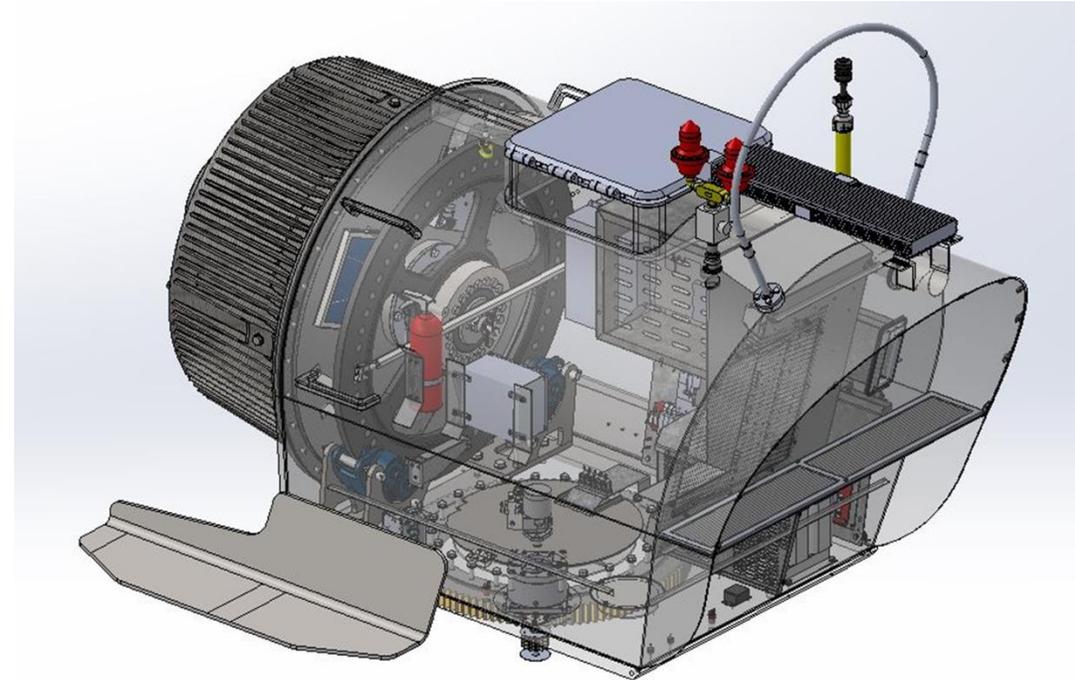


## Remote Monitoring & Maintenance

- **SmartView Platform 24/7/365**
- **Self-Support or Full Service options**
- **Scheduled & unscheduled Maintenance**
- **Extended Warranty & Availability Options**

# NPS 100C – turbine platform

- 95 kW rated power
- 3 Blade – Up-wind design – Active Yaw
- Permanent Magnet Direct Drive (PMDD), proven technology (no gearbox)
- Arctic package - 40° C
- Tropical package designed for Class I wind sites
- Rotor Diameter options: 21, 24, 27 meter
- Tower options: 21, 30, 37 meters (optimized for site conditions)
- **UL1741 SB Certified (Thank you NLR)**



# NPS 100C – Market Opportunities



- **EU, Canada, Caribbean (PR)**
- **State Incentives and Grants**
- **Off-Grid**
- **Private Funding**
- **Re-Powering: (NPS100A and B units – USA)**
- **Re-Powering other Orphans: (Fuhrlander, NEG Micon, Bonus)**



# NPS 100C – Repowering



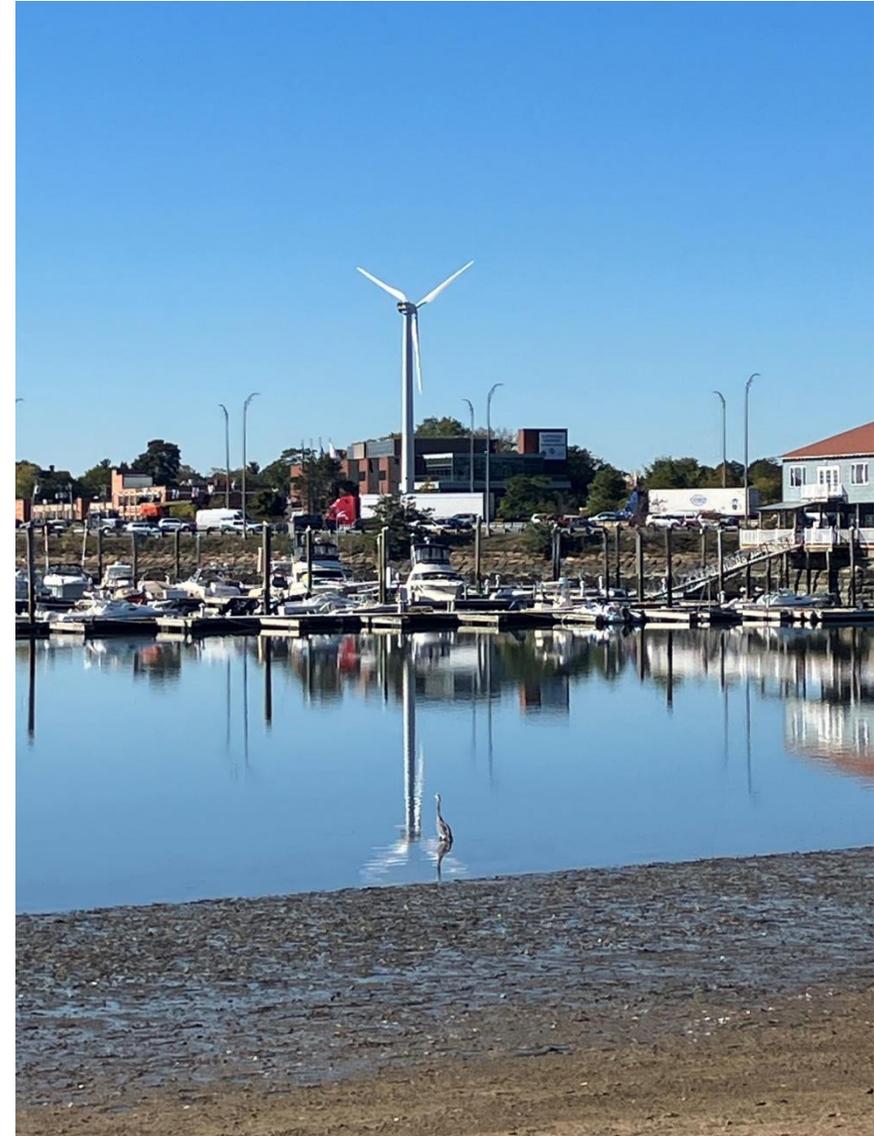
Customer:  
**IBEW – Boston, MA**  
Electrical Industry  
Training Center

Commissioned  
October 2025



# Site Details – Boston, MA

- Customer: International Brotherhood of Electrical Workers
- Local Elec. Subcontractor: Lighthouse Electrical Contracting, Inc.
- Replaced: Fuhrlander “Astos 100” 21 m rotor – 100 kW (Insolvency 2012 in Germany)
- Re-powered: NPS100C-24 m rotor – 95 kW
- Re-use of existing foundation/tower base section – redesigned tower top section – NPS custom design – same tip height
- Re-use existing feeder wire – replaced all other power electronics
- 99% Operational Availability since Oct 2025
- 4 days – removal, installation and commissioning
- **Now 1741 SB Certified!**
- Eliminates an ORPHAN Turbine (not spinning)



# Re-Powering with NPS 100C Advantages



- No Incentives to manage
- Cost Effective for customer – no new site development – better ROI
- Few Jurisdictional Issues
- Orphan turbine (non-spinning) replaced - a visual benefit for the community
- Simple Interconnection
- Upgraded 1741 SB – Better grid support for Utility
- Short Timeline for approval and install – a streamline process for permitting
- Best in class reliability
- Lower maintenance costs
- Extends project lifespan
- Supports the sustainability ethos utilizing existing infrastructure
- Increase AEP with new technology – larger rotor – more efficient blades, generator and controls

# When not to Re-Power - Decommissioning

- Poor Wind Resource
- AEP not attractive based on local electrical rates
- High Capital Cost & Poor ROI
- Extreme Site or Regulatory Restrictions
- Structural Limitations – damage, rust, fatigue
- Grid Capacity Limitations
- Customer Expectation or Appetite





**Northern**  
POWER SYSTEMS

# Thank you

---

For additional information please visit our  
website: [nps100.com](http://nps100.com)

[kkotalik@nps100.com](mailto:kkotalik@nps100.com)

[info@nps100.com](mailto:info@nps100.com)