COMPLETE WIND MEASUREMENT SYSTEMS

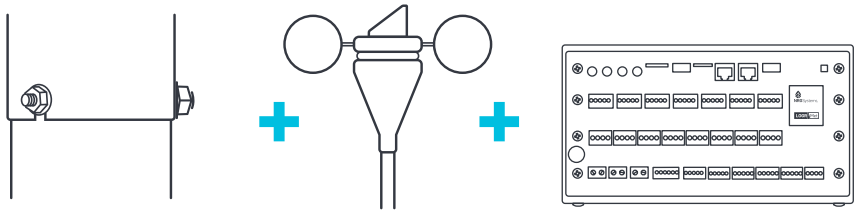
RESOURCE ASSESSMENT AND WIND PLANT OPTIMIZATION

NRG Systems®

COMPLETE WIND RESOURCE MEASUREMENT SYSTEMS

NRG Systems' fully integrated measurement systems are designed to perform reliably across diverse climates, terrains, and applications.

- Save time and reduce costs with a complete, ready-to-deploy system.
- Unrivaled ease of use via integrated, purpose-built components.
- Full suite of sensors available to support your preferred configuration.
- Streamline procurement and avoid logistical delays by sourcing equipment from a single provider.



TOWER SENSORS LOGGER

BANKABLE WIND DATA STARTS HERE

We encourage customers to bundle their towers with a data logger and sensors to create an integrated solution. This ensures that all system components arrive together, simplifying installation schedules and saving you time and money. We pioneered this complete system approach to wind measurement over 40 years ago. Since then, thousands of wind farms have been successfully financed using data gathered by our integrated systems.

WIND PLANT OPTIMIZATION

Our operational wind measurement and turbine monitoring solutions include meteorological tower-based systems as well as Lidar systems. These solutions are complemented by a range of data and hardware services that help streamline campaigns and provide the data you need to maximize the profitability of your projects.

NRG Systems®

IT'S ALL IN THERE

NRG's complete wind resource measurement systems are shipped in our innovative, compact **Envirocrate™** packaging for ease of transport and assembly with minimal waste on site.

"We have deployed NRG TallTowers across a range of challenging sites, and they were straightforward to install even in tough conditions. When one tower was struck by lightning, we were able to quickly replace the logger and sensors and continue collecting reliable data without major disruption, thanks to the system's intuitive design."

SHIN SUGIMOTO
GENERAL MANAGER,
INTER-DOMAIN

TOWER OPTIONS

Constructed of sturdy galvanized steel, NRG TallTowers are reliable and easy to transport to remote sites. No cranes or concrete foundations are required for installation. Strong steel tube sections slide together and are tilted up from the ground using a ginpole and heavy duty winch. Standardized FAA markings and equipment are available to meet your project needs. All NRG towers are backed by our unrivaled engineering design and two-year warranty.

To ensure short lead times for our customers and stringent quality control, we manufacture our resource assessment and optimization systems in a dedicated, state-of-the-art facility at NRG headquarters in Vermont, U.S.A., all governed by our lean manufacturing principles and ISO-certified processes.

80m XHD TallTower™

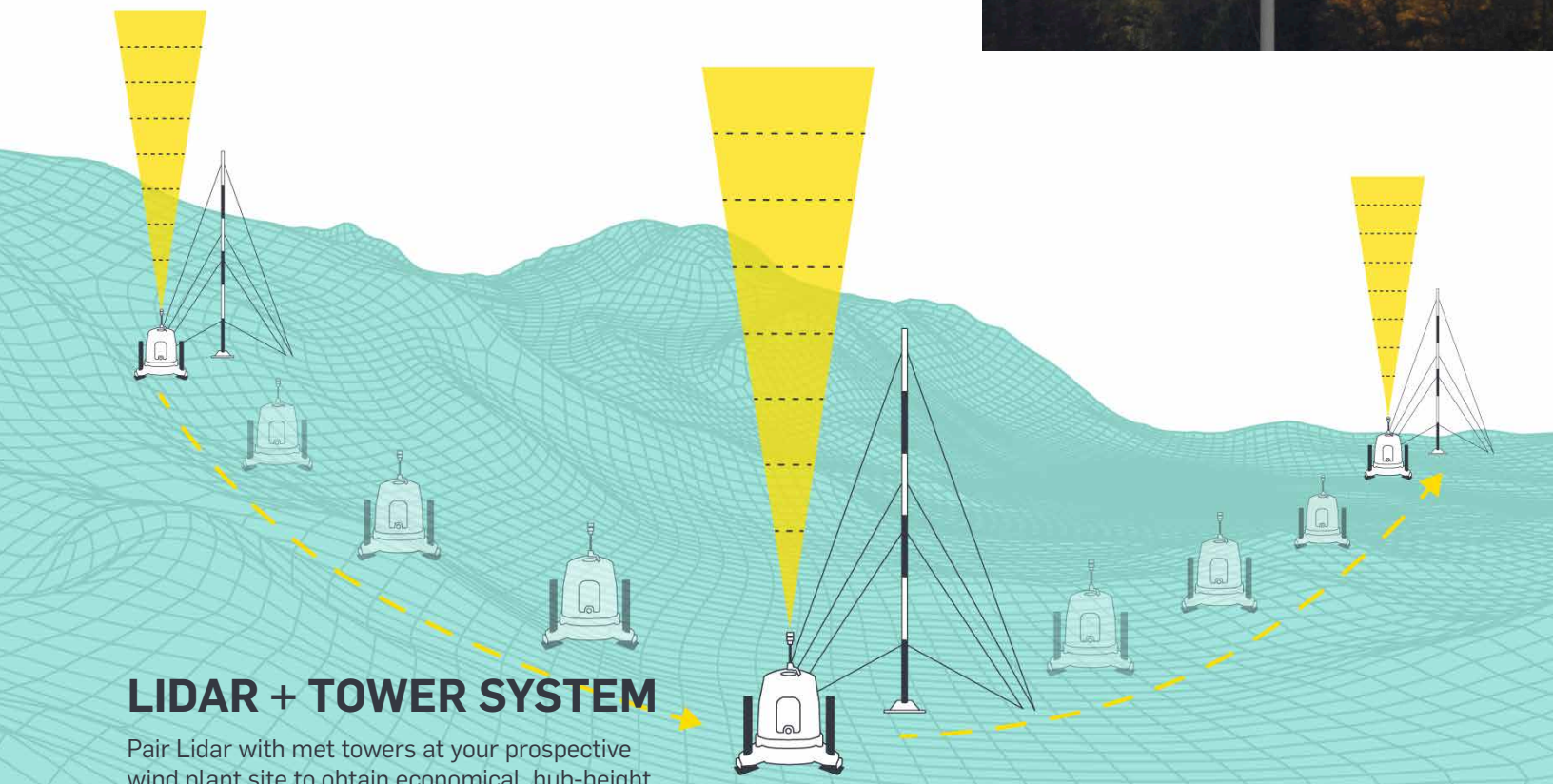
Obtain reliable data at or near hub-height and lower uncertainty. Built to withstand heavy ice and wind loads, this tower meets the applicable sections of ANSI/TIA-222-G. This tower system features strong steel tube construction, bolted tube sections for even greater load-bearing capacity, and a reinforced steel base plate.

Super 60m XHD TallTower™

The Super 60m XHD is a highly versatile meteorological tower designed specifically for wind resource assessment in harsh climates. Because it is based on the same design as the 80m XHD, an optional 20 meter tube section enables expansion to 80 meters, providing more system flexibility to meet your long term project needs.

60m and 50m XHD TallTower™

The 60m XHD TallTower is the industry standard for reliable, bankable data – especially when integrated with a Lidar remote sensing device. Designed using decades of tilt-up tower expertise, our 50m and 60m XHD models are built for durability, extreme weather resilience, and packaged for easy transport and fast installation.

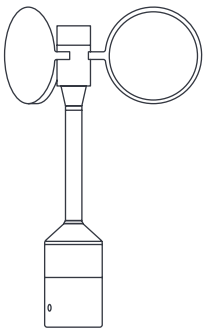


LIDAR + TOWER SYSTEM

Pair Lidar with met towers at your prospective wind plant site to obtain economical, hub-height wind speed measurements.

SENSOR OPTIONS

Choose from our complete portfolio of met sensors for resource assessment, power performance testing, and permanent reference towers. With over 40 years of proven experience, our sensors provide long-lasting durability, dependable performance, and flexible options to fit every application and budget.



Anemometers

NRG S1

High-accuracy Class 1 performance paired with unmatched value for resource assessment and power performance campaigns.

NRG 40C

Reliable, field-tested measurement accuracy with a value-driven design.

NRG Hybrid XT

Heated anemometer delivers reliable measurements in icing and extreme environments.

RM Young 27106T Vertical

Offers precise measurement of the vertical component of wind velocity.

Thies First Class Advanced

WindSensor P2546-OPR

Alternative sensor options, combining Class 1 performance with durability in extreme environments.

Vanes and Other Met Sensors

NRG 200M Wind Vane

Features a highly accurate sensing element with no dead band, delivering lower uncertainty and 360° continuous measurement.

Hybrid XT Vane

Heated vane delivers reliable wind direction measurements in icing and extreme environments.

BP65 Barometric Pressure Sensor

This next generation sensor builds on the NRG BP60's trusted design, providing accurate measurements and lowering uncertainty.

T60 Temperature Sensor

Developed from the NRG 110S platform, this sensor offers improved temperature accuracy and robust long-term performance in extreme conditions.

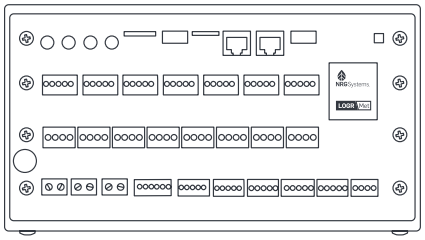
RH5X Relative Humidity Sensor

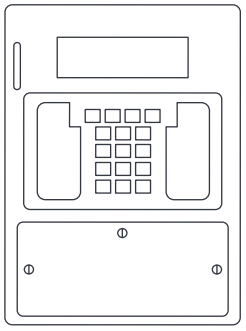
A low-cost continuous measurement relative humidity sensor.

Li-Cor LI-200R Pyranometer

Recommended for early stage prospecting, the Li-Cor LI-200R pyranometer is an excellent general purpose solar radiation sensor.

NRG LOGR FAMILY AND SYMPHONIEPRO® DATA LOGGERS



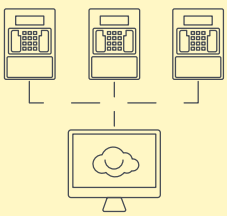


- High-resolution, high-accuracy measurements
- Long-term data storage
- Supports wide range of sensor types (analog, digital, serial)
- Easily configurable – no programming required
- Modular accessories for global communications & autonomous power support (Modbus TCP, Cellular, Satellite)
- Unparalleled security and ease-of-use

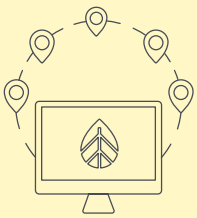
NRG Cloud

NRG Cloud offers a complete data ecosystem that transforms raw wind and solar measurement data into actionable insights. Its user-friendly interface and robust feature set make it an indispensable tool for maximizing energy production and minimizing operational costs.

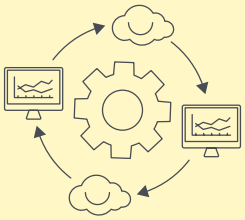
ACTIONABLE SUMMARIES



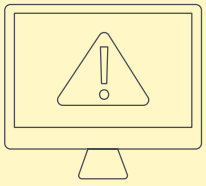
AUTOMATED DATA STORAGE



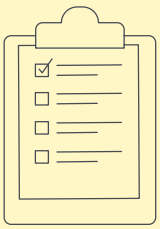
REMOTE LOGGER CONFIGURATION



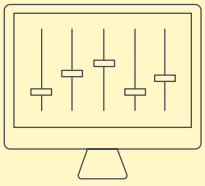
COMPREHENSIVE FLEET MANAGEMENT



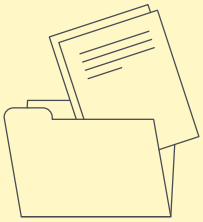
EXISTING WORK-FLOW INTEGRATION



ADVANCED ALERTS



CUSTOM RULES



DOCUMENT STORAGE

WHO WE ARE

NRG Systems is the global leader in wind and solar resource measurement and intelligence. Our hardware, software, and related services empower many of the world's largest developers to make informed decisions and improve efficiency at all stages of project development. With over 40 years of experience, NRG's heritage of innovation and deep understanding of data collection, management, and analysis drives the advancement of our signature turnkey solutions. A subsidiary of ESCO Technologies Inc. (NYSE: ESE), NRG Systems has offices in North America, Europe, and Asia and has shipped products to over 170 countries.

BETTER ENERGY BY EVERY MEASURE®

For more information:
NRG Sales
+1 802.482.2255
sales@nrgsystems.com
nrgsystems.com
ISO 9001: 2015 Certified

SERVICES + SUPPORT

All NRG towers and equipment are backed by our unrivaled engineering design, lifetime technical support, and two-year warranty. Get the technical information you need quickly online or contact our responsive, expert team directly at support@nrgsystems.com.

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