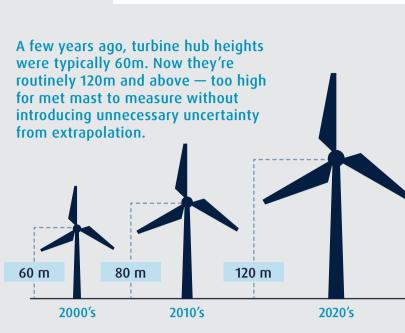
Lidar is changing our industry — creating incredible value for developers, investors, manufacturers, and operators. We asked two industry experts to weigh in using their deep experience deploying lidar around the world.

Lidars measure precisely at even the highest hub heights.





TYPICAL HUB HEIGHTS ON THE RISE

The higher the turbine hub heights we're getting, the more uncertain extrapolating shear is from met towers. Today we have at least one Leosphere WindCube® at every development project we have."

— Phillip Hurlbut Meteorologist, Pattern Development



Lidar enables multi-factor assessments and better power curve models.

You can start thinking about everything you could input and come up with a multidimensional power curve, which would be more accurate than the ones provided in pre-construction from a single point."

Philippe Pontbriand



The rich data from lidar enables developers and operators to formulate more precise power curves using multiple inputs at different heights.

Not using lidar can actually introduce bias.

Extrapolating from single-point met mast data can harm the project — regardless of the fact that it's "how things have always been done."

If we're not using remote sensing devices, we're at risk to actually introduce bias. For most of these met masts, we've seen what we call shear relaxation — a .9% over-prediction when we use the mast alone, and 1.8% in energy." Philippe Pontbriand

Bankable data,



confident, thereby increasing your chances for funding.

Lidar makes investors more

That's one reason why we're pushing for remote sensing devices: to provide investors with more confidence. The remote sensing device delivers cheaper, faster, and safer resource assessment campaigns." Philippe Pontbriand

rigorously validated measurements, savings in deployment time and money these things are just as exciting to your investors as they are to you.

Lidar can go nearly anywhere.

Places where you can't build met masts? Yes. Alongside traditional met mast installations for reducing uncertainty? Yes.

Offshore? Yes.



towers cost a lot more and take a lot longer to permit, and they're not portable. We have done standalone use with the lidars in areas where met towers are hard to install." — Phillip Hurlbut

Those taller met



and tomorrow.

LEOSPHEIE A VAISALA COMPANY

Lidar gives you valuable data and a competitive edge over companies that aren't yet using it. Seize the advantage.

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