

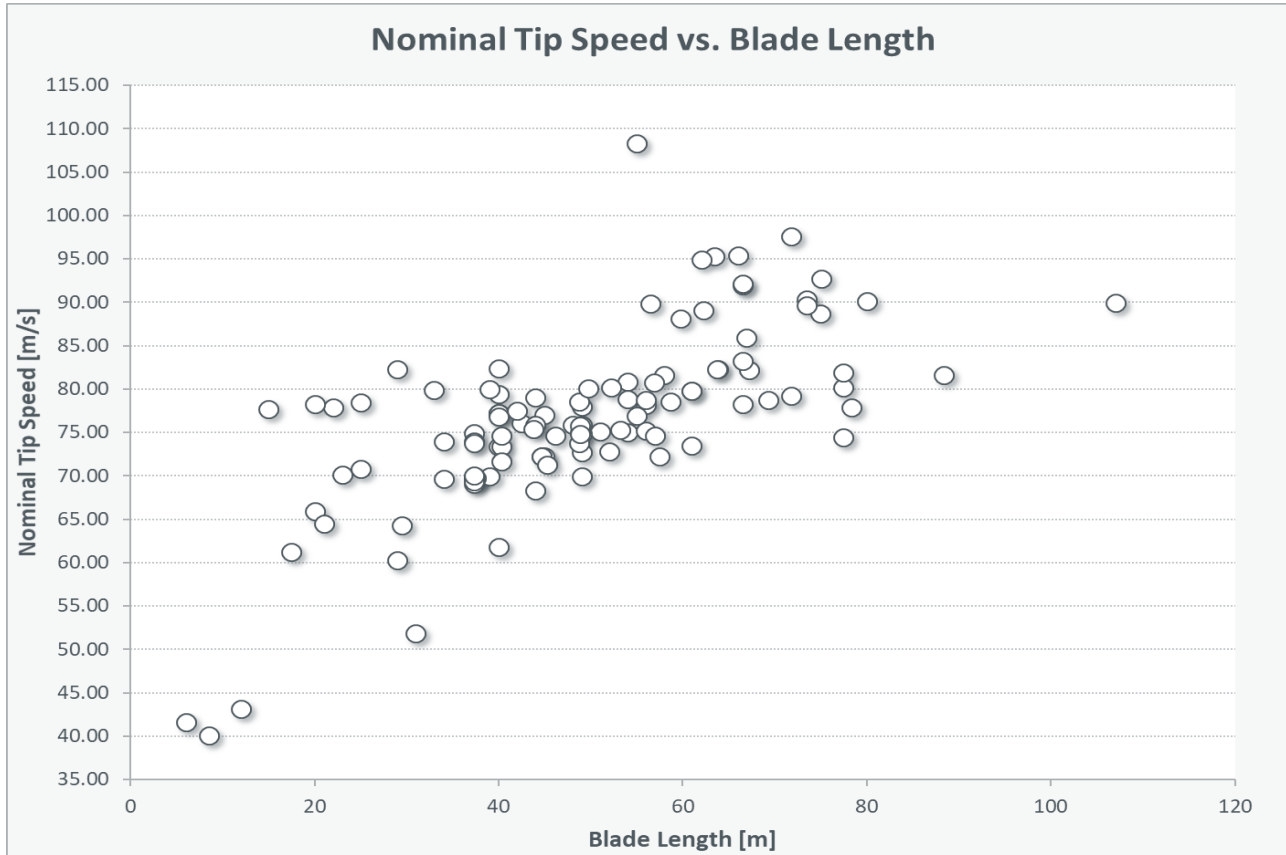


CHALLENGES OF NEW EROSION PROTECTION MATERIALS FOR OFFSHORE TURBINES OPERATING AT 100+ M/S

Wind Energy Denmark | October 1, 2019

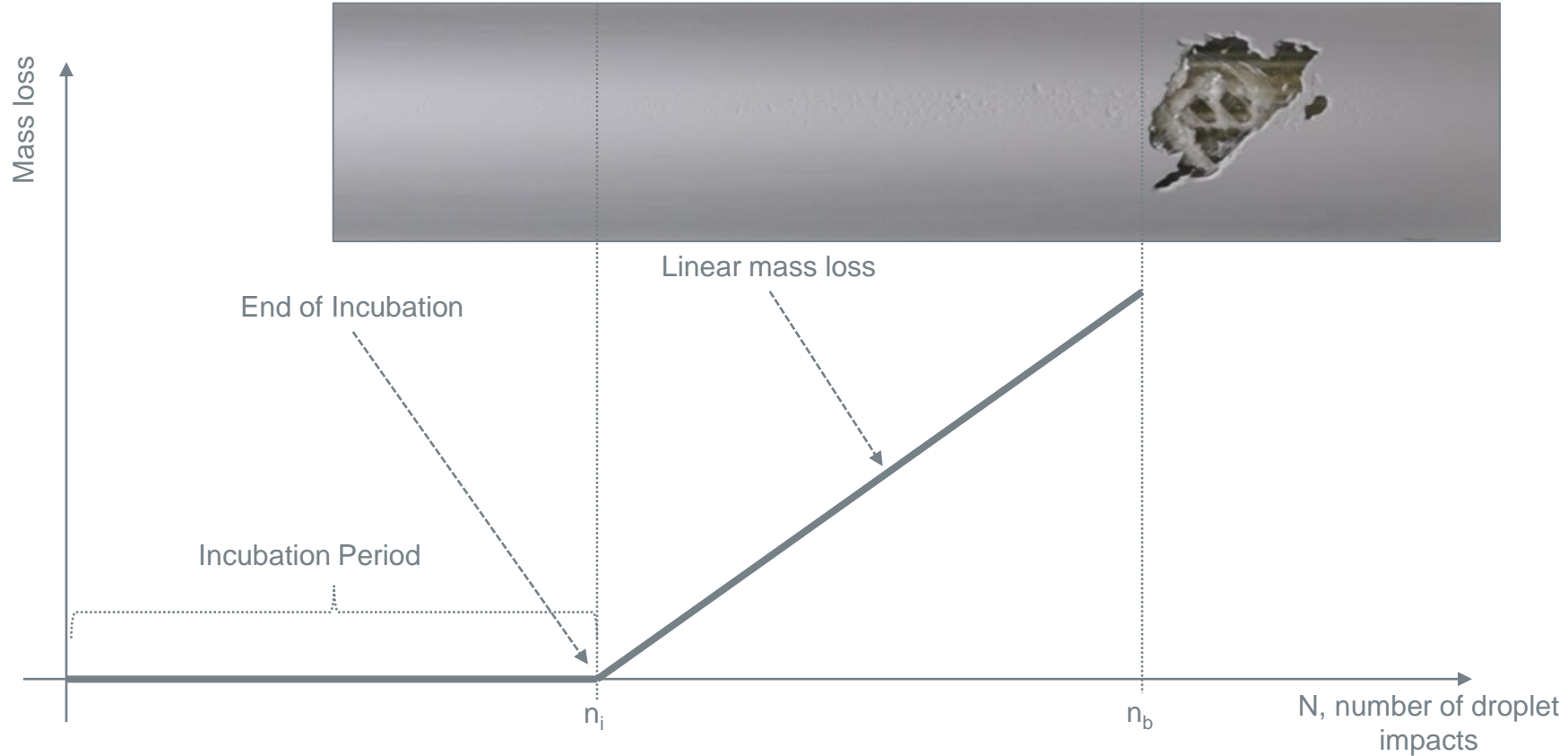
By Michael Drachmann Haag, Principal Engineer, LM Wind Power

Tip speeds are increasing!

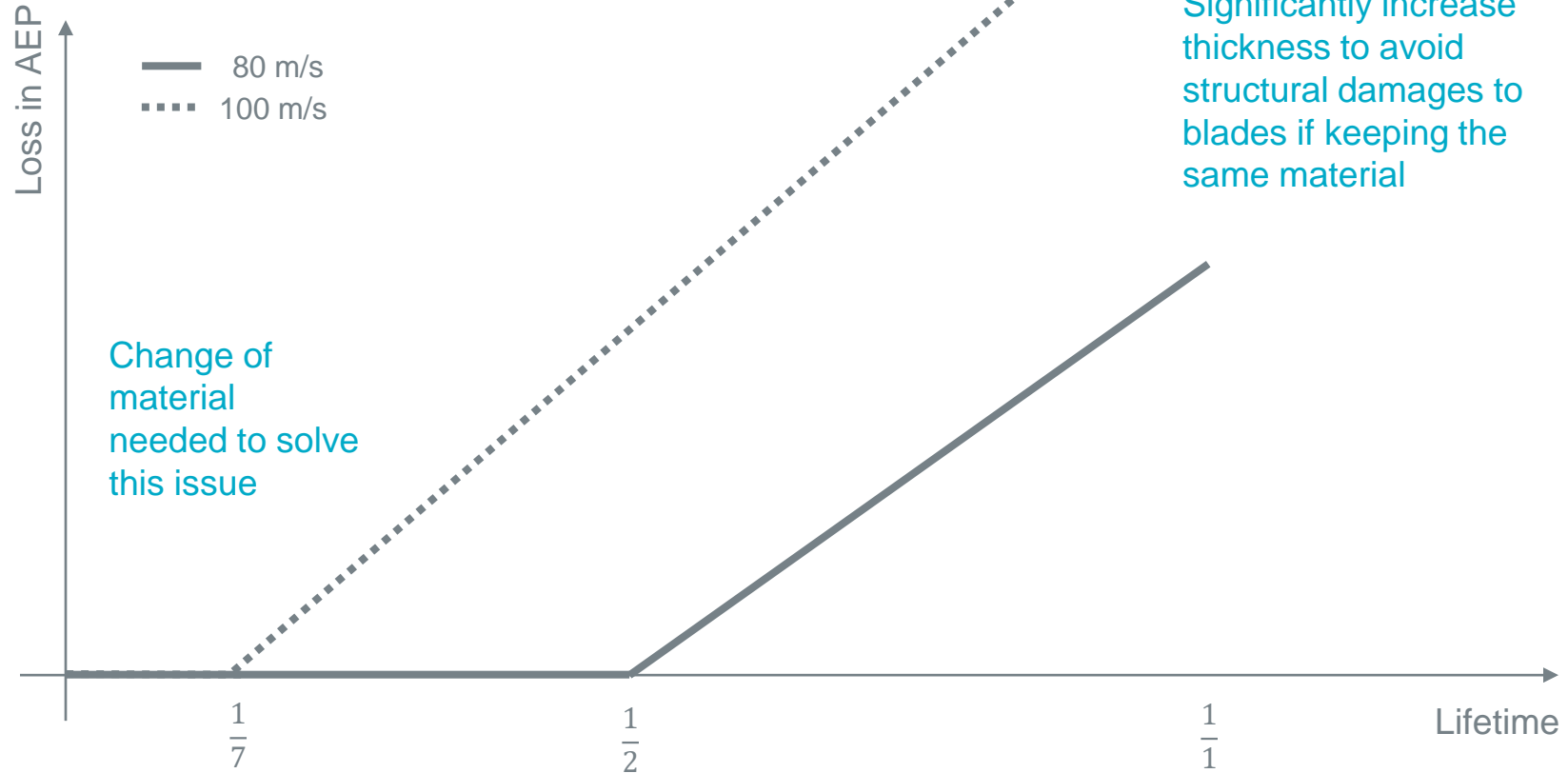


- » Constant pressure on lowering the cost-of-energy is leading to increases in tip speed
- » Increased tip speed exposes blades to a higher degree of leading edge erosion

How does a material erode?



How does increased tip speed affect blade lifetime?



Material innovations are necessary to continue to reduce the cost of wind energy

