Supporting Information for

An Ultra-Durable Windmill-Like Hybrid Nanogenerator for Steady and Efficient Harvesting of Low-Speed Wind Energy

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Supplementary Figures

Fig. S1 Electrical output performance of W-HNG without magnet at rotation speed of 15 rpm
Fig. S2 Electric output signals of the TENG component with different magnet mass at the rotation speed of 15rpm

Fig. S3 Annotation of specific parameter of the device
Fig. S4 Durability and electrical stability test of W-HNG for continuous operation of 5 days at a rotation speed of 15rpm

Fig. S5 Digital pictures and durability test of a disk-type triboelectric nanogenerator at a rotation speed of 15rpm

Fig. S6 SEM pictures of FEP films: (a) a pristine one, (b) W-HNG, and (c) disk-type TENG after five days durability test