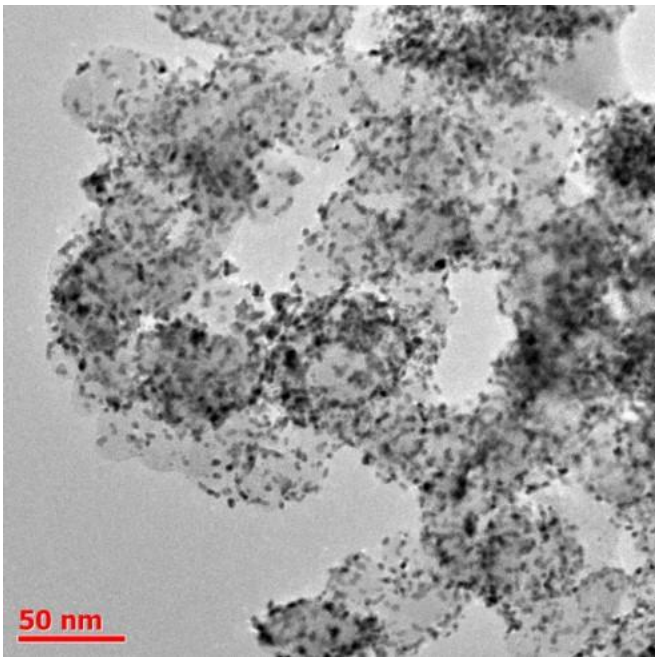
ENYrgy

ENYrgy is a high-performance Pt/C catalyst with maximum active surface area. Due to its nanocrystalline grain size and good distribution in the material, Pt/C-ENYrgy has very high energy parameters for use in fuel cells.



Thanks to our expertise in electrochemistry, coating technology and noble metal catalysts, ENY-Mobility effectively uses ENYrgy catalysts in Proton-exchange membrane fuel cells (PEMFC) to achieve high CO-tolerance.

ENYrgy consists of various concentrations of platinum catalyst on the surface of high purity carbon with extremely high catalytic properties for use in a fuel cell.

Products	Pt loading, % wt.	Average size of Pt NPs (XRD), nm	Average size of Pt NPs (TEM), nm	ESA, $m^2/g(Pt)$	Mass activity in ORR*, A/g(Pt) at 0.90 V	Durability*,% (AST: 5000 cycles, 0.6-1.0 V)
ENYrgy-20	20±0.2	2.2±0.2	2.5±0.3	120±12	250±13	No less 85
ENYrgy-30	30±0.2	2.9±0.3	2.9±0.3	98±9	208±10	No less 85
ENYrgy-40	40±0.2	2.1±0.2	3.1±0.3	88±9	186±9	No less 85
ENYrgy-60	60±0.5	2.7±0.3	3.9±0.4	64±6	136±9	No less 80

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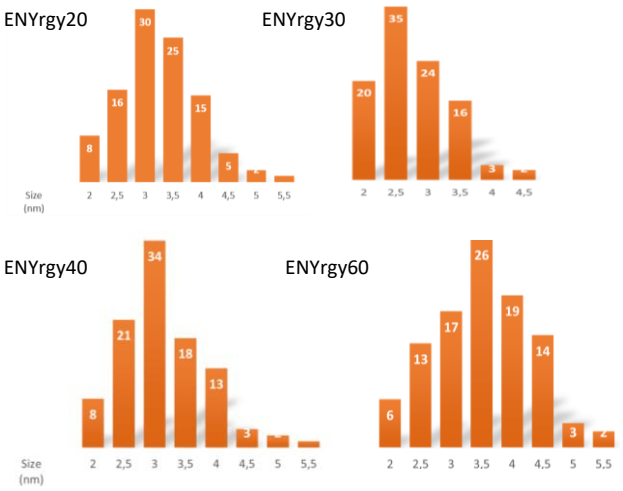
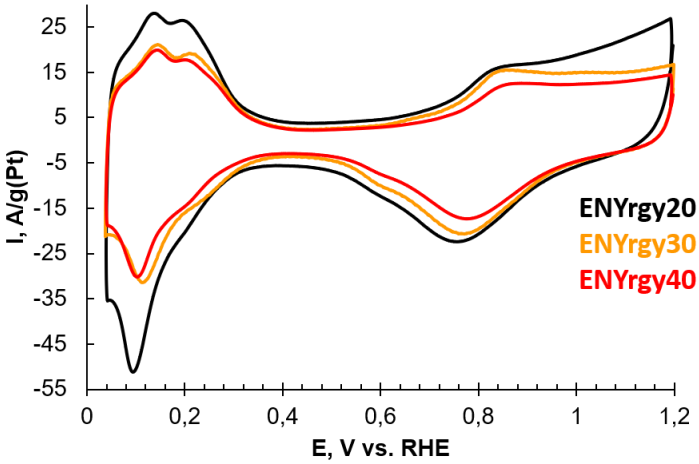
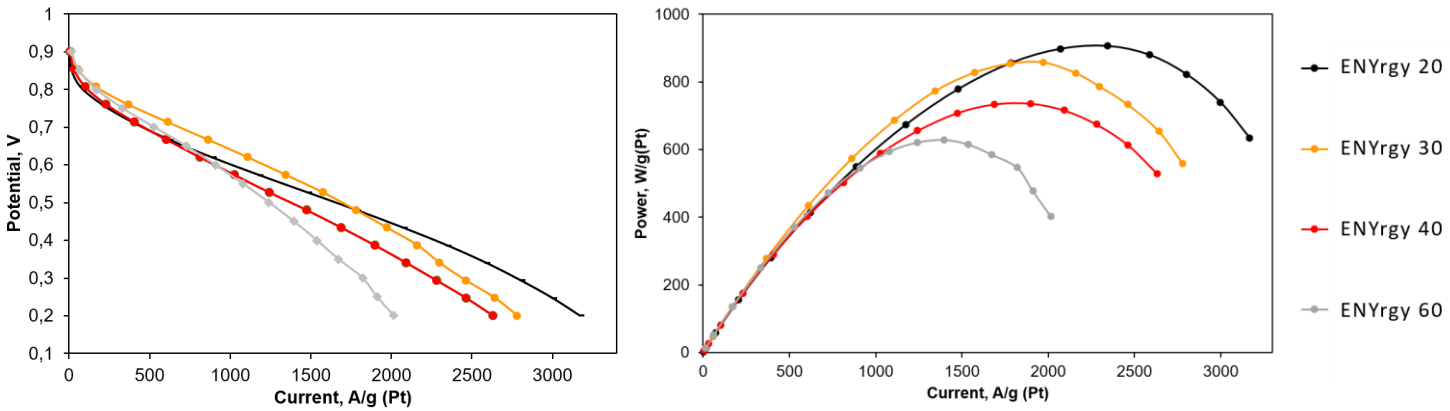




Cyclic Voltammetry of hydrogen and oxygen adsorption at the electrode, based on the mass of platinum.

ENYrgy catalyst shows the best performance compared to similar products from other manufacturers. The special formulation makes the use of catalysts in PEM-Fuel Cell (PEMFC), Direct-methanol fuel cells (DMFCs), Gas diffusion electrode, gas detector especially compact and highly efficient.



Current-voltage and power specific characteristics of the MEA with catalysts ENYrgy20, ENYrgy30, ENYrgy40, ENYrgy60. The Pt-loading in each catalytic layer was of 0.4 mg/cm2.

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