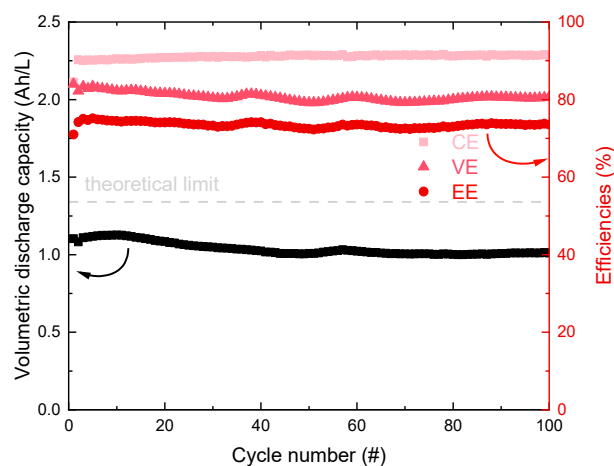
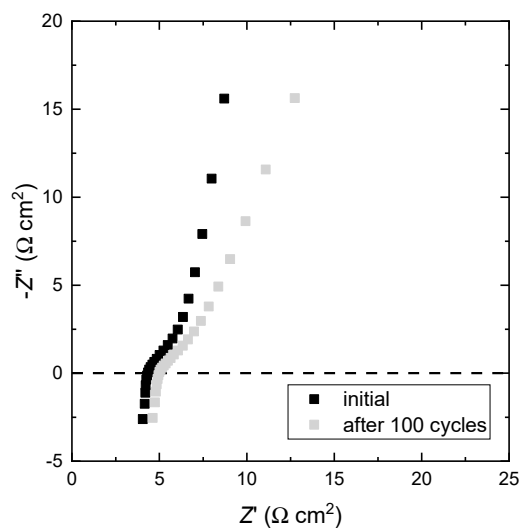


Supplementary material for the manuscript:

“Modeling of a Non-Aqueous Redox Flow Battery for Performance and Capacity Fade Analysis”.  
D’Adamo et al. 2024.



**Figure S1.** Flow cell cycling of 0.05 M **ETN** and **MEEPT** in 0.2 M of TBAPF<sub>6</sub>/ACN – Volumetric discharge capacity (black) on  $y_1$ -axis (left) versus cycle number and coulombic, voltaic and energy efficiencies (light rose, rose and red) versus cycle number on  $y_2$ -axis (right). The dashed line represents the maximum theoretical capacity.



**Figure S2.** Potential electrochemical impedance spectroscopy (PEIS) of the flow cell cycling with 0.05 M **ETN** and **MEEPT** in 0.2 M of TBAPF<sub>6</sub>/ACN (cycling shown in Figure S1) using a Daramic 175 porous separator before and after cycling for 100 cycles. The intersect with the  $Z'$ -axis represents the DC resistance originating from cables, membrane, and solution.