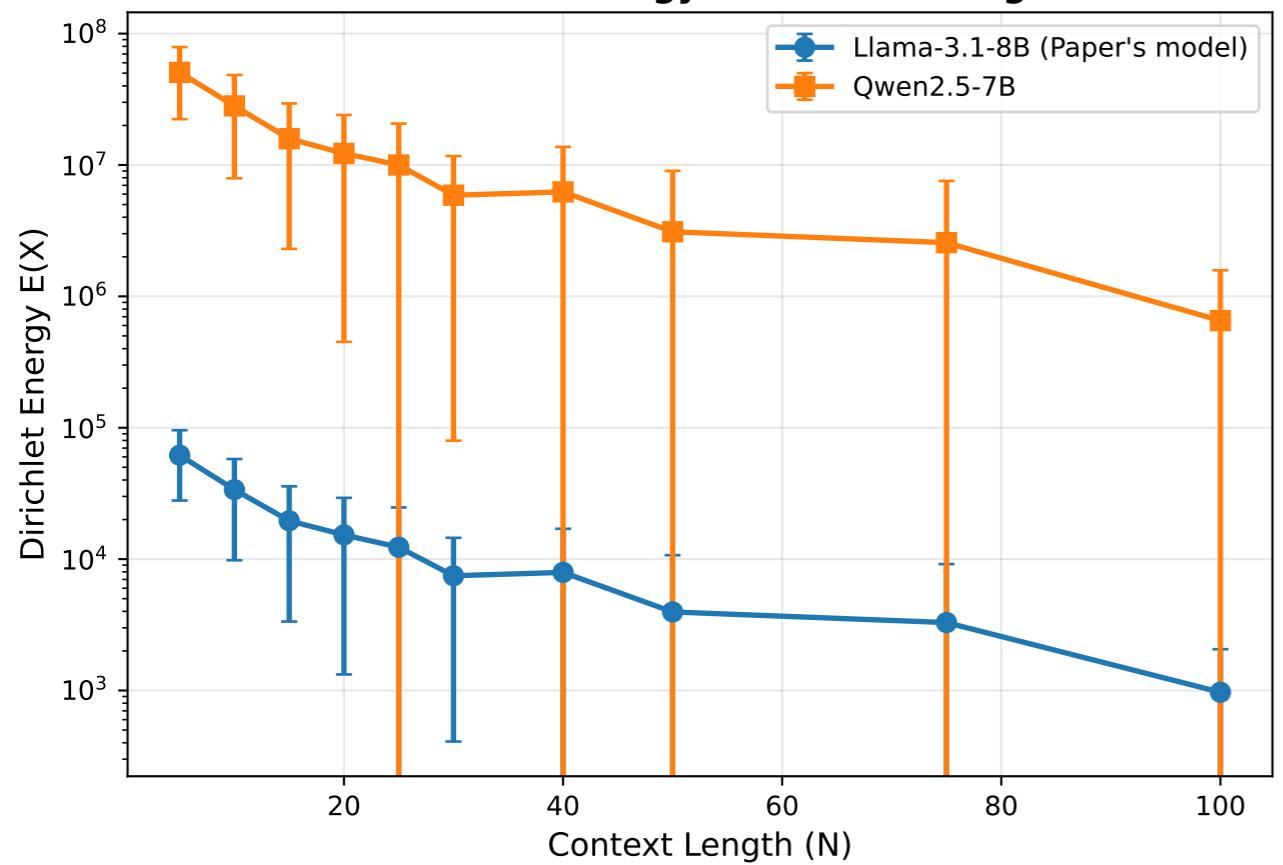


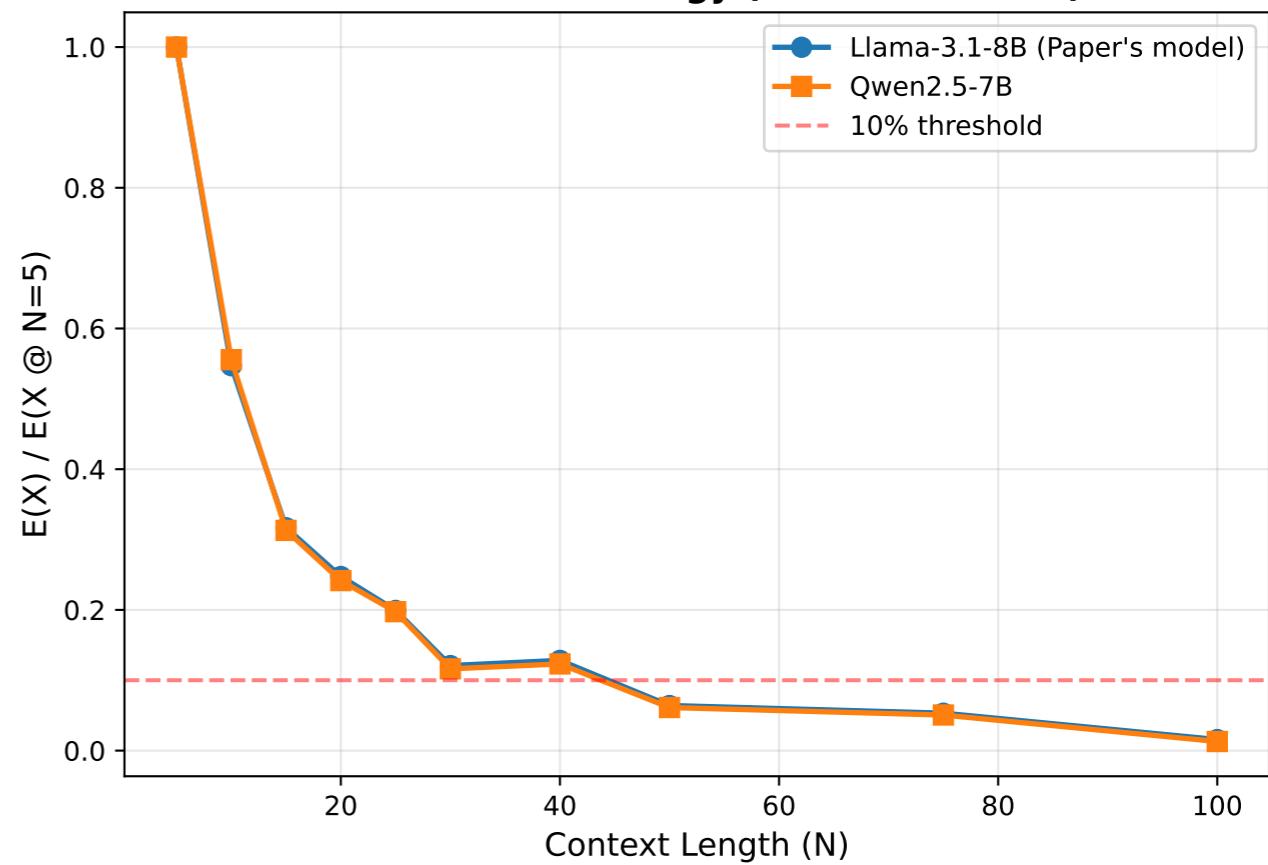
# Park et al. (2024) Reproduction: Model Comparison

## Dirichlet Energy Decreases as Context Length Increases

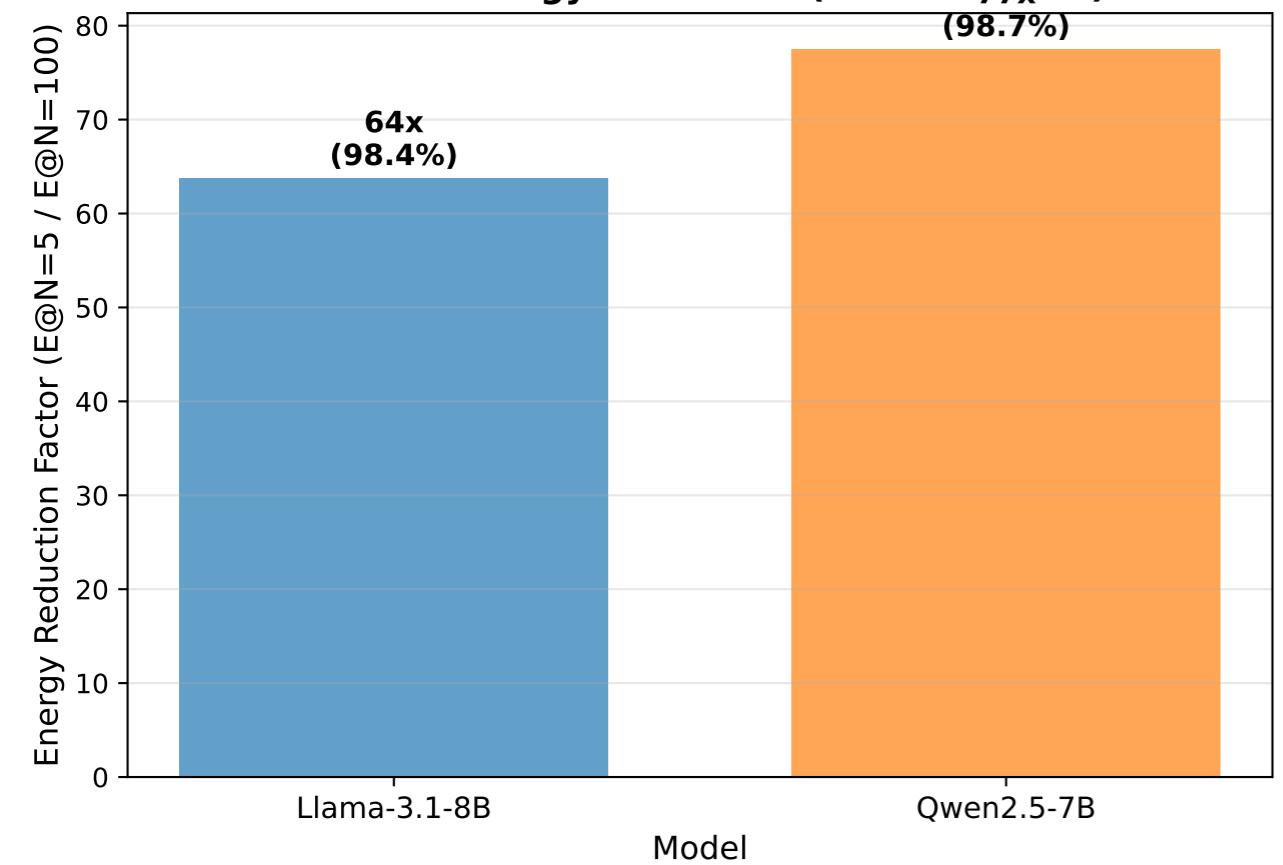
**A. Dirichlet Energy vs Context Length**



**B. Normalized Energy (Relative to N=5)**



**C. Total Energy Reduction ( $N=5 \rightarrow N=100$ )**



**D. Comparison Summary**

Metric	Llama-3.1-8B	Qwen2.5-7B	Park et al.
Energy @ $N=5$	61,789	50,661,295	High
Energy @ $N=100$	969	654,009	Low
Reduction Factor	64x	77x	Large
Phase Transition	$N=5-15$	$N=5-15$	Early N
Layer Analyzed	26/32	20/28	26