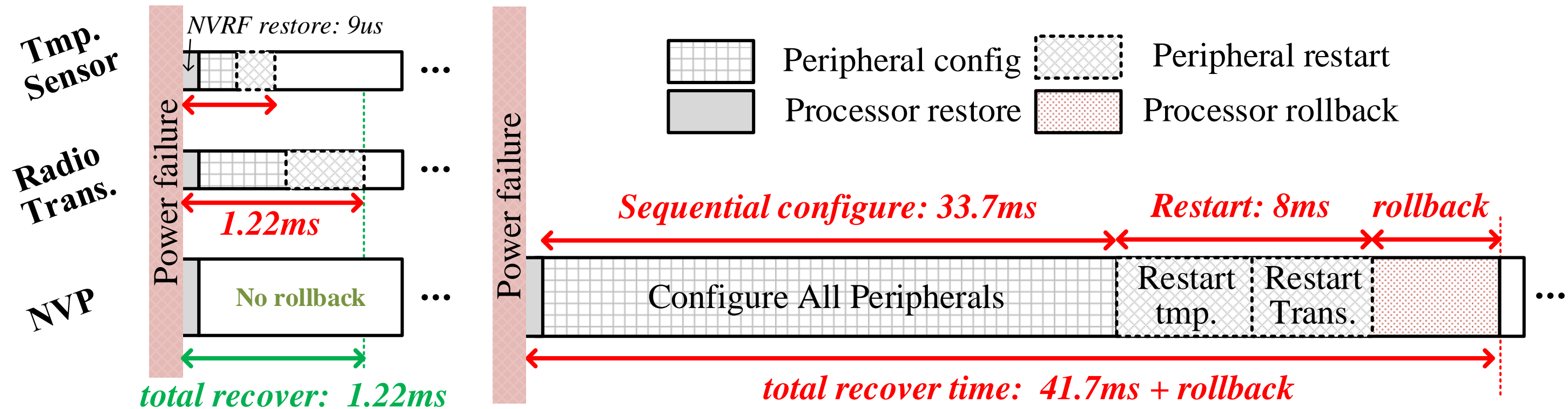


(a) Peripheral recover overhead reduction



(b) Recover performance improvement by multi-device checkpointing