a.) $\tau_E = \dfrac{W}{P}$ ← plasma stored energy

↑ global energy confinemnt time

↖ ohmic heating power

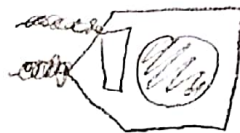For an Ohmic tokamak at steady state, $P = I_\phi V_\phi$

$\quad$ $I_\phi \rightsquigarrow$ measured with Rogowski coil

$\quad$ $V_\phi \rightsquigarrow$ measured with toroidal loop

$W \sim (Vol) \langle p \rangle \sim 2\pi R_0 \pi a^2 \langle p \rangle$

$\quad$ $\langle p \rangle \rightsquigarrow$ measured with diamagnetic loop
$\quad$ and compensation coil

b.) Now introduce radial power injection $P_{beam} \gg P_{ohmic}$

Now $\quad P = IV + \boxed{P_{aux}}$ ← Need.

Note that W also changes, so τ_E does not necessarily

$\quad$ decrease.

Additionally, beam injection might produce anisotropy

$\quad$ $P_\perp \neq P_\parallel$, which could lead to errors.