

The Goal of the ETC is to pass the electrons From The FAD and NAD molecules to the inner mitochondrial membrane where there is 4 complexes that the electrons pass from 1st to the 4th complex. then the 4th complex gives the electrons to the O₂ forming H₂O.

Oxidative Phosphorylation: when FAD and NAD molecules loses their electrons in the chain, the free energy is lost too, so it got captured and stored by the production of ATP from ADP and inorganic phosphate. The remainder of the free energy which isn't trapped as ATP is released as heat.

Remember: NADH made in cytosol , it Can't get into mitochondrial matrix.

