State-owned energy company PT Perkebunan Nusantara III (PTPN III), owner of two palm oil mills in the Sei Mangkei Industrial Estate, built a biomass power plant that uses the empty fruit bunches (EFB) as fuel to power the boiler. The plant generates 7000 kW of low-cost, clean, renewable electricity, enough to power the entire Sei Mangkei Industrial Estate.

Challenge:
To develop a flexible energy power plant that meets governmental environmental policies and provides reliable, low-cost, renewable energy to end-users.

Result:
Elliott provided two 3,500 kW full condensing steam turbine generator sets that use the steam generated from the biomass boiler.

Benefits:
- Replaced fossil fuel power with biomass power generation
- Clean, renewable energy
- Flexible energy power plant
- Lower-cost energy
- Meets environmental guidelines

“The priority of the Indonesian energy policy is to reduce oil consumption and to use renewable energy.”

“Due to its low chlorine content, shredded EFB fiber is a safe and sustainable bio-fuel resource to replace petroleum, gas and coal.”