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INDUSTRIAL ENERGY EFFICIENCY SHARING SESSION

Process Condensate Blowdown Modifications Project

Mr Yang Jizheng Sam
ExxonMobil Asia Pacific Pte Ltd

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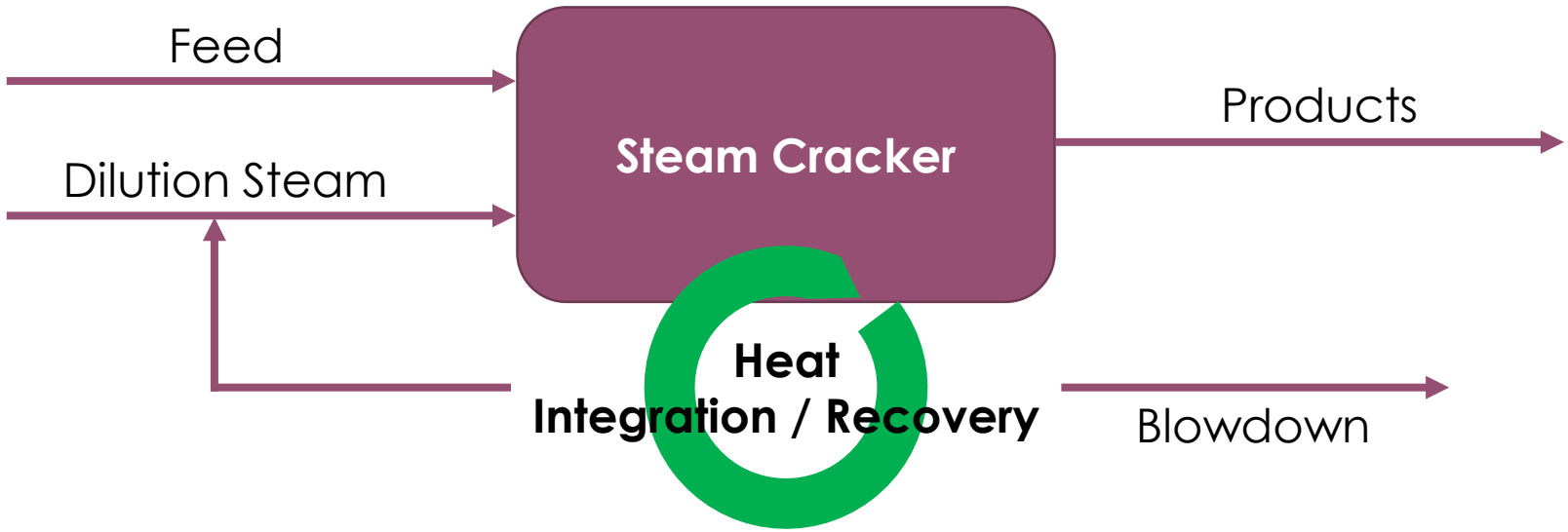
Unit Overview



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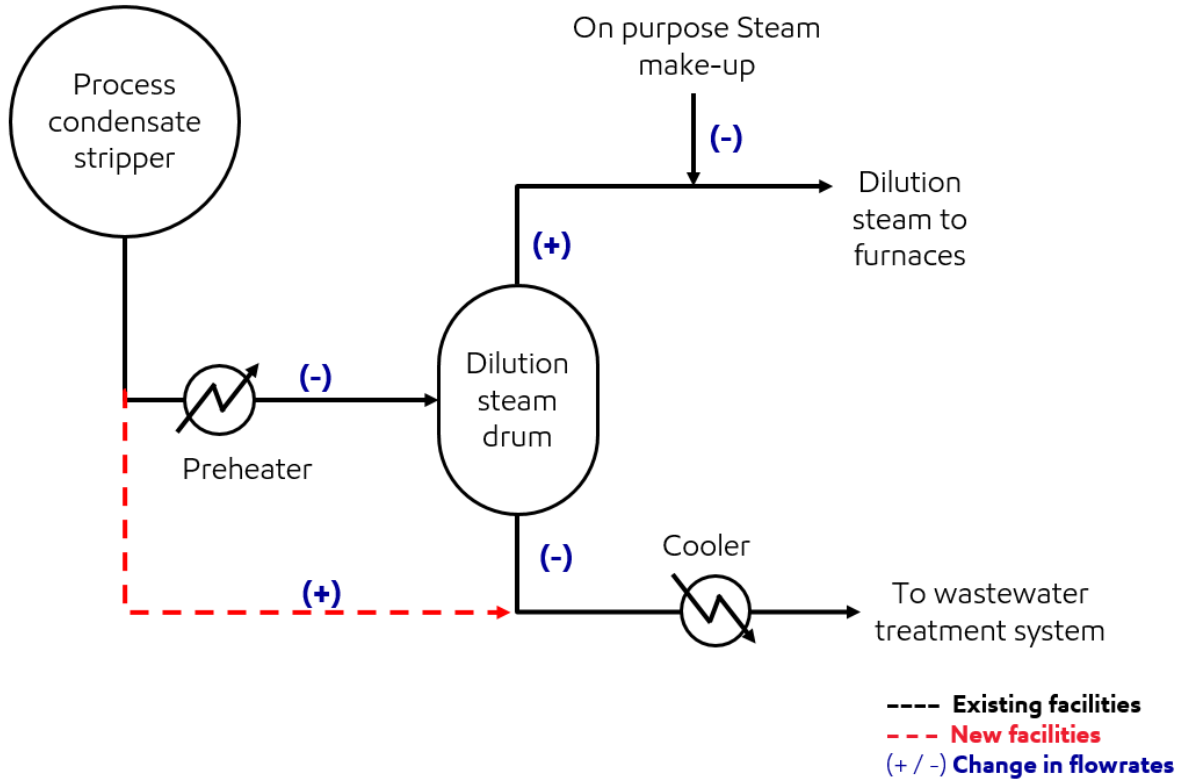
Post-Project Process Flow

Base case

- Bottom pump around (BPA) duty during light feed-slate insufficient to turn all available condensate into dilution steam

Project

- Address challenges
  - Potential impact to dilution steam quality
  - Potential increased corrosion of generator
- New bypass line with appropriate control instrumentation allows for additional water beyond minimum blowdown requirement to be bypassed
- Saves energy by uplifting heat wasted to cooling water to generate dilution steam (MP steam)
- Advanced control tools used sustain performance and maximize energy savings



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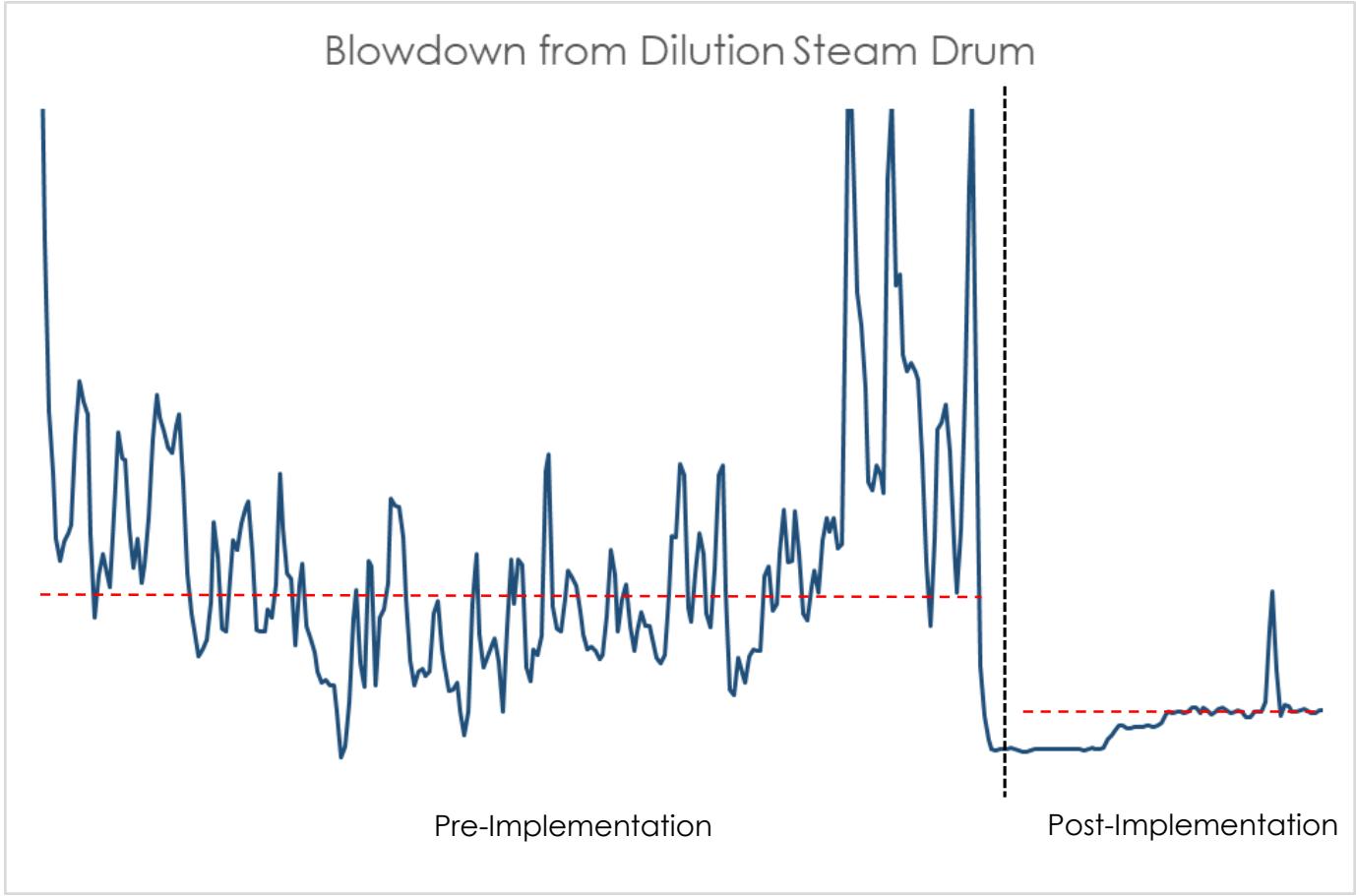
Energy Saving Performance

- Annual energy savings of 35 GWh



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