

**Thermal Energy**

**Solution Card No.6: Optimizing losses of condensate return in the boiler by pressurizing the daily tank**

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| **Solution Card No.6: Optimizing losses of condensate return in the boiler by pressurizing the daily tank** |
| **Inputs** |
| Hotel | \*\*\* |
| Boiler Type | Fire Tube Boilers / Water Tube Boilers |
| Fuel Type | Natural Gas / Diesel / LPG |
| No. Of Units | 1 |
| **Assumptions** |
| Operating Condition | \*\*\* TPH @ \*\*\* bar |
| Exchange Rate | 16 EGP/USD |
| Consumption Profile | \*\*\* hr/day | \*\*\* days/year |
| **Constraints** |
| Fuel Prices | \*\*\* EGP/MBTU (2020/2021) |
| Water Prices | \*\*\* EGP/m3 (2020/2021) |
| **Proposed Solution** |  |
| Condensate Losses in Tank Flowrate | \*\*\* ton/hr |
| Condensate Losses in Tank Percentage | \*\*\* % |
| Annual Energy Saving | \*\*\* kWh (\*\*\* MBTU)  |
| **Economic Features** |
| Average CAPEX | EGP \*\*\* |
| Annual Savings | EGP \*\*\* |
| Payback Period | \*\*\* year |
| Lifetime | 15 years |
| Annual CO2 Reduction | \*\*\* tCO2e |