**Thermal Energy**

**(TE12)**



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| **Fact Sheet TE12: Optimize boilers systems using oxygen analyzer** | |
| **Overview** | |
| *Objective* | Maximizing boiler’s efficiency and reducing the thermal energy used |
| *Action* | Installing combustion gas analyzer & Manual Adjustment Air Damper |
| *Key Challenges* | Checklist of periodic adjustment of the A/F ratio |
| **Process** | |
| *Complexity* | Moderate – system’s calculations and implementation |
| *Equipment & Material* | Combustion gas analyzer & Manual Adjustment Air Damper |
| *Human Resources* | Engineers & technicians |
| **Considerations** | |
| *Regulatory Aspects* | None |
| *Economic* | Moderate CAPEX and OPEX, high savings – depends on every system/Hotel separately |
| *Advantages* | * Decreasing Natural gas / Diesel monthly bill. * Improving burners’ efficiency. * Reduction in CO2 emissions. |
| *Disadvantages* | System’s shutdown to install new equipment |
| **Impacts** | |
| *Environmental* | Pollution reduction as a result to CO2 reduction |
| *Employment Opportunities* | Moderate – technical labors |