

Four Affco sites save significant energy costs with regular boiler tuning

Affco tuned their boilers recently at four sites, reducing fuel use by 730,000 kWh per year, with consequent significant savings

The Opportunity

More than half of Affco's energy is used in boilers. Even a 1% saving in boiler efficiency equates to significant cash savings per year across the group. Often, sites complete a quarterly safety check on their boilers. However a comprehensive boiler tune is not completed unless specifically asked for.

A boiler tuning programme completed by EECA in 2011 demonstrated savings up to 10% can be achieved.

The Solution

As part of Affco's group energy management programme, four sites (Horotiu, Landmeats, Napier and Moerewa) arranged a boiler tune. The tune met some of the requirements in EECA's guide on boiler system tuning. It includes measuring and reporting boiler efficiency before a boiler tune and after a boiler tune.

Some boiler service businesses report boiler efficiency either before or after a boiler service; however often not both. It is essential to report both, as well as efficiencies across a range of firing loads.

This information is needed to calculate how much fuel is saved and to calculate the necessary boiler tuning frequency.

The Results

Boiler efficiency improvements ranged from 0% for one site up to 2.3%. Cost of the boiler tunes ranged between \$600 and \$1,500. Note, comprehensive boiler tunes on large boilers can range up to \$12,000.

Tuners involved Solid Energy, Advance Boiler Services (ABS), Eastern Boiler Services (EBS) and Steam & Machinery.

EECA offer a discounted programme to tune boilers every six months for two years, using approved tuners, such as ABS, EBS, RCR Energy and EPS.

→ *Four sites tuned boilers*
→ *730,000 kWh saved every year!*