



Energy audits spark on-farm savings

Energy is one of the fastest growing on-farm costs (electricity costs alone have increased by around 350 percent since 2000). To help growers cut costs and improve their on-farm energy efficiency, CRDC, NCEA and CottonInfo have been delivering the ***Improving energy efficiency on irrigated cotton farms*** project over the past two years, including delivering on-farm energy-audits to growers.

Today, we're releasing a **benchmarking report of direct energy consumption** (diesel and electricity use) on our cotton farms, based on the findings of 198 whole-farm energy assessments.

Five key findings from the report:

1. Cotton farms use an average of **11.2 GJ per hectare** in fully irrigated cotton production.
2. Generally, **half of the direct energy consumed is through irrigation**, and about 25 percent is through high load tractor operations pre-season and post-harvest. Significant tractor energy savings of up to 20 percent are possible through tractor/implement setup.
3. Diesel provides at least **90 percent** of the direct energy used on farm.
4. Expenditure on diesel is at least **85 percent** of total energy expenditure.
5. The average direct energy cost (across the 198 farm results) is **\$298 per hectare**. This represents 8.5 percent of the average per hectare cost of production (reported in 2013 as \$3627 per hectare).

So, what can you do on-farm to reduce energy consumption?

The report recommends:

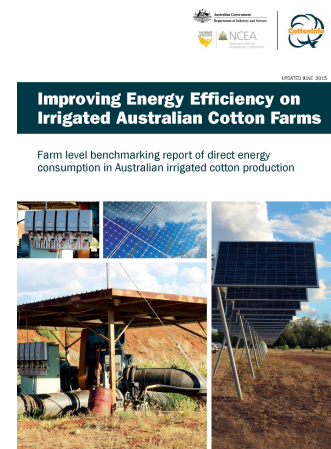
- **Ensuring that any water extracted from a water source is not lost to seepage and evaporation** in storage, delivery and in-field (smaller quantities of water pumped mean smaller energy bills).
- **Reducing the amount of trash that makes it to the intake of a pump.** Very small amounts of trash can have a large impact on the performance of a pump (up to 30 percent reduction in head and discharge).
- **Ensuring tractors have the correct and appropriate ballasting, tyre pressures and implement depth control.** This can help achieve a 20 percent fuel saving.
- **Measuring high energy use elements** via fuel and water flowrate indicators, pressure gauges, tachometers and hour meters.

Where can you go for more?

For the full results, download the [*Benchmarking report of direct energy consumption in Australian irrigated cotton production*](#), or the quick-reference [*Grower Summary*](#).

For more information on energy use efficiency, [visit the CottonInfo website](#).

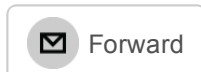
To monitor your on-farm energy use, [check out the EnergyCalc Lite app](#).



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