

ELECTRICITY / ENERGY ASSESSMENT AND REPORT

Energy Solutions Business

Is provided by Integrated Energy Solutions (IES), an independent consulting practise based in Cape Town South Africa, specialising in all aspects of energy supply and utilization.

Our ethos is to help business energy users deal with electricity, fuel or equipment suppliers interests. Shifting the locus of control into the hands of users rather than the suppliers.

The singular objective is to reduce energy costs whilst enhancing reliability and efficiencies, so clients can stop worrying about their energy needs and focus on their business activities.

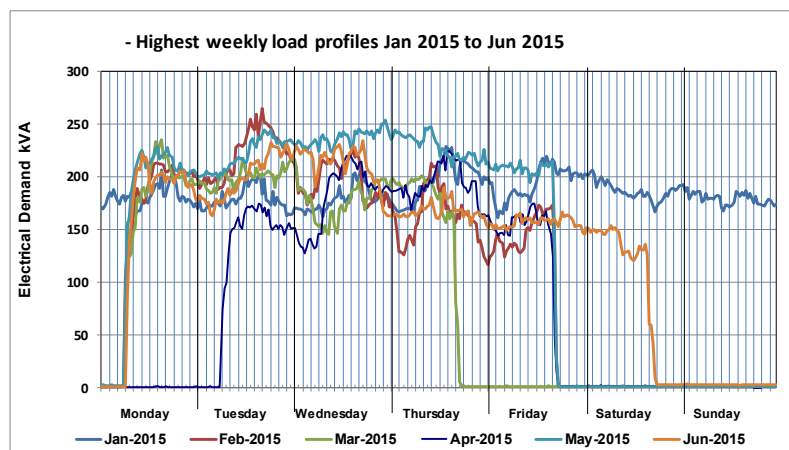


INTEGRATED
ENERGY
SOLUTIONS

Heart of the matter — In South Africa, energy costs are increasing rapidly due to electricity price hikes, coal prices and oil products such as diesel & LPG. The first step for any business is to complete an electricity/energy assessment.

The **Energy Solutions –Business Energy Assessment & Report** service will review current usage practices with a view to identifying a range of energy and cost saving measures. The findings are documented in a report with commentaries on the characteristics of energy usage and costs, action plans and an optional investment business case.

IES has completed 48 assessments over the past two years. The total energy related expenditure of these organisations totalled R131million/year and our recommended savings on average were 32% or R42million a year.



Usage & cost saving opportunities — the report includes:

1. *Managerial responsibility & organisational development* — recommendations on energy management policy, an energy monitoring system and staff training & motivation.
2. *Tariff and cost avoidance actions* — review of all supply points with recommendations of on tariff switching and management, for example load management.
3. *Energy conservation and operating procedures* — A review of operating procedures listing applications and methods for reducing usage, such as timers.
4. *Energy efficiency investments* — Which investments will be viable and what are the expected financial returns. An example is the installation of variable speed motor drives.
5. *Renewable electricity generation* — Suitable options given the high capital costs and long payback periods.

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How to get help?

Please contact Integrated Energy Solutions today with your energy need. We will tailor design our service to meet your needs and budget.

Contact Paul Harris

Email:
paul@ensol.co.za

Mobile:
+27 826003859

Office:
+27 21 9760580

Assessment process and deliverables — An energy assessment process includes the following 5 steps and actions:

;#	Step	IES action	Customer action
1.	Contract	Prepare a proposal based on a telephonic interview	Acceptance of the proposal and payment of the deposit
2.	Data gathering & analysis	Provide a description of the data that is needed, pro-forma spreadsheets for completion. Plus completion of the data analysis before site visit.	Extraction of historical data, completing of spreadsheets and emails requesting data from suppliers
3.	On site survey	Between 4-8 hours will be spent on site reviewing all equipment and practices	Management and staff will need to be available for interviews and access to the facilities
4.	Report preparation	Report will be written; including all areas of savings, estimated costs and tips on implementation	Ad hoc provision of missing information or confirmation of data
5.	Feedback session	A 1.5 hour feedback session on the report, plus delivery of both hard and electronic report copies	Client to be available for the feedback session, with up to 4 people in attendance

