



Industrial & Mining Energy Efficiency Consulting

A core expertise of Earth Systems is the application of cost effective energy management solutions for the industrial and mining sectors. Earth Systems employs a specialist team of professional mechanical and process engineers who can assist with identifying and implementing practical energy and process efficiency improvements for your site.

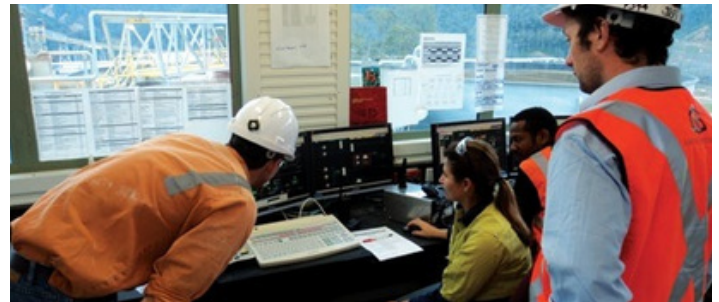
For most industrial and mining operations, energy is a significant cost overhead. Earth Systems' team of specialist engineers can assist you to identify where and how to reduce your energy expenses. Using energy more effectively does not necessarily involve expensive equipment upgrades or new technologies. In many cases, significant cost savings can be achieved by simple changes to maintenance operations or utilities usage. Having a combined experience of over fifty industrial and mining site energy and carbon assessments, our engineering team can identify tailored, practical solutions for your business.

SITE ENERGY USE AND PROCESS EFFICIENCY

In addition to standard energy management mechanisms specified by standards such as AS/NZS 3598, Earth Systems can provide you with our Strategic Energy Assessment (SEA). We can target specific areas of your operation for detailed monitoring and assessment to improve your process efficiency. For example:

- Are there any prospects for cost-effective fuel switching? • Do you have any co-generation potential on site?
- Is your conveyor system optimised?
- Are your pumps and fans well maintained?
- Are you using compressed air appropriately?
- How much is fugitive air ingress affecting your boiler?
- Could your site benefit from power factor correction?
- Do you have smart controllers such as variable speed drives to optimise your electric motors?
- Is your process operating at optimum thermochemical efficiency?
- Have your transport drivers received "eco-driver training"? Have you considered more energy efficient lighting solutions such as T5 fluorescent tubes or LEDs?

Earth Systems' experts can bring a fresh set of eyes to assist you with detailed process efficiency optimisation. We can also provide detailed technical and economic feasibility studies on major energy efficiency projects.



TAILOR-MADE ENERGY MANAGEMENT PLAN

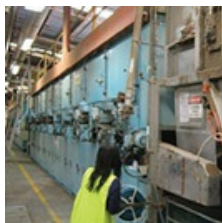
An effective energy management system is the first step to lasting energy savings. Earth Systems can develop and assist you in implementing a tailor-made site Energy Management Plan with targeted energy cost reductions. Some questions that may help you to decide whether these services could benefit your site include:

- Do you have an Energy Management Team on site?
- Has there been a major change to process operations since your last energy audit?
- Has the facility been benchmarked recently against the original design energy and mass flow specifications?
- Has the facility or process been benchmarked nationally and internationally for energy use per unit of production?
- When was the last time you had a thorough, independent assessment of your site energy use?

Our chemical and energy engineers can analyse the thermochemical conditions of your process for optimum efficiency.

SUBSTANTIAL COST SAVINGS

Many companies have implemented energy efficiency measures that have saved thousands and even millions of dollars in their annual expenditure. Earth Systems can help you use energy more efficiently. All our energy audits are conducted to international standards by qualified engineers. A Strategic Energy Assessment or Energy Audit can be the first step to lasting cost reductions.



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