

smart
consult

SOLAR - EPC - ANALYSIS

Case Study

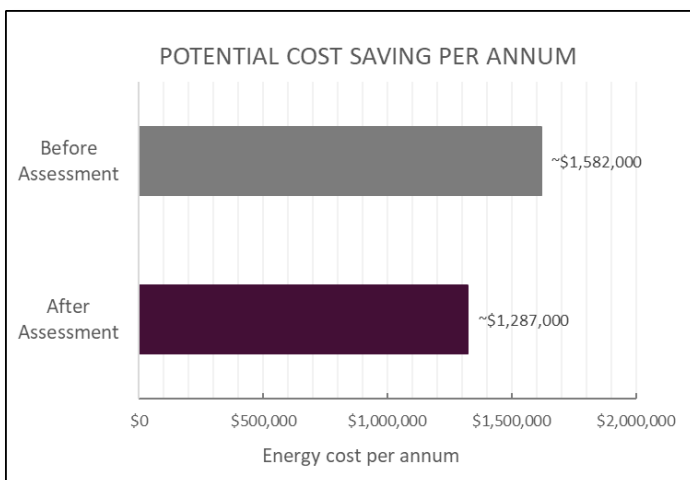
OUR VISION

SmartConsult was founded in 1993 and over time has become a leading energy management, analytical consultancy, and installation services firm. Our core focus is reducing our client's energy and infrastructure costs by recommending and implementing tailored strategies/solutions for all sizes of business and government entities. Our core values are geared towards a sustainable future with a passion for renewable energy and integrated energy reduction technologies.

Business energy consulting: How it works



CASE STUDY | FEDERAL GOVERNMENT AGENCY



Energy management and consumption analysis are key tools to cost and energy savings for any industry building. When regarding a company with multiple sites, such as a Federal Government Agency, energy production and consumption analysis can result in significant savings. SmartConsult have been commissioned by the Federal Government Agency to carry out energy assessments including an in-depth review of electricity and gas charges as well as a solar performances assessment of 55 sites across states in Australia. We are working towards

achieving more than a 20% reduction in costs overall. We are in the process of securing new electricity rates for the client and savings of approximately \$295,000 per annum on an estimated yearly expenditure of over \$1.5 million.

QUICK OVERVIEW

Energy	Annual Cost Before	Cost per kWh Before	Saving	Annual Cost After	Cost per kWh After	Percentage Saving
Electricity	~\$1,500,000	~\$0.2782	~\$287,000	~\$1,213,000	~\$0.2263	~19%

Energy	Annual Cost Before	Saving	Annual Cost After
Gas	~\$82,000	~\$8,000	~\$74,000

PROCESS OVERVIEW

- Collated and sorted energy data from 50+ sites.
- Classified the information provided into large and small systems on a per DNSP (Distributed Network Service Provider) basis.
- Competitive tender on large sites where possible.
- Analysed the large site network tariffs to ensure most economic.
- Analysed the small site tariffs to confirm most economic and retendered in the SME (Small and Medium-sized Enterprises) market.
- Assessed all 50+ sites for potential solar system installation and for pre-existing solar systems.
- Tabulated potential savings and presented results to client.

PROJECT EXECUTION

- Liaison with client to ensure savings are sufficient for implementation.
- Finalise new power purchase contracts with retailers (both SME and large market).
- Change the DNSP tariffs where required.
- Audit and ensure all changes have been finalised.
- Confirm with client once implemented.

ONGOING SERVICE

- Continual energy and data management.
- Monitor and compare against projected analysis.
- Monthly energy assessment report to client.