Electrification for commercial and industrial customers

Essential Energy

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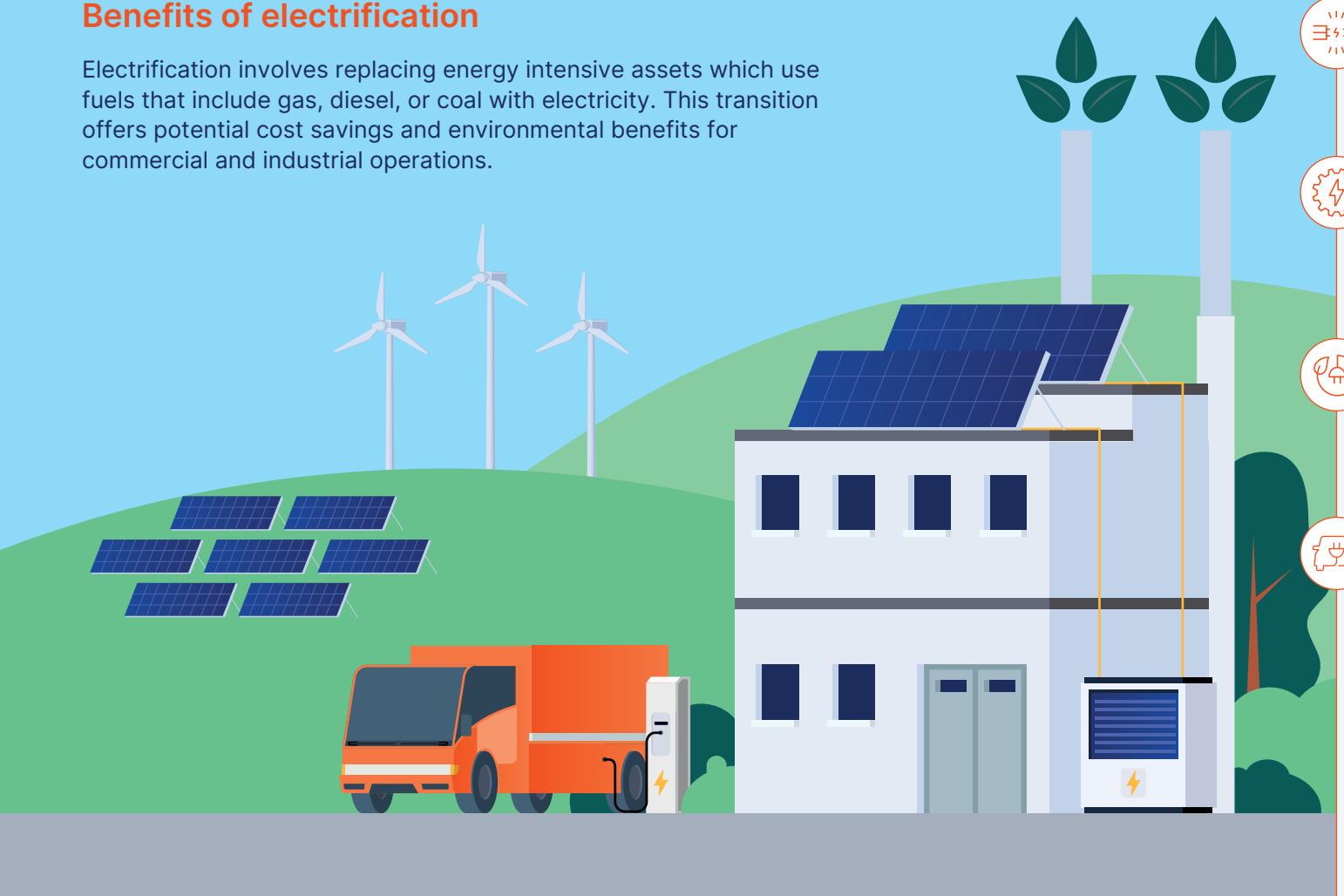
Enhance your business' energy use and sustainability

Are you looking to reduce your business's emissions and improve energy efficiency? Electrification could be the key to achieving these goals. Electrifying your assets that rely on gas, diesel, or coal, will help your business achieve significant environmental benefits and unlock potential cost savings.

Benefits of electrification

Electrification involves replacing energy intensive assets which use fuels that include gas, diesel, or coal with electricity. This transition offers potential cost savings and environmental benefits for commercial and industrial operations.



Achieve greater energy efficiency

Before electrifying machines or processes, ensure your operations are energy efficient. Identify energy-saving opportunities, upgrade energy-intensive assets, and develop an electrification plan tailored to your needs.

Processing and manufacturing improvements

Electrification can optimise your processing and manufacturing systems. Upgrading to electric alternatives can enhance efficiency and reduce energy consumption.

Improve environmental performance

Navigating and quantifying the possible environmental impact of a project can be complex. Access trusted resources from government websites, industry associations, consultants and Essential Energy's experts to help you meet and quantify your environmental goals.

Vehicle and infrastructure gains

Your business can play a part in accelerating the transition away from petrol or diesel to electric vehicles (EVs). You can access information about the transition to electric vehicles through the NSW Government's EV Strategy, which is increasing access to charging stations in regional, rural, and remote areas, overcoming barriers to EV adoption. Investigate whether your business can collaborate or learn from councils, fleet managers, other businesses, and charge-point operators to accelerate the availability of charging stations and the uptake of electric vehicles.

Preparing for electrification

You don’t have to make the transition all at once. For example:

First steps: **Develop a plan** Start by creating an electrification plan tailored to your business needs. Consider the lifecycle costs of your assets, including upfront investment, operational costs, and potential long-term savings.

Within one to two years: **Seek financial support** Explore potential rebates, grants, and financing options to make electrification more affordable. Federal and State government programs may offer financial assistance to support your energy transition.

Within two to three years: **Implement quick wins** Identify and implement quick wins to improve energy efficiency. Ensure new and replacement equipment is chosen with sustainability in mind, considering installation costs, lifecycle costs, and environmental impacts.

Following years: **Upgrade larger assets** Plan for the transition of larger assets and equipment over time. This may include complex systems like heating, cooling, and energy storage solutions.

Understand your energy consumption

As part of your electrification journey, we’ll help you identify your detailed needs and how to transition to electric options. We’ll assist you in understanding your energy use, ways to minimise business disruption and develop your electrification plan.

Electrify your commercial or industrial site

Commercial and industrial equipment: electrify energy-intensive equipment like boilers, furnaces, and machinery with electrode boilers or electric thermal storage units to achieve long-term savings.

Energy management: automate energy management with timers, smart lighting, and programmable thermostats. Transition to energy-efficient LEDs and install motion sensors to save power.

Electric vehicles: plan for EV charging requirements and consider site transport needs. Determine the appropriate charging profiles and types for your fleet.

Hot water: optimise energy efficiency with electric alternatives for hot water systems, for example using heat pumps.

Heating and cooling: use commercial and industrial heat pumps to improve energy efficiency in boiler rooms, kitchens, and refrigeration solutions.

Renewables and storage solutions: incorporate onsite power generation and storage solutions, such as solar systems and battery storage, into your operational goals.

Cooking and food preparation: choose energy-efficient electric commercial kitchen equipment, considering compatibility, power requirements, and maintenance needs.