

Ecologiq – Purposely greener infrastructure

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Abstract

Ecologiq is a platform for Victorian infrastructure workers who desire to do their jobs in a more environmentally friendly way. Through the way we lead and operate, our circular economy approach makes sustainably-built projects the new normal. Victoria's transportation infrastructure boom is a once-in-a-lifetime opportunity to produce beneficial outcomes and contribute to garbage cleanup. Ecologiq aims to repurpose the Victorian transportation infrastructure business for a more environmentally friendly purpose. More waste materials can be recycled, repaired, and reused in our projects, and all of our new transportation infrastructure can be developed responsibly. We'll look into and put to the test how we may incorporate waste products into our daily work routines. In our flagship initiatives, we will do research, innovate, share expertise, and promote these applications. We'll align our environmental and sustainability standards with industry-leading norms, then push those criteria even higher. This campaign will bring together the government, businesses, institutions, and anybody else who wants to be a part of an era-defining push to make world-class sustainable practises the new normal.

The circular economy, which focuses on repurposing trash, will become our new standard and represent our bolder, more environmentally conscious mission.

We try to minimise the quantity of trees and other vegetation removed inside construction zones in our projects, in addition to following all criteria under relevant Victorian and Australian legislation. We enlist the help of skilled ecologists and arborists to ensure that any important species is preserved and conserved. During construction, 'no-go zones' are fenced off to safeguard trees and delicate species. We collaborate with the community and use ecologically conscious design and construction practises to save as many trees as possible. When a tree must be cut down, we will explore for ways to repurpose the wood for environmental and community projects.

Soil management and treatment is a necessary aspect of the construction process. Victoria's Big Build manages construction sites responsibly to keep communities healthy and the environment safe. Qualified specialists will test the soil and design a management plan throughout the planning phase. The following substances are typically discovered in excavated soil: naturally occurring heavy metals, such as arsenic, per- and polyfluoroalkyl substances (PFAS), a group of chemicals used in manufacturing, asbestos fibres.

All soil handled and removed from the site is managed in accordance with the Environment Protection Authority (EPA) Victoria's strict regulations.

This work is partly presented at [7th International Conference on Recycling and Waste Management Melbourne, Australia](#)