

Economic Recovery and a Net Zero Carbon Economy

Investing in more efficient and more comfortable buildings will benefit people, the environment and the economy. LED lighting and digital controls have a major part to play in best practice energy efficient buildings, and in New Zealand's post COVID-19 economic recovery and net zero carbon goals.

The crisis with the coronavirus pandemic is subsiding, and attention is now on recovery from the damage to the New Zealand economy. We have some of the lowest performing building stock in the developed world and it is a priority to improve building efficiency. The strategy to recover must have a "better than before" agenda with tangible actions towards a net zero carbon economy. Smart renovation of our aged building stock will reduce energy demand and create grassroots jobs and economic well-being.

EFFICIENT LIGHTING IN NZ

Over the last two decades, improved fluorescent lighting technologies have been responsible for major reductions in energy consumption in New Zealand buildings. Today, the most effective and efficient lighting is delivered by well-designed LED luminaires combined with smart digital controls, allowing even greater energy and financial savings.

SMART LIGHTING POST COVID-19

LED lighting is highly efficient, with 60+% energy savings generally achievable. For commercial buildings, the addition of smart controls can increase this by an additional 50+%. Retrofit Bluetooth wireless technologies make it possible to harness



this potential and to deliver greater building efficiency, along with bankable business cases.

LIGHTING FOR HEALTH AND WELLBEING

Good lighting supports the health, wellbeing, and productivity of humans by combining the visual, biological, and emotional cues of light. Good lighting, the "right light, at the right place and the right time" reinforces stable human circadian sleep-wake cycles by adopting smart digital lighting systems that are adaptive, colour tuneable and personally controllable.

STANDARDS, REGULATIONS, CLIMATE CHANGE

The New Zealand Building Code for commercial building energy efficiency includes lighting minimum performance requirements that are well below those in many developed countries and are an ineffectual motivator for improved efficiency. LCNZ is striving to push government to update building energy regulation based on new ISO energy standards, combined with initiatives to renovate commercial building stock. This would stimulate post COVID-19 economic recovery and tangibly advance New Zealand's climate change ambitions.

Lighting Council New Zealand is the industry association for lighting manufacturing, importing, and distribution companies in New Zealand, and associated lighting industry participants. www.lightingcouncil.org.nz

LIGHTING COUNCIL NEW ZEALAND FULL MEMBERS

