

## Load Managed EV Charging

Join the Engineering NZ Electrical Engineering Group for a presentation by Jonny Parker, CEO of Thundergrid sharing his knowledge about

### LOAD MANAGED EV CHARGING

#### What to expect

Thundergrid are electric vehicle charging specialists, delivering end-to-end charging solutions that ease the pressure on homes, businesses and the power grid.

With a vision to removing barriers to electric vehicle adoption, Thundergrid recognised that transitioning to electric transport could become problematic without considering the collective impact on the power system.

The team developed, tested and implemented technologies like dynamic load management operating both locally and via the cloud. This has been deployed across huge clusters of chargers without compromising the electricity on site or needing costly infrastructure upgrades on the grid.

Dynamic Load Management is a system used to optimise the distribution of electrical power in environments with multiple EV chargers. It ensures that the total energy demand is balanced and efficiently allocated across all chargers, preventing overloading the electrical infrastructure. By adjusting charging rates based on available capacity, Dynamic Load Management can prioritise charging for specific vehicles, manage peak demand times, and help reduce energy costs. This system is especially beneficial in locations with high EV usage, such as commercial areas, as it ensures reliable power delivery without straining the grid.

Rapidly evolving technologies include EV charging supported by 'Battery Energy Storage Systems' (BESS), 'Megawatt' charging stations for heavy vehicles and 'Vehicle-to-Grid' (V2G) technology. V2G can enhance grid resilience by providing a decentralised and flexible energy resource. During power outages or grid disruptions, EVs connected to the grid can act as mobile energy sources, discharging stored electricity back into the grid or directly powering local homes and businesses.

Thundergrid will showcase new solutions to remove barriers to EV adoption and empower smart EV charging.

In addition to our Electrical Engineering Group members, we extend the invitation to all interested parties.

**Key Learning Outcomes:**

- AC & DC Chargers – Areas of application and benefits
- Why & How: EV infrastructure with Dynamic Load Management
- Future technologies & Megawatt charging stations

Following the presentation and hands-on learning with some EV chargers there will be the opportunity for a Q&A and a mutual exchange of learnings.

This presentation is available to attend in person only and is Wellington based at the Thundergrid headquarters, 31 Adelaide Road, Mt Cook.

Doors open at 5:00 pm for drinks and nibbles with the presentation starting at 5:30pm sharp.

Estimated end: 7:00 pm

## Presenter Bio:

**Jonny Parker, CEO, Thundergrid a Landis+Gyr Company, Australia & New Zealand**

### **Where charging meets social consciousness**

Jonny's passion for the grid was born from wanting to remove barriers to a collective goal, becoming sustainable with moving to EV.

Thundergrid today is the services provider of Landis+Gyr EV solutions, enabling a seamless adoption of e-mobility across Australia and New Zealand since 2017.

In his current role, Jonny, is the CEO and Co-Founder of Thundergrid based in Wellington, leading the organisation to enable e.g. fleet managers, businesses, apartments, heavy transport or transformative commercial leaders in both private and public sector to electrify their organisations without compromising on the nation's electricity grid.

On a daily basis, Jonny and his teamwork behind the scenes to deliver end-to-end EV solutions to their customers including to plan, install, manage charging infrastructure and billing services.

Jonny has a strong background in sustainability and energy efficiency management and has a passion for facilitating change, designing out fossil fuels and clean technology innovation. Combined with Landis+Gyr's 128 years of experience in energy and flexibility management, Thundergrid is accelerating the EV transition in ANZ.

We believe that the future of energy management will go beyond electric vehicle charging, to a world where all energy use and supply will be connected, controllable, and will collectively contribute to sustainable living. Thundergrid and Landis+Gyr are showing the way.