

Understanding Electric Bus Charging Costs (Jargon Buster)

If your electric buses are up and running, but energy costs are exceeding your forecast, the issue is usually not the vehicles or chargers, but how charging is managed. Here, we break down the charge management concepts that most directly affect electric bus energy costs, explaining them in clear practical terms for operators, without the jargon.

Peak Shaving

Peak shaving limits how much power your depot draws at any moment. Without it, all buses charging together creates demand spikes that increase monthly demand charges. With peak shaving, charging is staggered automatically so peak limits are not exceeded.

Load Balancing

Load balancing distributes available grid power across all chargers in real time. Without it, some chargers pull full power while others wait idle, making the grid connection appear full. With it, more buses are charged using the same grid capacity.

Dynamic Charging

Dynamic charging adjusts charging power based on tariff windows and depot demand. Instead of fixed charging profiles, dynamic charging shifts load into cheaper periods automatically lowering the average cost per kWh.

Scheduling Integration

Scheduling integration connects charging plans to duty schedules. If every bus charges to 100% right after returning, it often means charging during more expensive periods. By delaying charging for buses that leave later, scheduling integration helps reduce the amount of energy bought at higher prices.



What This Means for Your Depot

You don't need to buy new buses, upgrade chargers, or change your grid connection to lower your energy costs. Software that manages how and when charging happens can reduce your energy bills by up to 30%, giving you a quick return on investment and boosting your bottom line.

Approaching Contract Renewal?

If your depot is nearing renewal with a turnkey electrification provider, you can plan for an alternative which allows you to retain existing infrastructure and introduce an independent charge management system. This gives you direct control over the charging strategy and energy spend.

About Tenix

Tenix operates as an independent charge management layer that comes on top of existing chargers and vehicles. It enables peak shaving, load balancing, scheduling integration, and dynamic charging without replacing infrastructure.

Brand Agnostic

Works with any charger, vehicle or fleet system

Proven Reliability

Trusted by 1 in 2 electric buses in Norway

Fleet Experts

Deep operational know how with a specialist focus

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