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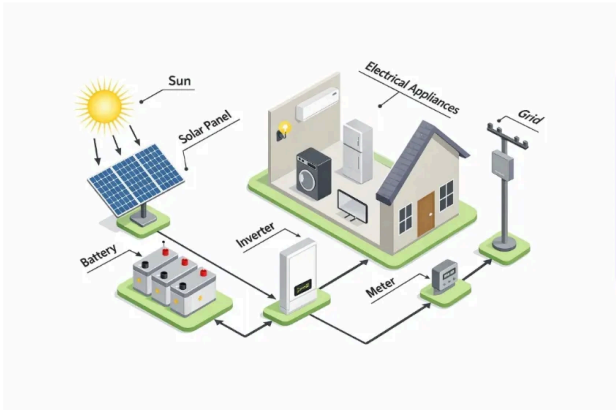

SmartFlex: How EV charging is becoming a grid asset



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Blog (<https://electricmiles.com/category/blog/>)



What is Smartflex:
How it helps you to earn money

As EV adoption accelerates across the UK, charging is no longer just about plugging in and taking power. At scale, EV charging is becoming part of how the electricity grid is balanced, protected, and optimised.

This is where SmartFlex by Electric Miles comes in.

What is SmartFlex?

SmartFlex is Electric Miles' grid flexibility engine that turns EV chargers into active, flexible grid resources.

Instead of EVs charging whenever they're plugged in, SmartFlex intelligently shifts *when* charging happens without impacting driver needs to support the grid during peak demand. In return, drivers, fleets, and businesses are rewarded for participating.

At its core, SmartFlex connects:

- EV chargers
- Energy tariffs
- Grid signals
- Payments and rewards



into a single, automated flexibility platform.

Why grid flexibility matters now

EV charging demand is growing fast especially during peak periods like winter evenings. Traditionally, the solution has been expensive grid upgrades: new substations, cables, and long lead times.

Grid flexibility offers a smarter alternative.

By adjusting charging times within agreed limits, flexible assets like EV chargers help:

- Reduce peak strain on local networks
- Avoid or delay costly infrastructure upgrades
- Keep charging reliable as EV fleets and depots scale

This approach is known as Demand Side Response (DSR) and EVs are one of the most powerful assets within it.

How SmartFlex works (simply)

1. Opt in

Drivers, fleets, or site owners opt into SmartFlex and set their normal charging preferences (for example, "ready by 7am").

2. Aggregation at scale

Thousands of chargers are connected through Electric Miles and grouped into a virtual power plant.

3. Grid signals

UK network operators like UK Power Networks (UKPN) and SP Energy Networks (SPEN) request flexibility during constrained periods.

4. Automated response

SmartFlex automatically shifts, slows, or reschedules charging always within user-defined limits.

5. Rewards and revenue

The grid pays for this flexibility, and Electric Miles returns value to participants through cashback, incentives, or commercial savings.



Proven at UK scale

SmartFlex is already operating across the UK, delivering flexibility reliably and automatically:

- 16,000+ SmartFlex events dispatched
- 11,000+ flexibility responses delivered across multiple DSOs
- 1,000+ automated events in a single winter month
- Recognised by network operators as accurate and dependable at scale
- Shortlisted for Software of the Year – ECN Awards 2025

Who SmartFlex is for

EV drivers

- No lifestyle change
- Automatic smart charging
- Earn rewards for supporting the grid

Fleets, depots, and workplaces

- Reduce peak demand and energy costs
- Electrify without oversizing grid connections
- Unlock new revenue from flexibility markets

Networks and infrastructure teams

- Access predictable, scalable flexibility
- Manage local constraints without heavy reinforcement
- Work with a proven, automated platform

EV charging is becoming part of the energy system

EV chargers are no longer passive loads. When managed intelligently, they become flexible energy assets supporting the grid while delivering real financial value to users.

SmartFlex is how Electric Miles makes that possible.



Ready to turn EV charging into a smarter energy asset?

Download the Electric Miles Smart Charging App to connect your charger and join SmartFlex, or book a demo with Electric Miles to see how SmartFlex works for fleets, depots, and enterprise EV infrastructure.

Ready to Electrify Smarter?

We provide everything you need – from certified chargers and top-tier installers to cutting-edge software that reduces energy costs and boosts performance. Book a call with our team to see how Electric Miles can transform your EV charging operations.

[Book a Call](#)



SMART ENERGY MANAGEMENT

Product Guides

Electric Miles Guide(<https://electricmiles.com/wp-content/uploads/2025/07/Normal-EM-Guide.pdf>)

Installer Miles Guide(<https://electricmiles.com/wp-content/uploads/2025/07/Normal-IM-Guide-.pdf>)

Solution for Business(<https://electricmiles.com/wp-content/uploads/2025/07/Solution-for-Business.pdf>)



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