

Footroom / Demand turn-up



Britain's first fully automated system for making use of excess wind energy.

Renewable energy produced by wind turbines is a valuable national commodity, but National Grid often has to curtail active wind farms in response to system constraints or periods of low demand. This incurs considerable and unnecessary cost.

Footroom, or demand turn-up, provides a cost-effective alternative to turning off wind farms when there is insufficient demand from the grid. Footroom benefits organisations that are able to increase consumption or reduce generation when wind output is high.

Generators receive income from Flexitricity for curtailing output and consuming grid-supplied electricity.

Flexible loads benefit by making bona fide increases in consumption to increase output or to utilise storage or thermal inertia.



Participation is tailored to suit site availability

Footroom provides business customers and small generators with the ability to:

- Earn new revenue
- Help National Grid increase the use of available renewable energy
- Participate in conjunction with all other Flexitricity balancing and peak management services

Operational continuity

Flexitricity ensures that the core activities of participating sites take priority at all times. This is ensured by:

- > Defensive engineering to prevent Footroom operation if the site is not able to respond
- > All site works carried out by site approved contractors
- > Remote monitoring of the site at all times by Flexitricity to ensure readiness for Footroom participation and improve asset reliability
- > Installation of “inhibit” controls, which allow site staff to opt out of Flexitricity operation at any time

Suitable sites for Footroom:

Turn down

- Combined heat and power
- Anaerobic digestion
- Small hydro generators with reservoirs

Turn up

- Water pumping stations
- Certain manufacturing loads
- Cold storage
- Data centre cooling

Key parameters:

- > Sites need to be able to respond within **30 mins**
- > Footroom calls are expected to last **1-3 hours**
- > Requirement of approx. **400 hours** every year
- > Loads of **>250kW** or larger are preferred
- > Greatest need for Footroom is between **1am to 7am**

You can kick-start the engagement process by calling Flexitricity on **0131 221 8100**.