

Local Government, Housing and Planning Committee
Tuesday 10 December 2024
34th Meeting, 2024 (Session 6)

Note by the Clerk on Building (Scotland) Amendment (No. 2) Regulations 2024 (SSI 2024/327)

Overview

1. At this meeting, the Committee will consider the following Scottish Statutory Instrument (SSI), which is subject to annulment by resolution of the Parliament until 17 December. The Committee is invited to consider the instrument and decide what, if any, recommendations to make.
2. More information about the instrument is summarised below:

Title of instrument: [Building \(Scotland\) Amendment \(No. 2\) Regulations 2024 \(2024/327\)](#)

Laid under: [Building \(Scotland\) Act 2003](#)

Laid on: 8 November 2024

Procedure: Negative

Deadline for committee consideration: 16 December 2024

Deadline for Chamber consideration: 17 December 2024

Commencement: 1 January 2025

Procedure

3. Under the negative procedure, an instrument is laid after it is made, and is subject to annulment by resolution of the Parliament for a period of 40 days beginning on the day it is laid.
4. Once laid, the instrument is referred to:
 - the Delegated Powers and Law Reform (DPLR) Committee, for scrutiny on various technical grounds, and
 - a lead committee, whose remit includes the subject-matter of the instrument, for scrutiny on policy grounds.
5. Any MSP may propose, by motion, that the lead committee recommend annulment of the instrument. If such a motion is lodged, it must be debated at a

meeting of the Committee, and the Committee must then report to the Parliament (by the advisory deadline referred to above).

6. If there is no motion recommending annulment, the lead committee is not required to report on the instrument.

Delegated Powers and Law Reform Committee consideration

7. The DPLR Committee considered the instrument on 19 November 2024 and [reported on it on 19 November 2024](#). The DPLR Committee made no recommendations in relation to the instrument.

Purpose of the instrument

8. The [Policy Note](#) states that “the regulatory amendment will extend the limitations included in the original New Build Heat Standard (NBHS). The extended limitations will serve to permit the use of bioenergy and peat systems in new buildings, as well as in existing buildings undertaking certain conversion works covered by the Standard, for space heating, cooling and hot water demand. The amendment will also take secondary heating systems outside the scope of the Standard – meaning any heating appliance will be permitted if used to provide secondary heating.”
9. The Policy Note further explains that the New Build Heat Standard was introduced in April 2024 with the intention of “eliminating greenhouse gas emissions associated with delivering space heating, hot water, and cooling in new buildings, as well as conversions of existing buildings under specific circumstances.” However, following its introduction, “significant concerns were raised regarding the resilience of rural and island communities during periods of extreme weather and other events which may cause the failure of the main heating system.”
10. Following a review of the NBHS the Scottish Government is seeking to amend it to “address concerns on the resilience of communities during periods of extreme weather (and other events which may cause the failure of the main heating system), address concerns on fuel poverty, and respect cultural practices.”
11. The Policy Note also includes a summary of consultation undertaken on the instrument, impact assessments carried out, and the anticipated financial effects, with the overall impact on business being viewed as “positive” .

Written submissions

12. The Acting Minister for Climate Action [wrote to the Committee on 8 November](#) to advise of his intention to “permit the use of bioenergy and peat heating systems in

new buildings, in recognition of the concerns raised following the introduction of the NBHS in April 2024.”

13. However, the Committee also received correspondence from medical bodies raising concerns about the potential impact of the regulations on human health.
14. The Committee then invited relevant stakeholder organisations to provide written comments on the Regulations so it could better understand the extent of the potential health impact of the Regulations.
15. Four written submissions were received from the following organisations and are attached as an Annexe to this paper—
 - RCGP Scotland;
 - Short-Term Working Group on Air Pollution of the Royal College of Physicians of Edinburgh;
 - UK Faculty of Public Health
 - UK Health Alliance on Climate Change
16. The submissions raised concerns that the amendment would have negative impacts, particularly on indoor air quality, and may cause harm due to damage to the lungs, heart, brain, and to pregnant women and their unborn children.
17. The UK Faculty of Public Health pointed out that “domestic wood burning is the largest source of fine particulate matter (PM2.5) in the UK, accounting for 22% of emissions—surpassing even transportation. Exposure to PM2.5 is linked to severe health issues, including respiratory and cardiovascular diseases, cancer, and developmental problems in children. It also stated that wood-burning stoves are more expensive than central heating options and produce more harmful carbon dioxide (CO₂) emissions compared to other heating methods.
18. Respondents also noted that, in general, the use of wood burners tends to be more common in affluent households, meaning air pollutants can be generated by relatively wealthier households and passed on to those who are more deprived, particularly in more densely populated areas.
19. However, respondents also recognised the energy challenges faced by some residents of Scotland’s more remote and rural communities and on that basis, suggested that the existing ban on bioenergy and peat heating systems should remain in place with exceptions permitted for rural and island communities. For example, the short-term working group of the RCPE requested that “very serious consideration be giving to reintroducing the ban but adding exceptions to rural areas where power cuts may occur or where homeowners are off the grid.”

Committee consideration

20. At the time of writing, no motion recommending annulment has been lodged.
21. Members are invited to consider the instrument and decide whether there are any points they wish to raise. If there are, options include:
- seeking further information from the Scottish Government (and/or other stakeholders) through correspondence, and/or
 - inviting the Minister (and/or other stakeholders) to attend a future meeting to give evidence on the instrument.
22. It would then be for the Committee, at a future meeting, to consider the additional information gathered and decide whether to make recommendations in relation to the instrument.
23. If members have no points to raise, the Committee should note the instrument (that is, agree that it has no recommendations to make).
24. However, should a motion recommending annulment be lodged later in the 40-day period, it may be necessary for the Committee to consider the instrument again.
25. Members should note that since the 40-day date/deadline for chamber consideration falls on the same date as the Committee's next scheduled meeting on 17 December, it may be necessary to hold an additional meeting to give further consideration to the Regulations and any potential motion recommending annulment should the need arise.

**Clerks to the Committee
December 2024**

Annexe: Written submissions

Building Regulations (Scotland) Amendment (No. 2) Regulations 2024, RCGP Scotland Response

RCGP Scotland welcomes the opportunity to provide feedback on the negative Scottish Statutory Instrument 'Building Regulations (Scotland) Amendment (No. 2) Regulations 2024'. As the membership body for general practitioners in Scotland, we exist to promote and maintain the highest standards of patient care.

We note that the review of the New Build Heat Standard was announced by the then Minister for Climate Action, Gillian Martin MSP, in response to concerns from rural and island communities regarding resilience during extreme weather events which may lead to the failure of main heating systems.

Scotland has some of the cleanest air globally and some of the most ambitious air quality targets in Europe. However, air pollution in Scotland remains above the recommended World Health Organisation level and we believe that further action is needed to ensure Scotland's air quality meets the WHO's recommendations and to protect the Scottish population's health.

RCGP Scotland is concerned that indoor air pollution is a significant issue and may cause harm to an individual's health due to damage to the lungs, heart, brain, and to pregnant women and their unborn children.

It is not just the user of bioenergy or peat heating systems whose health is damaged but, depending upon proximity, may also have a negative effect upon their neighbours too. We note that in general the use of wood burners tends to be more common in affluent households, meaning air pollutants can be generated by relatively wealthier households and passed on to those who are more deprived, exacerbating Scotland's already stark health inequality levels. This is particularly the case in urban areas where the density of housing is greater.

On 18 November, Dr Munro Stewart, RCGP Scotland's Joint Clinician Representative for Climate and Sustainability signed a letter from the Royal College of Physicians Edinburgh (RCPE) to the Local Government, Housing and Planning Committee, setting out our concerns.

Having said this, we are accepting of multiple issues faced by island and rural communities that are identified by stakeholders and are set out within the "New Build Heat Standard: Island Communities Impact Assessment Addendum October 2024".

We continue to ask the Local Government, Housing and Planning Committee to reconsider the Scottish Statutory Instrument 'Building Regulations (Scotland) Amendment (No. 2) Regulations 2024' so that the ban on bioenergy and peat heating systems remains in place with exceptions allowed for rural and island communities.

Letter from the Short-Term Working Group on Air Pollution of the Royal College of Physicians of Edinburgh on wood burning, 18 November 2024

Scotland has some of the cleanest air globally, along with some of the most stringent air quality objectives in Europe (1, 2). However, air pollution remains above World Health Organization guidelines and further reducing pollutants is key to maximising the health gains. Scottish road transport linked air pollution has improved significantly thanks to these regulations (3). However, **indoor** sources of air pollution is a significant contributor to poor air quality which is not adequately addressed in Scotland. This will in part be managed by the 'New Build Standard' being brought before your committee.

We understand that the current proposals have been discussed with many stakeholders, but as medical professionals with a significant interest in preventable illness, we hope you will allow the Royal College of Physicians' Edinburgh, the Royal College of General Practitioners, and the Royal College of Paediatrics and Child Health to provide further evidence-based concerns on the health effects of wood burning and our concerns about the removal of wood-burning stoves, multifuel stoves, and pellet stoves from the fuels from the regulations on heating in new builds. being banned in new builds, such that they will be freely available in new properties across Scotland, which would as a consequence markedly reduce air quality.

The burning of wood, even in so called 'eco stoves', produces both noxious gases and airborne particulate matter. Emissions from wood burning also contain greenhouse gases such as nitrogen dioxide and methane, the latter globally is responsible for 30% of the current temperature rise.

However, it is the particulate matter, especially particulate matter with a size of less than 2.5 micrometers in diameter ($PM_{2.5}$) that is especially harmful to health, passing through the nose and lungs into the blood stream leading to not only lung disease, but worsening heart disease (including triggering heart attack (4)), stroke, dementia, diabetes, amputation (5), cancer, and permanently damaging organ development of our children (6). Further there is a link between poor air quality in pregnancy and development of autism (7). Gestation, infancy, and early childhood are vulnerable times because the child's body is developing rapidly and has immature systems which are vulnerable to damage by inhaled toxins. There is a correlation between areas of high deprivation and poor air quality in both children (8) and adults, exacerbating pre-existing health inequalities.

Wood burning in the UK now produces more $PM_{2.5}$ than transport, and domestic burning is estimated to cause almost 40% of $PM_{2.5}$ pollution in the UK (9). Scientists have found that the concentrations of $PM_{2.5}$ in the home was almost 200% higher than normal when a wood burning stove was in use. Concentrations can reach up to 400% higher after the stove door was opened to add more fuel. The researchers named these 'flooding events'

Studies from Scandinavia by the European Environmental Bureau (10) show that even so called 'Ecodesign- compliant' wood burning stove can release the same amount of particulate matter per hour as 18 newer diesel cars or six modern heavy

goods vehicles. This is alarming given these invisible but extremely harmful pollutants will be released into peoples' living rooms.

It is not just the wood burner and their family whose health is damaged but that of their neighbours too. A study from Imperial College London (11) found "hotspots" of outdoor pollution where there were high concentrations of wood burning stoves, showing that particulate pollution from stoves can escape to pollute outside air, settling over a neighbourhood affecting a wide area. Because wood burners tend to be more common in affluent households, pollutants can be passed on to those with a lesser means to live a healthy life. More worrying, the air pollutants could reach those with established disease who chose not to have wood burners could be forced to breathe the noxious air from their neighbours.

We understand that the ban on these heating appliances is to be permanently halted after concerns were raised that a ban on wood and peat burners would have a negative impact on people living in rural areas. The original legislation prohibited these installations, except in specific exemption cases such as when they were deemed as 'emergency heating'. We respectfully request that very serious consideration be given to reintroducing the ban but adding exceptions to rural areas where power cuts may occur or where home-owners are off the grid. Most harm comes from wood burning in a packed neighbourhoods such as in cities and so thoughtful exemption in rural areas could be easily obtained.

Further, as gas boiler emissions of PM_{2.5} are almost eight times less than the figure for the best Danish wood stove, we anticipate that oil and gas boiler makers will rightly question their ban, as the premise of these regulations is to lessen emissions, which a gas boiler would do more effectively than a wood stove. "Ecodesign" wood burning stoves produce 450 times more toxic air pollution than gas central heating, according to new data published in a report from Prof Chris Whitty, the Chief Medical Officer for England (12, 13).

We cannot underestimate the major health harms from wood smoke, from serious cardiovascular diseases, through cancer (wood smoke is linked to 40% of lung cancer in non-smoking women (14)), to asthma (15) and chronic lung diseases. Further the hugely damaging effects these particles have in pregnancy and on childhood are major, with increased still birth, death before the age of 2 years, permanent poor health in the child in later life, and effects on learning and behaviour (16).

The membership of these three Royal Colleges reflects a majority of doctors in Scotland. Such significant concern has been raised by members, that we write today asking that the committee reverse this amendment, with significant exceptions allowed as above for rural areas, for the sake of Scotland's health. Ends.

RCPE Short-Term Working Group on Air Pollution membership:

Co-Leads

Prof Andrew Elder, Consultant Physician, NHS Fife, Honorary Professor, University of Edinburgh and President of the Royal College of Physicians, Edinburgh.

Prof Jill JF Belch, Head of the Institute of Cardiovascular Research, Professor of Vascular Medicine & Honorary Consultant Physician NHS Tayside.

Members

Dr Sarah Bartlett, SpR Stroke / Geriatric Medicine, Royal Infirmary of Edinburgh, NHS Lothian.

Ms Kerry Flinn, Former Investigator and Trainer for Scottish Public Services Ombudsman (SPSO) and member of the RCPE Lay Committee.

Dr Robert C Hughes, Clinical Research Fellow and member of Centre for Climate Change and Planetary Health Management Group, London School of Health and Tropical Medicine and adviser to the Clean Air Fund.

Dr Mark R. Miller, Reader in Air Pollution and Health, British Heart Foundation Centre for Cardiovascular Science, University of Edinburgh, UK.

Prof David Newby, BHF Duke of Edinburgh Chair of Cardiology, Deanery of Clinical Sciences, Centre for Cardiovascular Science, University of Edinburgh.

Dr Terry Quinn, Senior Clinical Lecturer at University of Glasgow, and Honorary Consultant Physician in Stroke, NHS Greater Glasgow.

Other signatories

Professor Stephen Turner, President of the Royal College of Paediatrics & Child Health, Consultant Paediatrician, Royal Aberdeen Children's Hospital.

Dr Munro Stewart, Joint clinician representative for Climate and Sustainability, RCGP Scotland.

Footnotes:

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UK Faculty of Public Health submission, 18 November 2024

I write to you as the President of the UK Faculty of Public Health.

The Faculty of Public Health, as part of the medical Royal College arrangements, is the standard-setting body for public health in the UK and professional home for over 5,000 members of the public health workforce. We advocate on key public health issues and have a strong mandate and responsibility to ensure that the essential functions, standards and resources of a robust public health system are maintained.

The Faculty of Public Health urges the Scottish Government to reconsider its decision to halt the ban on wood-burning stoves, multi-fuel stoves, and pellet stoves in urban new builds. Air pollution remains a major killer, and while Scotland is making progress in improving outdoor air quality, indoor air pollution remains a critical and overlooked issue. Allowing the widespread installation of wood burners risks undoing these gains and endangering public health and increasing economic burden.

[Health Impacts and Costs:](#)

Domestic wood burning is the largest source of fine particulate matter (PM2.5) in the UK, accounting for 22% of emissions—surpassing even transportation. Exposure to PM2.5 is linked to severe health issues, including respiratory and cardiovascular diseases, cancer, and developmental problems in children. Notably, "eco-design" stoves emit 450 times more PM2.5 than gas boilers, exacerbating urban air pollution and endangering public health. Even though wood burning produces only 6% of heat in the UK, it is associated with £0.9 billion in health-related damages.

Damage costs encompass asthma incidence, hospital admissions for respiratory issues, and even structural damage to buildings, representing a significant societal burden. These costs increase when damp or improperly prepared wood is used. Furthermore, wood burning produces high levels of carbon dioxide (CO₂) emissions and growing more trees does not offset this within a reasonable timeframe.

We understand the concerns about rural heating needs, but exemptions for emergency and off-grid use can be maintained without jeopardising urban air quality. Rural and urban settings face vastly different risks, and policy should reflect this. New builds present a unique opportunity to incorporate the cleanest option with practically zero emissions; electric stoves. The [2024 Lancet Countdown on Health and Climate Change policy brief](#) has called on the UK governments to “develop a framework to implement a just transition away from wood burning to clean fuels in urban and rural areas”. Reinstating the ban on wood burners in urban new builds would protect public health, reduce health inequalities, and align with Scotland’s leadership in air quality and climate action. We urge you to prioritise evidence-based decision-making and reverse this decision to safeguard Scotland’s future.

Yours sincerely,

Professor Kevin Fenton, President of the Faculty of Public Health

UK Health Alliance on Climate Change submission, 18 November 2024

I write to you as the Chair of the UK Health Alliance on Climate Change* to urge the Scottish Government to reconsider its decision to halt the ban on wood-burning stoves, multi-fuel stoves, and pellet stoves in urban new builds. While Scotland has made significant progress in improving outdoor air quality, indoor air pollution remains a critical and overlooked issue. Allowing the widespread installation of wood burners risks undoing these gains and endangering public health and increasing economic burden.

Health Impacts and Costs:

Domestic wood burning is the largest source of fine particulate matter (PM2.5) in the UK, accounting for 22% of emissions—surpassing even transportation. Exposure to PM2.5 is linked to severe health issues, including respiratory and cardiovascular diseases, cancer, and developmental problems in children. Notably, "ecodesign" stoves emit 450 times more PM2.5 than gas boilers, exacerbating urban air pollution and endangering public health. Even though wood burning produces only 6% of heat in the UK, it is associated with £0.9 billion in health-related damages.

The associated health damage costs to society are stark. For example:

- **A family of four** using an eco-stove with well-seasoned wood incurs **damage costs of £9,060 over 15 years** when **wood burners provide 80% of heat**.
- For an older couple in the same scenario, the cost is £8,171.

These costs skyrocket with inefficient use. A family of four using damp wood in an older stove faces damage costs of £39,243, while an older couple faces costs of £39,106. Damage costs encompass asthma incidence, hospital admissions for respiratory issues, and even structural damage to buildings, representing a significant societal burden.

Economic Impact:

Further, contrary to perceptions of cost-effectiveness, wood-burning stoves are more expensive than central heating options. Research indicates that using a wood burner for 20% of home heating incurs annual costs 24% higher (at £2,028 – £2,204 per year) than a gas boiler. For 80% usage, the costs are 47%–48% higher (at £2,433 – £2,614 per year). These figures highlight the financial disadvantages of wood burners compared to gas boilers and air-source heat pumps.

Environmental Concerns:

Wood burning is not an environmentally friendly form of heating. It produces more harmful carbon dioxide (CO₂) emissions compared to other heating methods. The

reabsorption of CO₂ by growing ecosystems takes years, decades, or even a century, depending on forest management and biomass sources. This delayed carbon offset undermines efforts to combat climate change.

While concerns about rural heating needs are valid, exemptions for emergency and off-grid use can be maintained without jeopardising urban air quality. Rural and urban settings face vastly different risks, and policy should reflect this. Gas boilers, with PM2.5 emissions nearly eight times lower than wood stoves, offer a far cleaner alternative. However, new builds present a unique opportunity to incorporate the cleanest option with practically zero emissions; electric stoves. The [2024 Lancet Countdown on Health and Climate Change policy brief](#) has called on the UK governments to “develop a framework to implement a just transition away from wood burning to clean fuels in urban and rural areas”. Reinstating the ban on wood burners in urban new builds would protect public health, reduce health inequalities, and align with Scotland’s leadership in air quality and climate action. We urge you to prioritise evidence-based decision-making and reverse this decision to safeguard Scotland’s future.

Kind regards,

Richard Smith CBE FMedSci

Chair, UK Health Alliance on Climate Change

**The UK Health Alliance on Climate Change is an alliance of 49 UK-based health organisations including Royal Colleges, journals, associations and societies representing more than one million health professionals, a significant proportion of the NHS workforce.*