

Change in the eligibility requirements for biomass fired appliances through the Federal Promotion for Efficient Buildings programme (BAFA)

The Federal Promotion for Efficient Buildings (BEG) relaunches the federal government’s energy-related building promotion in implementation of the Climate Protection Programme 2030 and the Federal Ministry of Economics and Climate Protection’s (BMWK) promotion strategy „Energy Efficiency and Heat from Renewable Energies“.

The BEG has replaced the existing programmes for the promotion of energy efficiency and renewable energies in the building sector - including the CO₂ Building Rehabilitation Programme (Energieeffizient Bauen und Sanieren programmes), the Heating Optimisation Programme (HZO), the Energy Efficiency Incentive Programme (APEE) and the Market Incentive Programme for the Use of Renewable Energies in the Heating Market (MAP).



What innovations does the amended federal subsidy for efficient buildings bring with it?

BIOMASS PRODUCT	PRODUCT STANDARD	PARAMETER	UNIT	OLD SPECIFICATIONS (UNTIL 31.12.2022)	NEW SPECIFICATIONS (FROM 01.01.2023)
Pellet or wood chip boiler (automatically fed)	EN 303-5	CO mass content	mg/m ³ ¹⁾	≤ 200 ²⁾	Requirements remain unchanged
		Particle mass content	mg/m ³ ¹⁾	≤ 250 ³⁾ ≤ 15 ²⁾	
		Heating efficiency or	%	≥ 90 ²⁾	-
		Seasonal space heating energy efficiency ns (=ETAs)	%	≥ 78	≥ 81
Wood log Gasification boiler (manually fed)	EN 303-5	CO mass content	mg/m ³ ¹⁾	≤ 200 ²⁾	Requirements remain unchanged
		Particle mass content	mg/m ³ ¹⁾	≤ 250 ³⁾ ≤ 15 ²⁾	
		Heating efficiency or	%	≥ 90 ²⁾	-
		Seasonal space heating energy efficiency ns (=ETAs)	%	≥ 78	≥ 81
Pellet stoves with Water pocket (automatically fed)	EN 14785	CO mass content	mg/m ³ ¹⁾	≤ 200 ²⁾	Requirements remain unchanged
		Particle mass content	mg/m ³ ¹⁾	≤ 250 ³⁾ ≤ 15 ²⁾	
		Firing efficiency or	%	≥ 91 ²⁾	-
		Seasonal space heating energy efficiency ns (=ETAs)	%	≥ 78	≥ 81
Subsidy share in relation to the complete system					Up to 20%

¹⁾ based on dry exhaust gas, normalised to 0°C, 1013 mbar, 13 vol.-% O₂

²⁾ Specification applies to operation under nominal load conditions

³⁾ Default value applies to operation under partial load conditions, if applicable

Existing essential requirements

- **Pellet or wood chip boilers as well as pellet stoves with water pockets (automatically fed)** must have output and combustion control as well as automatic ignition.
- **Wood log gasification boilers (manually fed)** must have output and combustion control (with temperature sensor behind the combustion chamber and/or lambda probe for measuring the O₂ content in the flue gas pipe or equivalent sensors).
- **Combination boiler for burning biomass pellets or wood chips and logs**, which are automatically and manually fed
 - must have power and firing control as well as automatic ignition for the automatically fed part of the system and
 - via a power and combustion control system (with temperature sensor downstream of the combustion chamber and/or lambda probe for measuring the O₂ content in the exhaust pipe or equivalent sensors)

Further requirements

- All eligible biomass heating systems must be equipped with a heat quantity display from 01 January 2023.
- There is no obligation to notify efficiency in the case of biomass plants.
- Downstream separators/filters
 - are still eligible for funding, but do not receive a bonus. They are subsidised by up to 20% within the complete system.
 - can be taken into account by means of mathematical proof (issued by a testing laboratory accredited according to DIN EN ISO/IEC 17025).

Subject of funding

Within the **framework of the Federal Promotion for Efficient Buildings - Individual Measures (BEG EM)**, biomass systems for heat generation (heating technology) continue to be eligible, among other things, as an individual measure in existing buildings for residential and non-residential buildings: The adjustment of the limit values as of 01.01.2023 for dust and the seasonal energy efficiency for eligible biomass systems is intended to make the devices cleaner and more efficient and thus make a further contribution to the climate policy goals of the Federal Government.

Range of services

The **DVGW Energy Test Laboratory** has all the accreditation and technical requirements to carry out type or supplementary tests on your biomass systems for heat generation. As a final service, a test report (in accordance with DIN EN ISO/IEC 17025) is issued in accordance with EN 303-5 (biomass boilers) or EN 14785 (pellet stoves with water pockets), which can be submitted to BAFA.

We also offer testing of downstream equipment, such as **particle separators (e.g. according to DIN SPEC 33999)**.

Take advantage of our expertise, our many years of experience and our technical potential to make your products future-proof. We will be happy to help you, just get in touch with us!