

VADEMECUM ON THE ECONOMIC AND FINANCIAL TOOLS USED IN THE ALPINE REGION FOR DOMESTIC HEATING SYSTEMS

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1. Biomass burning effects in the Alpine Region

The emission of particulate matter (PM) from the residential burning of biomass for space and water heating have a significant impact on air quality across Europe, especially in Alpine countries, where domestic wood burning is most widespread. Modern automatic pellet and wood chip appliances are significantly more energy efficient and have lower emissions than traditional fireplaces and wood log stoves, but most biomass burning is likely to take place in inefficient and polluting appliances thus contributing to exceedances of the EU limit values.

2. Tools supporting deployment of clean biomass burning in the Alpine Region

National and regional governments should support replacement/retrofit programmes to encourage households to replace older appliances with safer, more efficient, cleaner burning technologies. Financial incentives are necessary to assist with the capital costs of replacement or retrofitting appliances.

The European Commission has defined a framework – a set of guidelines on State aid for environmental protection and energy in which Member States can design appropriate support schemes for renewable energy. Within this framework Member States can use different kinds of incentives and market tools to support the deployment of biomass sources in the heating market.

Table 1 summarizes supporting tools for domestic biomass use in participating project countries.



Table 1: Summary of available economic and financial tools used in Alpine Region for domestic heating systems

Country	Target group	Tools
Austria	Private	Support is granted for newly installed pellet- and wood
	households	chip-fired central heating that replaces one or several
	Local Public	existing fossil fuel boilers. Support is also available for
	building	replacing wood-fired heating systems which are at least
	managers:	15 years old with pellet- and wood-chip fired central
	municipalities,	heating or for reducing the fuel consumption and
	Community-	emissions. The construction or densification of biomass
	owned	fired district heating is also supported, for the reduction
	enterprises,	of CO2-emission.
	other	Funding is granted in the form of a non-repayable
	commercially	investment grant for pellet- or wood-chip fired central
	active	heating to replace existing fossil fuel boilers as well as
	organisations,	biomass district heating. The amount of funding is
	public institutions,	varying depending on the size of the boiler and
	associations,	reduction of CO2-emission. For small boilers up to 50
	religious	and 100 kW, the funding is payed as a lump sum. Bigger
	denominations,	boilers and district heating projects can be funded by
	enterprises and	25% if the investment, this can be increased by 5%
	energy companies.	sustainability surcharge is possible if regional wood
		chips from forestry's is used.
		In the Climate and energy model regions extra support is
		provided as a non-repayable net investment subsidy
		depending on the installed system capacity up to 400kW



Country		Target group	Tools	
Italy	Conto	Public Administrations	Direct incentive calculated at a flat	
	Termico	and private subjects.	rate based on renewable thermal	
			energy that can be produced by	
			the new plant, on average 30-40%	
			of the investment, repaid in 1-2 or	
			5 years.	
	Ecobonus	Private subjects and	For biomass appliances: tax	
	and Bonus	companies: business	deduction of 50% of the	
	Casa	income holders, who	investment that is returned in 10	
		own, for whatever	years.	
		reason, the property		
		subject to intervention.		
	Lombardy	Lombardy Municipalities	Energetic renovation of public	
			buildings of municipalities:	
			contribution from 75% to 90% to	
			costs for each building.	
			Main objectives:	
			"nearly zero energy buildings"	
			complying from 2016;	
			small Municipalities public	
			buildings renovation	
	Veneto	Veneto private subjects	2019 call for subsidies Approval,	
		·	to grant for domestic biomass	
			heating appliances scrapping, not	
			exceeding 35 kW	
			Main objectives:	
			•energy-efficient plants	
			•particulate emissions reduction	
		Feltre citizens, resident for at	50'000 €, combinable with other	
		least two years	national and regional incentives,	
			to:	
			•Substitution of existing boilers	
			and stoves by 4 and 5-star	
			appliances, with 85% min	
			thermal efficiency.	
			•chimney upgrading and securing	
	Aosta Valley	Existing buildings related to:	Law 13/2015	
		local authorities	The intervention must start after	
		private individuals	the application submission and	
		energy saving and	must be completed by maximum	
		management companies	five years from the granting loan	
		(ESCOs).	Tive years from the granting loan	



	Construction companies not allowed.	date. The total amount of eligible expenses for the operations from 10,000 € to 400,000. Loans: •can be granted up to 100% of the amount, fees and taxes excluded; •cannot be combined with any other contribution or public fund granted to realize the same interventions. Mortgages cannot last more than thirty years. The Regional Government Council establishes every year the total yearly loan amount.
Aosta Valley	Rural companies and related entities	Law 17/2016 providing aid by: •low-interest loans •leasing contracts with a subsidized fees. Local authorities and their associative forms, consortia and private entities will be granted by low- interest loans focused on village and rural heritage protection and redevelopment, including the tourist activities. Costs aimed to plant construction for biofuels or energy from renewable sources are considered eligible up to the average company fuel yearly consumption, including charges to cover: •architects, engineers and consultants' fees; •consulting on environmental and economic sustainability fees, including feasibility studies; •notary fees for mortgages processing.

Country	Target group	Tools
Slovenia	Households	The Eco Fund provides non-repayable financial
		incentives for investments in the use of RES in
		residential buildings, including wood biomass
		combustion installations.
		Support for biomass use in heating and cooling is
		provided within different streams targeting specific
		subcategories: wood biomass boilers in households,
		wood biomass and geothermal district heating
		systems and wood biomass boiler equipment.
		Eco Fund also published a public tender for non-
		repayable financial incentives for the replacement of
		old solid fuel combustion installations in residential
		buildings, intended for socially disadvantaged
		individuals.
Country	Target group	Tools
Germany	Private Households;	In Germany there are two main types of support
	SMEs;	schemes: the loan program »Renewable Energies –
	governmental	Premium« by KFW and the grant "Market Incentive
	institutions	Programme (MAP)" by BAFA.
		1) »Renewable Energies – Premium« by KFW
		Loans up 25 million € at very attractive conditions,
		application via a normal private bank, who takes the
		financing risk.
		2) "Market Incentive Programme (MAP)" by
		BAFA.
		Grant up to 5.250€ per installation (basis 80€ per KW
		heating performance) for particle reduction systems.
		Non-refundable. Depending on specific technical
		factors of the new heating systems and only selected
		approaches (list available online)



3. Analysis of available Economic and financial instruments to support biomass burning in the Alpine Region

3.1 AUSTRIA

4. Title of financial instrument	
Responsible authority	KOMMUNALKREDIT PUBLIC CONSULTING GMBH
Contact details from responsible authority:	Address: Türkenstraße 9, 1090 Wien Phone: +43(0)1-31 6 31 E-mail: kpc@kommunalkredit.at Web site: https://www.umweltfoerderung.at/
Overall objectives of the instrument - should clearly present the overall objective of the policy document -	On behalf of the Federal Ministry for Sustainability and Tourism, KPC – Kommunalkredit Public Consulting handles grants in the fields of energy, climate and environment. The motto is "Consulting. Funding. Protecting the environment". KPC sees itself as a specialist for climate and environmental protection projects in the fields of renewable energy, energy efficiency, mobility management, urban water management, protection water management and remediation of contaminated sites.
Timeframe - should state the life period of the instrument document -	Submission is possible on an ongoing basis.
Specific objectives/priority areas - should clearly present the specific objectives and/or priority areas of the policy document -	"UFI – Umweltförderung im Inland" stands for environmental subsidies within Austria. It comprises climate, energy and environmental subsidies for topics like renewable energy, energy efficiency, mobility management, urban water management, water protection management and remediation of contaminated sites.

Specific Measures with financial impact			
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Wood heating Private Households <50 kW https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Private/Holzheizung en 2019/leitfaden holzheizungen 2019 .pdf	The incentive right is granted to replace an old wood combustion plant with a construction year before 2005 that provides heat to the building's central heating system with a new pellet or wood chips combustion system. Pellet combustion systems also receive subsidies if they reduce the fuel consumption of an existing fossil or wood fired heating system with a construction year before 2005.	Private households: The subsidised system must be used mainly privately. Therefore, the living area must be more than 50% of the total building.	1. 800 € for a new pellet or wood chips central heating system that replaces an old wood combustion plant with a construction year before 2005 2. 500 € for a pellet combustion system "RAUS aus ÖlBonus", subsidies can go up to 5.000 € for replacement of oil heating systems The maximum subsidy can be 35% of the eligible investment costs. Registration for funding after the planning, application at the latest 12 weeks after the registration (installation and billing completed) Additional subsidies from the Provinces and Municipalities
Dependent on the m	vovince in Austria the	re are also different s	are possible!

Dependent on the province in Austria there are also different subsidies available for households as part of the housing subsidy or as a loan etc.



Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects- how many funds, for whom, % of co-financing, timeframe, etc
"Raus aus Öl" Companies Wood heating < 100 kW https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Betriebe/Raus aus Oel Erneuerbare W aermeerzeugung 10 0 kW/UFI Infoblatt WAERMERZEUGER PAU.pdf	The incentive right is granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system.	 Companies Entrepreneurial organizations Societies Confessional institutions 	1. replacement of a fossil heating system: < 50 kW 5.000€ ≥ 50kW and < 100kW 8.000 € 2. new installation or replacement of a non-fossil fuel system: < 50 kW: 4.000 € ≥ 50kW and < 100kW 7.000€ The maximum subsidy can be 35% of the investment costs. The application for funding must be after the realisation of the project but at the latest 6 months
"Raus aus Öl" Companies Local/district heating < 100 kW https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Betriebe/Raus aus Oel Erneuerbare W aermeerzeugung 10 0 kW/UFI Infoblatt WAERMERZEUGER PAU.pdf	The connection to a highly efficient local or district heating system is subsidised if more than 80% of the generated energy comes from renewable sources.	· ·	after accounting. 1. replacement of a fossil heating system: < 50 kW 5.000€ ≥ 50kW and < 100kW 8.000 € 2. new installation or replacement of a non-fossil fuel system: < 50 kW: 4.000 € ≥ 50kW and < 100kW 7.000€ The maximum subsidy can be 35% of the investment

			costs
			The application for funding must be after the realisation of the project but at the latest 6 months after accounting.
Replacement of boilers https://www.umwel tfoerderung.at/filea dmin/user_upload/media/umweltfoerderung/Dokumente Betriebe/Nahwaermeversorgung/ufi standardfall_infoblattbiofern.pdf	Replacement of fully functioning biomass boilers that were in operation for a minimum of 15 years by an equal or smaller one. Minimum investment costs 10.000€.	 Companies Entrepreneurial organizations Societies Confessional institutions 	15% of the basis investment costs 20% for projects that comply to the EU cofinancing criteria Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating system Additional funding 5% (max. 10.000€) for EMAS certified companies) 5% sustainability funding for >80% wood chips from regional (50km) sources The application for funding must be handed in before the first binding step (contract, order, etc.) of the project.



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Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
"Raus aus Öl" Companies Wood heating >100 kW https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Betriebe/Holzheizun gen groesser 400 k W/UFI Standardfall Infoblatt BIOMASS E.pdf	The incentive right is granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system. The minimum investment costs have to be 10.000€ and the minimum CO₂ saving 4 tons per year. Installations are eligible only in areas where there is no possibility of connection to a highly efficient district heating supply. Exceptions are possible if the district heating operator confirms that a connection is not possible for the	 Companies Entrepreneurial organizations Societies Confessional institutions 	30% of the basis investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating system Maximum funding 900€ per saved ton of CO₂ Additional funding 5% (max. 10.000€) for EMAS certified companies) 5% sustainability funding for >80% wood chips from regional (50km) sources The application for funding must be handed in before the first binding step (contract, order, etc.) of the project.
Companies Local and district	object in question. The connection to a highly efficient local	 Companies Entrepreneurial 	30% of the basis investment costs
heating >100kW https://www.umwel	or district heating system is subsidised if more than 80% of the generated	organizations 3. Societies 4. Confessional institutions	Basis: additional investment costs for the environment,
tfoerderung.at/filea dmin/user upload/ media/umweltfoerd	energy comes from renewable sources. The minimum		fundable costs minus the costs for an equal fossil heating



erung/Dokumente Betriebe/Fernwaerm eanschluss groesser 400 kW/UFI Stand ardfall Infoblatt FE RNW.pdf	investment costs have to be 10.000€ and the minimum CO ₂ saving 4 tons per year.		Maximum funding 675€ per saved ton of CO ₂ Additional funding 5% (max. 10.000€) for EMAS certified companies) The application for funding must be handed in before the first binding step (contract, order, etc.) of the project.
Companies Biomass local heating >400kW https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Betriebe/Nahwaerm eversorgung/ufi sta ndardfall infoblatt biofern.pdf	Biomass combined heat and power plants and biomass local heating systems for a minimum of 2 separate objects. The minimum investment costs have to be 10.000€ and the minimum CO₂ saving 4 tons per year.	 Companies Entrepreneurial organizations Societies Confessional institutions 	25% of the basis investment costs 30% for projects that comply to the criteria for the EU cofinancing Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating system Maximum funding 900€ per saved ton of CO2 Additional funding 5% (max. 10.000€) for EMAS certified companies) 5% sustainability funding for >80% wood chips from regional (50km) sources



Companies	Biomass combined	1. Companies	The application for funding must be handed in before the first binding step (contract, order, etc.) of the project. 20% of the basis
https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd	heat and power plants The minimum investment costs have to be 10.000€ and the minimum	 Entrepreneurial organizations Societies Confessional institutions 	investment costs, if 100% of the technical usable heat are used, otherwise proportionally less
erung/Dokumente Betriebe/Nahwaerm eversorgung/ufi sta ndardfall infoblatt biofern.pdf	CO ₂ saving 4 tons per year.		Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating system
			Maximum funding 675€ per saved ton of CO ₂
			Additional funding 5% (max. 10.000€) for EMAS certified companies) 5% sustainability funding for >80% wood chips from regional (50km) sources
			The application for funding must be handed in before the first binding step (contract, order, etc.) of the project.
"Raus aus Öl" Communities Wood heating < 100 kW	The incentive right is granted for the new installation of a pellet, wood chip or wood log central	Austrian communities	1. replacement of a fossil heating system: < 50 kW 3.000€ ≥ 50kW and < 100kW

	https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Gemeinden/Raus a us Oel Erneuerbare Waermeerzeugung 100 kW/UFI Infobl att WAERMERZEUG ER PAU Gemeinden .pdf	heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system.		 4.800 € 2. new installation or replacement of a non-fossil fuel system: < 50 kW: 2.400 € ≥ 50kW and < 100kW 4.200€ The maximum subsidy can be 21% of the investment costs. The application for funding must be after the realisation of the project but at the latest 6 months after accounting.
	//			
	"Raus aus Öl"	The incentive right is	Austrian	18% of the basis
	Communities	granted for the new		18% of the basis investment costs
	Communities Wood heating	granted for the new installation of a		investment costs
	Communities	granted for the new		
	Communities Wood heating ≥100 kW https://www.umwel	granted for the new installation of a pellet, wood chip or wood log central heating system. It is		investment costs Basis: additional investment costs for the environment,
	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the		investment costs Basis: additional investment costs for the environment, fundable costs minus
	Communities Wood heating ≥100 kW https://www.umwel	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an
	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the		investment costs Basis: additional investment costs for the environment, fundable costs minus
	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet,		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
!	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz ungen_Mikronetze/ UFI_Standardfall_Inf oblatt_BIOMASSE_G	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet,		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
!	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz ungen Mikronetze/ UFI Standardfall Inf	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system. The minimum		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
!	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz ungen_Mikronetze/ UFI_Standardfall_Inf oblatt_BIOMASSE_G	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system. The minimum investment costs		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
!	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz ungen_Mikronetze/ UFI_Standardfall_Inf oblatt_BIOMASSE_G	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system. The minimum		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
!	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz ungen_Mikronetze/ UFI_Standardfall_Inf oblatt_BIOMASSE_G	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system. The minimum investment costs have to be 10.000€ and the minimum CO ₂ saving 4 tons per		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating
!	Communities Wood heating ≥100 kW https://www.umwel tfoerderung.at/filea dmin/user_upload/ media/umweltfoerd erung/Dokumente Gemeinden/Holzheiz ungen_Mikronetze/ UFI_Standardfall_Inf oblatt_BIOMASSE_G	granted for the new installation of a pellet, wood chip or wood log central heating system. It is also granted for the replacement of an existing fossil or nonfossil fueled heating system with a pellet, wood chip or wood log central heating system. The minimum investment costs have to be 10.000€ and the minimum		investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating



Measure/Action:	Description of measure/action	Target group: List and explain target	Financial aspects how many funds, for whom,
	measure/action	groups	% of co-financing, timeframe, etc
Climate and energy model regions Wood heating <400kW	Pellet, wood chip or wood log central heating system with a thermal power lower than 400 kW in financeable locations. Only applicable if the object can't be connected to district heating. Financeable locations: Social facilities Education facilities Society buildings Public buildings Public infrastructure	In climate and energy model regions: Communities Community owned companies Societies Public institutions Small and medium companies	Subsidy dependent on the installed power (kW): 155 €/kW for the first 50kW (0–50 kW) and 70 €/kW for every extra kW (51–399). For systems with the Austrian Ecolabel and the simultaneous installation of a thermal solar system an additional 10 €/kW can be granted. The maximum subsidy can be 30% of the investment costs.
Communities Local and district heating <100kW	The connection to a highly efficient local or district heating system is subsidised if more than 80% of the generated energy comes from renewable sources.	communities	1. replacement of a fossil heating system: < 50 kW 3.000€ ≥ 50kW and < 100kW 4.800 € 2. new installation or replacement of a non-fossil fuel system: < 50 kW 2.400 € ≥ 50kW and < 100kW 4.200€ The maximum subsidy can be 21% of the investment costs.

			The application for funding must be after the realisation of the project but at the latest 6 months after accounting.
Communities Local and district heating ≥100kW	The connection to a highly efficient local or district heating system is subsidised if more than 80% of the generated energy comes from renewable sources. The minimum investment costs have to be 10.000€ and the minimum CO₂ saving 4 tons per year.	Austrian communities	18% of the basis investment costs Basis: additional investment costs for the environment, fundable costs minus the costs for an equal fossil heating system Maximum funding 675€ per saved ton of CO2 Additional funding 3% (max. 10.000€) for EMAS certified companies) The application for funding must be handed in before the first binding step (contract, order, etc.) of the project.



3.2 ITALY

Title of financial instrument	
Responsible authority	GSE – Gestore Servizi Energetici
Contact details from	Address:
responsible authority:	Phone:
	E-mail:
	Web site: www.gse.it
Overall objectives of the instrument	Conto Termico: incentives for small interventions for the increase in energy efficiency and for the production of thermal energy from renewable sources. With reference to biomass appliances (Interventions 2B), only the replacement of an existing biomass or heating oil plant, except for a few exceptions, is incentivized.
Timeframe	There is no deadline, but a maximum annual cumulative expenditure is set, equal to 200 M € for Public Administrations and 700 M € for private individuals.
Specific objectives/priority areas	No priority area.

Specific Measures with financial impact			
Measure/Action: Description of measure/action		Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	For interventions related to biomass see: Regole Applicative GSE	Public Administrations and private subjects	Direct incentive calculated at a flat rate based on renewable thermal energy that can be produced by the new plant, on average 30-40% of the investment, repaid in 1-2 or 5 years.



Title of financial instrument	
Responsible authority	ENEA
Contact details from responsible authority:	Address: Phone: E-mail: Web site: www.acs.enea.it
Overall objectives of the instrument	Ecobonus and Bonus Casa: respectively energy efficiency upgrading of buildings and renovation of buildings with the aim of reducing the primary energy consumption of the building and replacing fossil fuels with renewable energy sources.
Timeframe	These mechanisms are updated annually with the State Budget Law.
Specific objectives/priority areas	No priority area.

Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	Details are published in the Revenue Agency Guides: Ecobonus http://www.acs.en ea.it/tecno/doc/Gu ida Agevolazioni R isparmio energetic o.pdf Bonus Casa http://www.acs.en ea.it/doc/ristruttur azioni.pdf	Private subjects and companies: business income holders, who own, for whatever reason, the property subject to intervention.	For biomass appliances: tax deduction of 50% of the investment that is returned in 10 years.



LOMBARDY REGION

Title of financial instrument	POR FESR 2014 – 2020 ASSE IV		
Responsible authority	Lombardy Region		
Contact details from	Address: Piazza Città di Phone: +39 02 6765 546	51	
responsible authority:	W/ob site.		
Overall objectives of the instrument	greenhouse gases for the entire region, not only for the Alpine Region. The program has included measures to reduce energy consumption resulting from		re Alpine Region. reconsumption resulting from rgy buildings" from 2016 and olic buildings of the small
Timeframe	The first measure for economic incentives was approved in July 2015, the second in May 2016. The measures for internal areas was approved from 2016 to 2018. Part of the work is still being completed but 102 municipalities have already been financed. The total reduction is expected around 21,75 GWh/year.		ved from 2016 to 2018. Part cipalities have already been
Specific objectives/pri ority areas	The first actions allowe particularly efficient. S excluded	nsumption and development on the installation of biomass lince 2018 the installation o	plants, providing they were
	es with financial impac		
Measure/Actior	n: Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of cofinancing, timeframe, etc
Title of the action	energetic renovation of public buildings of municipalities with up to 1,000 inhabitants, or their associations (1° measure)	17 municipalities Energy saving 2.033.473 KWh/year	90% contribution to costs for each building; Total contribution: 3.912.212 eur



Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	energetic renovation of public buildings of municipalities with up to 1,000 inhabitants, or their associations (2° measure)	85 municipalities Energy saving 10.953.044 KWh/year	90% contribution to costs for each building; Total contribution: 16.840.132 eur
Title of the action	energetic renovation of public buildings for the internal areas municipalities.	27 municipalities Energy saving 8.755.651 KWh/year	Contribution from 75% to 90% to costs for each building; Total contribution: 6.655.000 eur

VENETO REGION 1

VENETO REGION 1			
Title of financial instrument	Activities relating t 73, art 112/1998)	o environmental meas	ures planning (Article
Responsible authority Contact details from responsible authority:	Veneto Region Address: Palazzo Linetti, Calle Priuli, Venezia Phone: +39 041 2792442 E-mail: ambiente@pec.regione.veneto.it Web site: http://www.regione.veneto.it/web/guest/area-tutela-e-sviluppo-del-territorio		
Overall objectives of the instrument	Environment improve	ement interventions	
Timeframe	Veneto: 2019		
Specific objectives/priority areas	Plan for Protection and Rehabilitation of the Atmosphere - A2.2 Action implementation: subsidies granting to foster the scrapping of traditional stoves with more energy-efficient plants, biased on particulate emissions reduction		
Specific Measures with f	inancial impact		
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
call for subsidies granting - domestic biomass heating appliances scrapping	Approval of the 2019 call for subsidies granting for the scrapping of domestic biomass heating appliances not exceeding 35 kW	Citizens resident in Veneto Region	500'000€



VENETO REGION 2

Title of financial	Border Municipalities Fund (Region	nal Law 191/2009)
instrument	Faller Marie all (Faller and Car	- III D - V-II D -	
Responsible authority Contact details from responsible authority:	Feltre Municipality (Environment Councillor: Dr. Valter Bonan) Address: via Vignole 21, Feltre Phone: +39 0439 885340 E-mail: Web site: http://ambiente.comune.feltre.bl.it/feltrerinnova		
Overall objectives of the instrument	Project for promotion, awareness and energy efficiency and air quality impro		t - action plan for
Timeframe	2017-2019		
Specific objectives/priority areas	"Feltre rinnova": stimulation of emaintenance of wood biomass plants	equipment renew	al projects and
Specific Measures with	financial impact		
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects- how many funds, for whom, % of co- financing, timeframe, etc
Call for grants for the scrapping of highly polluting biomass stoves, boilers and kitchen stoves http://ambiente.comun e.feltre.bl.it/sites/ambie nte.comune.feltre.bl.it/files/allegati/Comune%2 Odi%20Feltre_FR_Band o%20rottamazione%20s tufe_signed.pdf	Substitution of existing boilers and stoves by 4 and 5-star appliances, according to Ministry of the Environment Decree 186/2017 classification, having 85% min thermal efficiency.	Feltre citizens, resident for at least two years	50'000 €, combinable with other State and regional incentives
Call for grants for chimney appliance related to biomass stoves, boilers and kitchen stoves http://ambiente.comun e.feltre.bl.it/sites/ambie nte.comune.feltre.bl.it/f iles/allegati/ComuneFel tre_FR_BandoCannaFu maria_aprile2019.pdf	updating of existing chimneys related to wood biomass domestic heating generators, biased on "chimney upgrading and securing", realized by an approved and qualified ERF installer or maintainer, who issues a conformity declaration, according with the law once completed the installation.	Feltre citizens, resident for at least two years	50'000 €, combinable with other State and regional incentives



AOSTA VALLEY 1

Title of financial instrument	Regional law 25 May 2015, n. 13
Responsible authority	Regione Valle d'Aosta – Aosta Valley Region FINANCES, PRODUCTION ACTIVITIES AND CRAFTS Department –Energy savings, renewable energy sources development, sustainable mobility office
Contact details from responsible authority:	Address: 15, Piazza della Repubblica – IT-11100 Aosta (AO) Phone: +39 0165 274506 / 274755 / 274572 E-mail: infoenergia@regione.vda.it Web sites: http://www.regione.vda.it/energia/default_i.asp Regional law 25 May 2015, n. 13: http://www.consiglio.regione.vda.it/app/leggieregolamenti/dettaglio?pk_Ir=8001 Deliberation 641/2019: http://www.regione.vda.it/energia/notiziario_i.asp?pk=344
Overall objectives of the instrument	Building refurbishment – Public Authority contributions
Timeframe	25 May 2015
Specific objectives/priority areas	Building energy efficiency improvement, also by renewable sources implementation

Measure/Action :	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Regional law 25 May 2015, n. 13	Granting of loans	Only interventions on existing buildings are eligible, related to: - local authorities - private individuals - energy saving and management companies (ESCOs). Interventions carried out by construction or sales companies are not financed.	The intervention must start after the application submission and must be completed by maximum five years from the granting loan date, related to the intervention complexity. The total amount of eligible expenses for the operations must be between a minimum of 10,000 euros and a maximum of 400,000 euros, net of tax charges. Any surplus is not included in the calculation of the loan amount. Loans: — can be granted up to 100% of the amount, that doesn't include fees and taxes, paid by the borrower; — cannot be combined with any other contribution or public fund granted to realize the same interventions.



Mortgages cannot last more than thirty
years.
The Regional Government Council
establishes every year the total yearly
loan amount.



AOSTA VALLEY 2

Title of financial instrument	Regional law 3 August 2016, n. 17
Responsible authority	Regione Valle d'Aosta – Aosta Valley Region TOURISM, SPORT, TRADE, AGRICULTURE AND CULTURAL HERITAGE DEPARTMENT
Contact details from responsible authority:	Address: Rue de la Maladière, 39 – IT-11020 Saint-Christophe (AO) Phone: +39 0165 - 275410 E-mail: ass-agricoltura@regione.vda.it Web sites: Introduction – brief: http://www.regione.vda.it/agricoltura/l_r_17_2016/default_i.aspx Regional law 3 August 2016, n. 17: http://www.consiglio.regione.vda.it/app/leggieregolamenti/dettaglio?pk_lr=8382
Overall objectives of the instrument	regulation of regional sustain policy for agriculture and rural development.
Timeframe	3 August 2016
Specific objectives/priority areas	This law provides aid, in the form of low-interest loans, for investments in the sector of primary production, processing and marketing of agricultural products.

Specific Measures with financial impact

Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Regional law 3 August 2016, n. 17	Granting of loans	Agriculture, rural companies, related entities	The law 17/2016 provides aid in two forms: - low-interest loans - leasing contracts with a subsidized fees. More, local authorities and their associative forms, consortia and private entities will be granted by low- interest loans focused on village and rural heritage protection and redevelopment, including the tourist activities (articles 14 and 15). Among several other, costs aimed to plant construction for biofuels or energy from renewable sources are considered eligible up to the average company fuel yearly consumption, including charges to cover: - architects, engineers and consultants' fees; - consulting on environmental and economic sustainability fees, including feasibility studies; notary fees for mortgages processing.



3.3 SLOVENIA

Title of financial instrument	Eco Found – Slovenian Environmental Public Found
Responsible authority	Eco Found – Slovenian Environmental Public Found
Contact details from responsible authority:	Address: Bleiweisova cesta 30, 1000 Ljubljana Phone: + 386 (0)1 241 48 20 E-mail: <u>ijz@ekosklad.si</u> Web site: https://www.ekosklad.si/
Overall objectives of the instrument - should clearly present the overall objective of the policy document -	The transition to renewable energy sources, efficient use of energy, waste management, wastewater treatment, sustainable mobility and public awareness are challenges for the Eco Fund.
Timeframe - should state the life period of the instrument document -	Applicants may apply for a public invitation from the day of their publication in the Official Gazette of the Republic of Slovenia. The public invitation is valid until the announcement of the conclusion of the public invitation in the Official Gazette of the Republic of Slovenia, pending the allocation of all funds (from 21. 6. 2019).
specific objectives/priority areas - should clearly present the specific objectives and/or priority areas of the policy document -	A new investment is an investment for the implementation of one or more of the following actions, which has not yet been completed at the time of the submission of the application for an incentive (hereinafter: the application) following this public call: A - thermal insulation of the facade B - Thermal insulation of ground or ground above unheated space / basement C - thermal insulation of a roof or ceiling against an unheated space D - replacement of exterior joinery E - installation of heat pump for central heating of the building F - installation of wood biomass combustion plant for central heating of the building G - replacement of the heat station or installation of a heat station for connection to the district heating system H - installation of solar heating system I - installation of ventilation by returning the heat of the exhaust air in the buildings J - Installation of an energy efficient lighting system K - optimization of gas condensing boiler for central



	heating M - construction of almost zero-energy building N - utilization of excess heat from processes and / or installations O - Installation of energy efficient electric motors and / or installation of frequency converters P - introduction of an energy management system R - energy optimization measure in technological process S - investments in cogeneration plants
(: -	

Specific Measures with financial impact			
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects- how many funds, for whom, % of co- financing, timeframe, etc
Title of the action Wood biomass combustion plants: Credit Link: https://ekosklad.si/gospodarstvo/prid obite-spodbudo/seznam- spodbud/kurilne-naprave-na-lesno- biomaso-3/kurilne-naprave-na-lesno- biomaso-kredit-2	Wood biomass combustion plants: Credit The incentive right is granted to purchase and install or replace an old combustion plant that provides heat to the building's central heating system.	1. local communities 2. legal persons, sole proprietors and other natural persons carrying out registered activities, or by a regulation or an act establishing a certain activity, all of which are entered in the business register in the Republic of Slovenia, with the exception of their branches abroad 3. public-law legal entities owning tangible	The amount of funds for the payment of grants and cover the costs of the subsidized interest rate is EUR 7,000,000.00. The amount of funds allocated for loans amounts to EUR 5,000,000.00. The amount of the grant is up to 20%, the amount of the credit is 80% of the eligible investment costs, excluding VAT. For local communities, the amount of the grant is up

Moscuro/Actions	Description	property other than direct users of the state budget.	to 20% and the amount of the loan is up to 80% of the eligible investment costs, including VAT.
Measure/Action:	Description of measure/action	Target group: List and explain target groups	aspects how many funds, for whom, % of cofinancing, timeframe, etc
Title of the action Wood biomass combustion plants: Subsidy Link: https://ekosklad.si/gospodarstvo/prid obite-spodbudo/seznam- spodbud/kurilne-naprave-na-lesno- biomaso-3/kurilne-naprave-na-lesno- biomaso-subvencija-2	Wood biomass combustion plants: Subsidy The incentive right is granted for the purchase and installation or for replacement of an old combustion plant providing heat to the building's central heating system with a new wood biomass firing plant.	1. local communities 2. legal persons, sole proprietors and other natural persons carrying out registered activities, or by a regulation or an act establishing a certain activity, all of which are entered in the business register in the Republic of Slovenia, with the exception of their branches abroad 3. public-law legal entities owning tangible property other than direct users of the	amount of the credit is 80% of the eligible investment costs, excluding VAT. For local communities, the amount of the grant is up

state budget.	80% of the eligible investment costs, including VAT.
	100% subsidy for replacement of combustion plants: The Eco Fund reimburses the full cost of replacing the old combustion plants to
	socially- disadvantaged individuals.



3.4 FRANCE

Note:

- the instruments described below mainly concern low-power appliances for domestic heating in the Auvergne-Rhône-Alpes region, whether specific to the region or of national application; high-power appliances (> 500 KW) are covered by other financial instruments (National Heat Fund administered by ADEME) and are not described.
- there may be other instruments for low-power devices in other regions at the initiative of local authorities, but they are not described here.

Title of financial instrument	Local Wood-Air Fund for the modernization of individual wood heating
Responsible authority	ADEME
Contact details from responsible authority:	https://auvergne-rhone-alpes.ademe.fr/lademe-en-region/trouver-votre-contact
Overall objectives of the instrument	Accelerate the replacement of individual wood-burning appliances prior to 2002 in main residences compared to spontaneous replacement (around 4%/year), by awarding a flat-rate bonus to individuals in the context of group operations conducted in a territory sensitive to fine particulate pollution, which are carried out by a local authority on its territory and which are accompanied by specific and intense animation.
Timeframe	Operations generally deployed over 5 years; instrument in existence since 2015, after an experiment in the Arve Valley launched in 2013. Currently, there are 8 Wood-Air funds: - Arve Valley - Agglomeration of Annemasse - Community of municipalities of Arve and Salève - Grand Annecy - Grenoble Alpes métropole - Voironnais countries - Grésivaudan Country - Lyon Metropolis And several will start in 2020 (without ADEME): - Metropolis of Saint Etienne - Metropolis of Clermont-Ferrand - Grand Chambery
Specific objectives/priority areas	Financing of ADEME from a national Air Fund. This tool is particularly used in PPPs where PM10 from residential heating is the majority in winter. When ADEME finances with the Air Fund, it covers about 50% of the expenses and the rest is provided by local authorities and the Region in variable proportions. Operations are negotiated and conducted independently of each other, with common elements. Amount of premiums that vary from one fund to another (from €500 to €2000), subject to resources or not. Objectives related to the replacement of equipment: - improving the quality of the territory's wood-log supply chain - dissemination of good practices for individual heating (ignition, chimney sweeping, etc.) - awareness of pollution from wood burning - mobilization of local professionals (charters, technical and collective communication activities, etc.)



Title of financial instrument	National aid for individual wood heating
Responsible authority	Ministry of Ecological and Solidarity Transition
Contact details from responsible	https://www.economie.gouv.fr/particuliers/aides-
authority:	renovation-energetique
Overall objectives of the instrument	Tax and financial incentives for individuals to accelerate the energy renovation of the residential stock
Timeframe	31/12/2019 for tax incentives which are defined annually in each Finance Act
Specific objectives/priority areas	Works and investments concerning energy renovation: heating and cooling appliances, thermal insulation of dwellings The modernization of individual wood-burning appliances leads to a significant reduction in pollutant emissions, although it is often accompanied by an increase in wood-burning as a main objective: the national ambition for individual wood-burning is to maintain constant energy production in MWh while reducing emissions and heating more homes: this involves replacing old appliances with high-efficiency and lower emissions/KWh appliances (double reduction effect), improving fuel quality (actions towards professionals) and uses (actions towards individuals). The strong growth of wood pellet fuel is also a very good response to this ambition.

Specific IV	leasures wi	ith finan	icial imba	СŪ

Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Energy Transition Tax Credit (CITE)	Deduction from income tax of a portion of the expenses incurred in the main dwelling by the tenant or owner-occupier.	All households, taxable or not, without means test	30% on the amount including VAT of the device; The tax reduction is recovered in year n+1 of the works. Obligation to use a professional with EGR certification
Zero interest PTZ eco-loan https://www.service- public.fr/particuliers/vosdroits/F19905	•	principal residence and built for more than 2 years. Occupant owners or lessors and co-owners in	Amount from 7000 to 30000 €. Since March 1 st 2016, cumulation with ISCED possible without resource conditions Loan granted until 31.12.2021



	primary energy > 35%)		
Energy Saving Certificate	Aid paid by obligated energy suppliers for energy saving work carried out by qualified EGM companies	All owners and tenants, primary and secondary residences. The aid may take the form of purchase vouchers or soft loans	System not very readable because many modalities and companies are not always well informed; can be complex to implement
VAT at reduced rate	Work to improve the energy quality of homes over two years old benefits from the 5.5% VAT rate	Professional invoices only, no self-construction	Immediate gain
ANAH's "Living Better" program	The National Housing Agency (ANAH) provides additional financial assistance to other assistance	Homeowners with modest and very modest incomes for energy renovation (boiler replacement, insulation)	Coverage of 35 to 60% of the work according to energy savings and income level, with a work ceiling of €20,000 excluding VAT. Can be combined with CITE



Responsible authority Contact details from https://www.a projets-bois-en Overall objectives of the instrument fired boilers (Auvergne-Rhô https://www.a projets-bois-en collective wood		or small and medium-swood chips, pellets, logone-Alpes Region avergnerhonealpes.fr/aide ergie-environnement-enect-Rhône-Alpes Region l-burning projects:	e/99/289-appel-a- ergie.htm wishes to encourage		
	- ce		- Supplied by local supply chains, - Energy and environmental performance (PM10 emission ceilings), - Ensuring the heat requirements of better insulated buildings		
Timeframe	Timeframe		Continuous since 2017.		
areas SRADDI produc		SRADDET and Sproduction fro	ected until 2030 to sup SRB (regional biomass so m wood energy by 429 or rooms, half of which are	heme) to increase heat % and to create 1200	
Specific Measures wit	h financ	cial impact			
Measure/Action:	Descri measu	ption of re/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc	
Title of the action	works manage feasibil the	nent aid for the and project ement after a ity study. See rules padable from bsite	Small to medium boiler rooms (Power: 30 to 500 KW and Heat production: less than 100 TOE)		



3.5 GERMANY

Title of financial instrument	
Responsible authority	KFW – Kreditanstalt für Wiederaufbau
Contact details from responsible	Address:
authority:	Phone:
	E-mail:
	Web site: www.kfw.de
Overall objectives of the	KFW-Erneuerbare Energien im Programmteil 'Premium',
instrument	Biomasseanlagen (Nr. 271. 281) (Förderkredit):
	Loans to increase energy efficiency and the production of
	thermal energy from renewable sources.
	Application for the program via normal private banks. With reference to biomass heating appliances, the replacement
	of an existing biomass or heating oil plant, except for a few
	exceptions, is incentivized.
Timeframe	There is no deadline
Specific objectives/priority	No priority area.
areas	

Measure/Ac tion:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of cofinancing, timeframe, etc
Title of the action	Focussing on efficient woodbased heating systems For details see: https://www.kfw.de/Downloadd- Center/F%C3%B6rderprogramme- (Inlandsf%C3%B6rderung)/PDF- Dokumente/6000002410- Merkblatt-271-281-272- 282.pdf https://www.kfw.de/inlandsfoerderung/Privatpersonen/Bestandsimmobilie/ (basic infos in english available)	Companies, Private subjects, Governmental institutions	Loan with very attractive conditions (time and interest rate) that has to be reimbursed by 100%. Application via the local private bank. The investment can be 100% financed by this tool.

Title of financial instrument	
Responsible authority	KFW – Kreditanstalt für Wiederaufbau
Contact details from responsible authority:	Address: Phone: E-mail: Web site: www.kfw.de
Overall objectives of the instrument	KFW-Erneuerbare Energien im Programmteil 'Premium', Biomasseanlagen (Nr. 271. 281) (Tilgungszuschuss): Redemption payment grant for the increase in energy efficiency and for the production of thermal energy from renewable sources. All types of wood heating systems to replace existing low- efficient heatings
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

Specific Measures	Specific Measures with financial impact			
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc	
Title of the action	Details can be found here: https://www.kfw.de/Download-Center/F%C3%B6rder programme-(Inlandsf%C3%B6rder ung)/PDF-Dokumente/6000002 410-Merkblatt-271-281-272-282.pdf https://www.kfw.de/inlandsfoerderung/Privatpersonen/Bestandsimmobilie/(basic infos in english available)	 Companies, Private subjects, Governmental institutions 	For biomass appliances: 1) Support up to 100.000€ redemption payment grants 2) 50.000€ (up to 20€ per kW heating performance) depending on different efficiency factors like emissions 3) Bonus for very efficient heating systems 4) Bonus for an efficient heating buffer storage solution	



Title of financial instrument	
Responsible authority Contact details from responsible authority:	KFW – Kreditanstalt für Wiederaufbau Address: Phone: E-mail: Web site: www.kfw.de
Overall objectives of the instrument	KfW - Energieeffizient Bauen und Sanieren – Energieeffizient Bauen und Sanieren - Zuschuss Baubegleitung (Nr. 431) (Zuschuss) – non-refundable grant for expert consulting for private households (focus) in energy efficiency and for the production of thermal energy from renewable sources.
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

Specific Measures with financial impact				
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc	
Title of the action	Details can be found here: https://www.kfw.de/ PDF/Download- Center/F%C3%B6rder programme- (Inlandsf%C3%B6rder ung)/PDF- Dokumente/6000003 901 M 431 ES Bau begleitung.pdf https://www.kfw.d e/inlandsfoerderun g/Privatpersonen/B estandsimmobilie/ (basic infos in english available)	Private subjects, beneficiaries of specific other support programs	For biomass appliances: 1. 50% of the consulting costs; 2. up to 4.000€ per optimization investment as a non-refundable grant.	



Title of financial instrument	
Title of financial instrument	
Responsible authority	KFW – Kreditanstalt für Wiederaufbau
Contact details from responsible	Address:
authority:	Phone:
	E-mail:
	Web site: www.kfw.de
Overall objectives of the instrument	KfW - Energieeffizient Sanieren Ergänzungskredit, Heizungsanlagen auf Basis erneuerbarer Energien (Nr. 167) (Förderkredit) Complemental loans for the increase of energy efficiency heating systems from renewable sources. With reference to biomass appliances, only the replacement of an existing biomass or heating oil plant, except for a few exceptions, is incentivized.
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

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Specific	Measures v	vith tina	ncial imt	act

Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	Focussing on efficient wood-based heating systems For details see: https://www.kfw.de/PDF/Download-Center/F%C3%B6rderprogramme-(Inlandsf%C3%B6rderung)/PDF-Dokumente/6000003615 M 167 EESErgaenzungskredit.pdf	 Companies, Private subjects, Governmental institutions 	 Loan with very attractive conditions (time and interest rate) that has to be reimbursed by 100%. Application via the local private bank. The investment can be 100% financed by this tool.



Title of financial instrument			
Responsible authority	Bundesministerium für Umwelt, Naturschutz Bau und Reaktorsicherheit (BMUB)		
Contact details from responsible authority:	Bundesamt für Wirtschaft und Ausfuhrkontrolle (BAFA) Erneuerbare Energien Frankfurter Straße 29 - 35 65760 Eschborn Telefon: 06196/908-1625 Fax: 06196/908-1800 Internet: www.bafa.de		
Overall objectives of the instrument	BAFA - Marktanreizprogramm Erneuerbare Energien: Biomasseanlagen (Zuschuss) Grant for the increase of energy efficiency heating systems from renewable sources. Focus on wood heating systems.		
Timeframe	There is no deadline		
Specific objectives/priority areas	No priority area.		

Specific Measures with financial impact				
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc	
Title of the action	Focussing on efficient wood-based heating systems, For details see: http://www.bafa.de/DE/Energie/Heizen mit Erneuerbaren Energien/Biomasse/biomasse node.html	Governmental	Grants up to 3.500€ per new installation (basis 80€ per KW heating performance). Non-refundable. Depending on specific technical factors of the new heating systems and only selected approaches (list available online)	

Title of financial instrument	
Responsible authority	Bundesministerium für Umwelt, Naturschutz Bau und Reaktorsicherheit (BMUB)
Contact details from responsible authority:	Bundesamt für Wirtschaft und Ausfuhrkontrolle (BAFA) Erneuerbare Energien Frankfurter Straße 29 - 35 65760 Eschborn Telefon: 06196/908-1625 Fax: 06196/908-1800 Internet: www.bafa.de
Overall objectives of the instrument	BAFA - Marktanreizprogramm Erneuerbare Energien: Biomasse, Innovationsförderung (Zuschuss) (Market incentive Program) Grant for the increase of energy efficiency heating systems from renewable sources. Focus on very innovative wood heating systems and particle reduction systems
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

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JUECI		⁄leasures wi		IIIaliciai	IIIIDac	

Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	Focussing on efficient wood-based heating systems, For details see: http://www.bafa.d e/DE/Energie/Heiz en_mit_Erneuerbar en_Energien/Biom asse/biomasse_no de.html	 Companies, private subjects, contractors 	 Grant up to 5.250€ per installation (basis 80€ per KW heating performance) for particle reduction systems. Non-refundable. Depending on specific technical factors of the new heating systems and only selected approaches (list available online)



Title of financial instrument	
Responsible authority	Bundesministerium für Umwelt, Naturschutz
	Bau und Reaktorsicherheit (BMUB)
Contact details from responsible	Bundesamt für Wirtschaft und Ausfuhrkontrolle (BAFA)
authority:	Erneuerbare Energien
	Frankfurter Straße 29 - 35
	65760 Eschborn
	Telefon: 06196/908-1625
	Fax: 06196/908-1800
	Internet: www.bafa.de
Overall objectives of the	BAFA - Anreizprogramm Energieeffizienz (APEE) -
instrument	Biomasseanlage / Wärmepumpe (Zuschuss) – Incentive
	Program
	Grant for consulting services on energy efficiency and
	innovative heating systems
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

Specific Measures with financial impage	ct
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Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects - how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	All type of energy efficiency consulting For details see: http: http://www.bafa.d e/DE/Energie/Ener gieberatung/Energi eberatung_Wohng ebaeude/energiebe ratung_wohngebae ude_node.html	private subjects	 Grant up to 60% (max 1.100€) of consulting costs. Non-refundable. Only for houses with more than three apartments.



Title of financial instrument	
Responsible authority	Bundesministerium für Wirtschaft und Technologie
Contact details from responsible authority:	Verbraucherzentrale Telefon: 0800 809 802 400 (kostenfrei) Internet: www.verbraucherzentrale-energieberatung.de
Overall objectives of the instrument	Energieberatung der Verbraucherzentralen Free consulting services in the context of energy efficiency checks (with different detail levels)
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

Specific Measures with financial impact				
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc	
Title of the action	All type of energy efficiency consulting For details see: https://verbrauche rzentrale-energieberatung.d e/beratung/	private subjects	Basic consulting services of the "Verbraucherzentralen" (Information Centers on energy-consulting for the public) are free of charge.	



Bavaria 1

Title of financial instrument	
Responsible authority	Bayern Labo
Contact details from responsible authority:	BayernLabo Brienner Straße 18 80333 München E-Mail-Adresse wohnungsgesellschaften@bayernlabo.de Internet: www.wohnen.bayern.de
Overall objectives of the instrument	Land Bayern - Bayerisches Modernisierungsprogramm (BayModR) modernization of existing buildings related to all efficiency aspects also wood heating systems related to KFW-support schemes with focus on Bayaria
Timeframe	There is no deadline
Specific objectives/priority areas	No priority area.

Specific Measures with financial impact				
Measure/Action:	Description of measure/action	Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc	
Title of the action	For details see: https://bayernlabo. de/fileadmin/user_upload/Mietwohnr aum/Bayerisches_Modernisierungspr ogramm/BayModR _20180517_Richtli nien.pdf	private subjects	 Loan up to 100% of the modernisation investments (min. 5.000€ investment costs per apartment), very attractive conditions related to KFW-support Loan, only for buildings with more than three apartments as rental apartments. 	



Bavaria 2

Title of financial instrument			
Responsible authority		Bayrisches Staatsministerium des Inneren	
Contact details from responsible authority:		Bayrisches Staatsministerium des Inneren Franz-Josef-Strauß-Ring 4 80539 München Telefon: 089/2192-01 Fax: 089/2192-12721 E-Mail-Adresse poststelle@stmi-obb.bayern.de Internet: www.wohnen.bayern.de	
Overall objectives of the instrument		Land Bayern - Förderung von Modernisierung von Mietwohnungen sowie von Pflegeplätzen in stationären Altenpflegeeinrichtungen (Förderkredit) modernization of existing buildings related to all efficiency aspects also wood heating systems	
Timeframe		There is no deadline	
Specific objectives/priority areas		No priority area.	
Specific Measures with financial impact			
Measure/Action:	Description of measure/action	of Target group: List and explain target groups	Financial aspects how many funds, for whom, % of co-financing, timeframe, etc
Title of the action	https://www.stmb bayern.de/assets/s tmi/wohnen/foerd erung/iic1 modern isierungen merkbi baymod.pdf	<u>s</u> <u>1</u> <u>n</u>	 Loan up to 100% of the modernisation investments (min. 5.000€ investment costs per apartment), very attractive conditions, only for buildings with more than three apartments as rental apartments.



4. References

- [1] LIFE11/ENV/ES/584 AIRUSE. Testing and development of air quality mitigation measures in Southern Europe.
- [2] Monforti-Ferrario, F, Belis C, Sustainable use of biomass in residential sector A report prepared in support of the European Union Strategy for the Danube Region (EUSDR), EUR 29542 EN, Publications Office of the European Union, Luxembourg. 2018, ISBN 978-92-79-98348-1, doi:10.2760/908058, JRC113417.