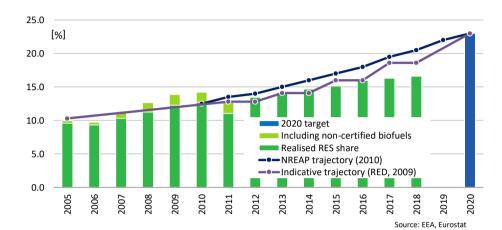


Renewable Energy Policy Factsheet

Summary

Main support scheme: RES-E is promoted through a feed-in tariff, a premium tariff as well as through tenders for the definition of the premium tariff level. The French government invites tenders for the construction of renewable energy plants in order to reach the target capacity set by a multi-annual investment plan. For RES-H&C the Heat Fund support is the main tool for collective buildings. For individual housing, a tax credit is the main support scheme for renovation. For new building RES technologies are put forward through the legal text RT2012. The promotion of biofuels in France is mainly provided through fiscal regulation mechanisms. On the one hand, the lower competitiveness of biofuels compared to conventional fuels is improved through a partial exemption of the domestic consumption tax. On the other hand, the tax on polluting activities prescribes higher rates for companies trading fuel for consumption, in case they do not respect the national quota of biofuels to be blended within conventional fuels, which is defined for each





Abbreviations used: Data for 2018 **RES:** renewable energy sources **Overall RES share:** 16.6% Avoided fossil fuels: 38.9 [Mtoe] **RES-E:** renewable electricity Overall RES 2020 target: 23.0% Avoided fuel expenses: 13.2 [billion euro] **RES Turnover:** 19830 [MEUR] RES-H/C: renewable heating/cooling Share RES-E in electricity: 21.2% **RES-T:** renewable transport fuels Share RES-T in transport: 9.0% **RES Employment:** 151600 [jobs] Share RES-H/C in heating: 21.8% Hydropower Wind power Solar PV, CSP and water heaters Solid biomass 2018 Biofuels in transport 2005 Renewable heat consumed Renewable heat derived Heat pumps All other renewables Gap towards 2018 Source: Eurostat, 2020.

	2005		2018	
	Energy	Energy	Employment	Turnover
Hydropower	5608.7 ktoe	5205.7 ktoe	10500 Jobs	1550 MEUR
Wind power	92.2 ktoe	2466.9 ktoe	15700 Jobs	2480 MEUR
Solar PV, CSP and water heaters	0.9 ktoe	908.7 ktoe	16800 Jobs	2370 MEUR
Solid biomass	107.8 ktoe	323.9 ktoe	31100 Jobs	3650 MEUR
Biofuels in transport	591.2 ktoe	3142.0 ktoe	29100 Jobs	2810 MEUR
Renewable heat consumed	8602.3 ktoe	8934.8 ktoe		
Renewable heat derived	351.0 ktoe	1788.1 ktoe		
Heat pumps	200.9 ktoe	2600.8 ktoe	41200 Jobs	6000 MEUR
All other renewables	225.1 ktoe	449.2 ktoe	7200 Jobs	970 MEUR
Gap towards 2018	10039.9 ktoe			Source: Eurostat, EurObserv'ER, 2020

Hydropower jobs & turnover only covers 'small hydropower'. PV=Photovoltaics, CSP=Concentrated Solar Power. Biofuels in transport only covers compliant fuels (employment and turnover additionally cover the non-compliant biofuels). Derived heat includes heat produced in main activity producer plants and heat sold produced in autoproducer plants. Its counterpart is the final heat consumption in the final consumption sectors (such as households).



CURRENT RENEWABLE ENERGY POLICY

RES-E

In France, electricity from renewable sources for large plants (hydro, wind or PV) is promoted through a premium tariff system. Some renewable energy producers may benefit from a premium tariff on top of the sale price they get on the electricity market, in order to cover the costs of their installations and ensure their profitability. For the smaller plants- (less than 500 kW - mainly individual PV plants or very small hydropower) sectors are promoted through a feed-in tariff. Furthermore, persons that install photovoltaic installations on buildings are eligible for a reduced VAT rate. For almost all RES technologies, The French government invites tenders for the construction of renewable energy plants in order to reach the target capacity set by the multi-annual investment plan (Programmation Pluriannuelle de l'Énergie - PPE) of which last version was validated in early 2020.

RES H&C

For heating and cooling purposes the Heat Fund, implemented to finance RES-H&C projects and which has been implemented in 2009 and is still the main supporting measure for RES application in collective buildings. Its budget has been increased in 2020 to reach €350 millions. Another important measure is Thermal Regulation reglementation (RT 2012) that began to operate at the beginning of 2013. It created restricting measures to promote energy efficiency and renewable energies in all new buildings. A new thermal reglementation should be implemented in 2021 (RE 2020).

For individual housing the main tool is a new premium called "MaPrimeRenov". This tool took over to the tax credit measure that supported individual RES investment for nearly 15 years (implemented in 2005). MarPrimeRenov offers financial aids based on the earnings of the consumer. This measure covers almost all RES individual equipment (individual wood stoves or wood boilers, solar thermal collectors and ambient heat except air-air appliances). Moreover, lower VAT rates were implemented for RES-H&C materials and also zero rates eco-loan to improve overall energy performance of housing.

RES-T

The main support scheme for renewable energy sources used in transport is a quota system. This scheme prompts companies importing or producing petrol, gas or diesel fuels to ensure that biofuels make up a defined percentage of the company's total annual sale of fuel. On the one hand, the lower competitiveness of biofuels compared to conventional fuels is supported through a partial exemption of the domestic consumption taxes. On the other hand, the tax on polluting activities foresees higher rates for companies releasing fuel for consumption, in case they do not respect the national quota of biofuels to be blended within conventional fuels, which is defined for each fuel type.

OVERVIEW OF MAIN SUPPORTING POLICIES

	REGULATORY POLICIES					FISCAL INCENTIVE AND PUBLIC FINANCES			
	Premium tariff	Feed-in tariff (for < 500 kW plants)	Tendering	Quota obligation with Tradable Green certificates	Quota obligation without Tradable Green certificates	Net-metering/ net-billing	Capital subsidy, grants (Heat Fund and)	Tax regulation mechanism (Tax credit)	Loans
RES-E									
- Offshore wind	0		0						
- Onshore wind	0		0						
- Solar	0	0	0						
- Hydro	0	0	0						
- Geothermal	0		0						
- Solid biomass	0	0	0						
- Biogas	0	0	0						
RES-H/C									
- Solar thermal							0	0	
- Geothermal							0		
- Biomass							0	0	
- Biogas							0		
 Small scale installations, e.g. solar thermal collects, heat pumps, biomass boilers and pellet stoves 								0	0
 Others, i.e. aerothermal, hydrothermal 								0	
RES-T									
- Bio gasoline					0				
- Biodiesel					0				

Table 1: Overview of support schemes to promote renewable energy in the France

Sources: EurObserv'ER, French National Climate and Energy Plan, RES-Legal Europe (2020)

Instrument	Description
Premium tariff <i>Complément de</i> <i>3emuneration</i>	Premium tariffs are allocated through a quasi-tendering process, where energy producers compete against each other for feed-in premium support. For all RES technologies, FiP are reachable through calls for tenders auction published by Authority. The aim is to pilot the technologies growth as close as possible to the RES investment program define by the government in October 2018. Website: http://www.ecologique-solidaire.gouv.fr/index.php/dispositifs-soutien-aux-energies-renouvelables
RES-H building obligations Réglementation thermique	 The thermal regulation 2012 obliges new buildings to comply with minimum energetic performance requirements as defined by the label BBC-Effinergie. Since 2012, the use of renewable energies in order to reach energetic performance requirements (including the use of sanitary hot water and heating devices) is mandatory for single-family houses (Art. 16 arrêté du 26 octobre 2010). The thermal regulation 2012 applies for new buildings as follows: For service sector buildings and residential buildings situated within a national renovation programme area: from 28 October 2011 For residential buildings situated within 500 meters of a national renovation programme area: from 1 March 2013 For other residential buildings: from 1 January 2013 As far as existing buildings are concerned, buildings of the service sector and public service sector are obliged from January 2012 to improve their energetic performance by 2020 (Art L 111-10-3 Code de la construction et de l'habitation), including renewable energy plants for heating purposes. Except single-family houses, there are no RES-H building obligations directly supporting the use of heating systems from renewable energy sources. However, RES-H can be required indirectly through the energetic performance obligations.
Heat Fund scheme Fonds chaleur	The Heat Fund, managed by ADEME since 2009, is dedicated to renewable heat production in collective housing, communities and businesses. The fund can participate to a project financing up to 30% of its total amount. During the period 2009-2018, the heat Fund allocated 2.17 billion euros to support nearly 4,820 projects and a total production of 2.38 million toe. Website: http://www.ademe.fr/expertises/energies-renouvelables-enr-production-reseaux-stockage/passer-a-laction/produire-chaleur/fonds-chaleur-bref
RES premium MaPrimeRenov	MaPrimeRénov 'is a new public support tool that simplifies aid for energy renovation. It can finance a wide variety of insulation, ventilation or heating changes including RES equipment,. To be eligible for MaPrimeRénov ', you need : be the owner of a home built for more than 2 years; occupy it as a main residence; not exceed the resource limit and have the work carried out by a RGE labeled company. Website : . <u>https://www.maprimerenov.gouv.fr</u>
Investments for the Future programme Programme investissement d'avenir	The Investments for the Future programme is intended to support projects fostering innovation and the creation of non-relocatable jobs in sectors with strong potential for the French economy. It is a matter of strengthening France's strategic competitive advantages. The implementation of the Investments for the Future program is steered by the General Investment Commission (CGI). It is supported by several operators, including ADEME, which is responsible for innovation for energy and ecological transition. RES technologies and smart electricity grids are eligible to this programme. Website: http://www.ademe.fr/en/investments-for-the-future
Training programmes for Installers Référencement RGE	The association Qualit'EnR was established in 2006 as an initiative of five national professional organisations in order to promote quality installations in the field of solar thermal energy, photovoltaic, biomass as well as heat pumps and geothermal probes. The association was established for private households willing to install a renewable energy plant, with the aim to ensure them a quality installation.
Biofuel quota (Réduction de la taxe générale sur les activités polluantes TGAP)	The act on energy transition of 2015 sets a target of 10% renewable energies in the total energy consumption of the transport sector by 2020 and of at least 15% by 2030. In order to reach these targets, the quota of biofuels to be blended within conventional fuels is defined for each fuel type. In case companies releasing fuel for consumption do not respect the biofuels quota, they are submitted to a higher rate of the tax on polluting activities (TGAP).

For further information:

Details of the French Heat Fund, http://www.fonds-chaleur.ademe.fr

Feed-in Premium French scheme, <u>http://www.ecologique-solidaire.gouv.fr/index.php/dispositifs-</u> soutien-aux-energies-renouvelables

French Energy investment program, <u>http://www.ecologique-</u> solidaire.gouv.fr/sites/default/files/PPE%20int%C3%A9gralit%C3%A9.pdf

French RES-E sectors barometer, <u>http://www.energies-renouvelables.org/observ-</u> er/html/energie_renouvelable_france.asp

Official French RES data, https://www.statistiques.developpement-durable.gouv.fr

Member State Progress Report, available at the Renewable Energy pages of the European Commission, <u>http://ec.europa.eu/energy/en/topics/renewable-energy</u>

Individual RES investment support scheme, <u>https://www.maprimerenov.gouv.fr</u>

National Energy and Climate Plans (NECPs), <u>https://ec.europa.eu/energy/en/topics/energy-strategy-and-energy-union/governance-energy-union/national-energy-climate-plans</u>

What is meant by ...?

Auctions for granting renewable energy support	An auction is a process of granting production or investment support to renewable energy projects based on the lowest bids by eligible project developers.
Feed-in tariff (FiT)	A support scheme which provides for a technology-specific remuneration per unit of renewable energy payable to eligible renewable energy producers. A proper, periodic review of FiT rates is often undertaken with the aim to prevent both too high FiTs so as to minimise regulatory rents, i.e. supra-normal returns and too low FiTs to preclude below-target market uptake because of FiT levels that are perceived by market participants to be less attractive. In addition, feed-in tariffs often include "tariff degression", a mechanism according to which the price (or tariff) ratchets down over time.
Feed-in premium (FiP)	A scheme which provides for a support level per unit of renewable energy to eligible renewable energy producers, typically for a period of 10-20 years, at a pre-set fixed or floating rate. The premium is typically adjusted periodically to exactly offset change in the average energy wholesale market price, based on a pre-specified benchmark market price. A floating FiP may move freely or may only be allowed to move within a pre-set interval.
Grants	Grants are non-repayable funds disbursed by one party (grant makers), often a government department, corporation, foundation or trust, to a recipient, often (but not always) a non-profit entity, educational institution, business or an individual. (Source: Wikipedia.org)
Green public procurement	In Green public procurement contracting authorities take environmental issues into account when tendering for goods or services. The goal is to reduce the impact of the procurement on human health and the environment. (Source: Wikipedia.org)
Renewable quota scheme (RQS)	A RQS mandates certain market actors (typically retail suppliers or large energy end-users) to respect a pre-set minimum share or amount of their total energy procurements from renewable sources of energy. Typically a tradable green certificate (TGC) scheme is operated to enable the obligated parties to prove their compliance with the prevailing renewable quota target by means of TGCs.
Sliding feed-in- tariff	A FiT scheme which pre-sets technology-specific declining feed-in tariffs for certain prospective vintages in line with the technology-specific learning curve, as projected by the National Regulatory Agency (NRA). Often a degression rate is used indicating the %/annum decrease in the rate level.
Soft loans	Loans at concessional (below market-based) terms, for example at sub-market-conform interest rates, made available in several Member States to stimulate certain renewable energy technologies.
Tax credits	These are amounts a tax paying entity is allowed to deduct when declaring payable taxes, for example company tax or income tax, to the tax authorities , for example the producer tax credits (PTCs) used in the United States to stimulate among others wind energy deployment.



Disclaimer

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