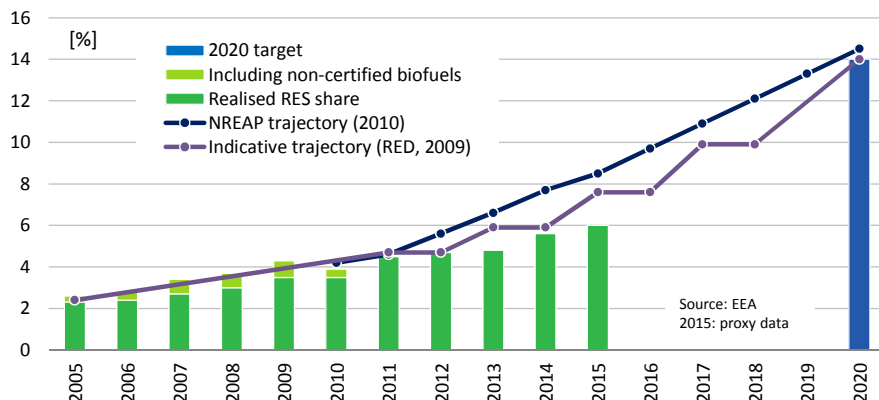


### Summary

Main support scheme: sliding feed-in premium scheme which is used to promote RES based electricity, renewable gas and heating purposes is the SDE+ which is structured as feed-in premiums and financed through a levy on the energy bill of end consumers.



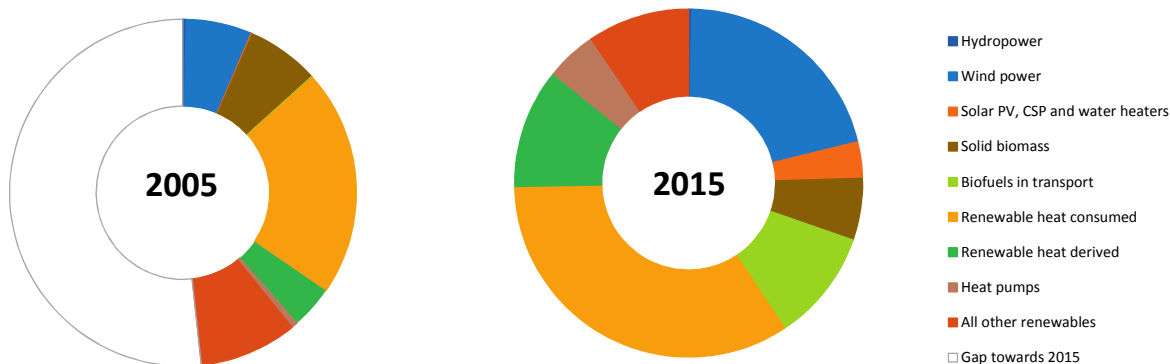
Source: EEA  
2015: proxy data

### Abbreviations used:

RES: renewable energy sources  
RES-E: renewable electricity  
RES-H/C: renewable heating/cooling  
RES-T: renewable transport fuels

### Data for 2015

Overall RES share:	5.8%	Avoided fossil fuels:	4.1 [Mtoe]
Overall RES 2020 target:	14.0%	Avoided fuel expenses:	1.1 [billion euro]
Share RES-E in electricity:	11.1%	RES Turnover:	3595 [MEUR]
Share RES-T in transport:	5.3%	RES Employment:	26850 [jobs]
Share RES-H/C in heating:	5.5%		



Source: Eurostat, 2017

	2005	2015		
	Energy	Energy	Employment	Turnover
Hydropower	8.6 ktoe	8.5 ktoe	0 Jobs	0 MEUR
Wind power	174.9 ktoe	594.7 ktoe	6300 Jobs	1500 MEUR
Solar PV, CSP and water heaters	3.0 ktoe	96.4 ktoe	7250 Jobs	685 MEUR
Solid biomass	193.2 ktoe	163.1 ktoe	4100 Jobs	400 MEUR
Biofuels in transport	2.4 ktoe	296.0 ktoe	2800 Jobs	300 MEUR
Renewable heat consumed	601.9 ktoe	967.1 ktoe		
Renewable heat derived	114.2 ktoe	317.0 ktoe		
Heat pumps	16.9 ktoe	135.0 ktoe	4400 Jobs	390 MEUR
All other renewables	260.3 ktoe	269.2 ktoe	2000 Jobs	320 MEUR
Gap towards 2015	1471.6 ktoe			

Source: Eurostat, EurObserv'ER, 2017

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***

In September 2013, the Dutch government signed an Energy Agreement with more than forty parties involved in the energy market, including NGOs, regional and local governments, financial institutions, employers' associations and unions, and other civil-society organisations. The Energy Agreement aims to align the interests of industry, civil society and government towards the key objectives of sustainable and secure energy supply, industrial competitiveness and affordability for the consumers. At present, it is the most important document for the short term ambitions in the energy sector, and includes renewable energy (RES) ambitions and targets to 2023 and a broad range of measures to scale up RES generation. The agreement has triggered important improvements in the framework conditions for RES generation. For example, the responsibility for investigating site conditions for offshore wind deployment has been taken over by the government; permits and subsidies are now coordinated; and TenneT (the Dutch TSO) has been assigned the responsibility for offshore grid connections. These measures have contributed to far better investment conditions for offshore wind development.

More recently, the Dutch government presented in December 2016 its Energy Agenda. It is intended as a long-term perspective for the period after 2023.. Among others, the plan stipulates that no new cars with combustion engines may be sold from 2035 on, and the removal of the legal requirement for households to be connected to the gas networks.. The intention of the latter is to reduce the use of gas, and replace the energy demand of households with renewable electricity and heating.

In accordance with 2009/28/EC directive, the Netherlands has set a RES target is 14% and a binding target of 10% renewable energy in road transport by 2020. In addition, the Energy Agreement includes a RES target of 16% by 2023 as well as a target of 4.5GW offshore wind by 2023. The Wind Energy Roadmap ('Rijksstructuurvisie Windenergie op Zee') outlines how offshore wind energy generation capacity is to be increased to 4,500 MW in 2023. For onshore wind power, there is an agreement with provinces to achieve 6,000 MW by 2020.

## ***OVERVIEW OF MAIN SUPPORTING POLICIES***

The main renewable energy policy used to incentivise investment in renewable energy projects in the Netherlands is the SDE (which was amended and renamed as the SDE+ in 2011). SDE and SDE+ incentives are structured as feed-in premiums and financed through a levy on the energy bill of end consumers. The Dutch government has announced that it will spend €12 billion on subsidies for renewable energy projects in 2017. Additional instruments to promote RES include loans, additional subsidy schemes, net-metering and various tax benefits. For offshore wind, a tendering scheme is available under the SDE+. The Netherlands has adopted an obligation scheme which should result in a 10% RES share of energy consumption in the transport sector. Tax credits exist for biofuel and hydrogen related RES-T investments. Additionally, the Netherlands Enterprise Agency facilitates market parties and specific organisations to establish training and certification facilities for RES installers and installations. Innovation in energy is supported through innovation contracts between private companies, universities, R&D institutes. In the framework of the Energieinvesteringsaftrek (EIA – Energy Investment Allowance), tax credits are available for RES-H&C infrastructure. The EIA

offers a tax deduction for enterprises investing in renewable electricity and heat of up to 41.5% of the investment costs. More details are provided in Table 1 and Table 2 below.

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

	REGULATORY POLICIES					FISCAL INCENTIVE AND PUBLIC FINANCES			
	Feed-in premium (SDE+)	Tendering	Quota obligation with Tradable Green certificates	Quota obligation without Tradable Green certificates	Net-metering/ net-billing	Capital subsidy, grants (e.g. ISDE) <sup>1</sup>	Tax regulation mechanism I (EIA)	Tax regulation mechanism II (MIA/VAMIL)	Loans
<b>RES-E</b>									
- Offshore wind	o	o					o	o	
- Onshore wind	o						o	o	o
- Solar	o				o		o	o	o
- Hydro	o						o	o	o
- Geothermal	o						o	o	o
- Solid biomass	o						o	o	
- Biogas	o						o	o	
<b>RES-H/C</b>									
- Solar thermal	o								o
- Geothermal	o								o
- Biomass	o						o		
- Biogas	o						o		
- Small scale installations, e.g. solar thermal collects, heat pumps, biomass boilers and pellet stoves						o	o		
- Others, i.e. aerothermal, hydrothermal							o		
<b>RES-T</b>									
- Bio gasoline			o					o	
- Biodiesel			o					o	

Sources: EurObserv'ER, GSR/REN21, RES-Legal Europe (2017)

<sup>1</sup> Note for the editor: use footnotes to add more information if appropriate.

Table 2: Brief description of key policy instruments aimed at promoting RES in the Netherlands

<b>Instrument</b>	<b>Description</b>
<b>SDE+: Incentive Scheme for Sustainable Energy Production</b> <i>Stimulerend Duurzame Energieproductie</i>	Sliding feed-in premium scheme which is used to promote RES based electricity, renewable gas and heating purposes. SDE+ subsidies are allocated through a quasi-tendering process, where energy producers compete against each other for feed-in premium support. It encompasses a system of phased admission, six in total, with escalating base tariffs which favours low cost RES options.
<b>ISDE: Sustainable energy investment subsidy scheme</b> <i>Investeringssubsidie Duurzame Energie</i>	Provides both private persons and small-scale business with a subsidy for the purchase of solar thermal collectors, heat pumps, biomass boilers, and pellet stoves.
<b>EIA: Energy Investment Allowance</b> <i>Energie investeringsaftrek</i>	A tax relief programme which gives a direct financial advantage to companies that invest in energy-saving equipment and sustainable energy. Entrepreneurs may deduct 44% of the investment costs for such equipment (purchase and/or production costs) from their company's pre-tax profits, over the calendar year in which the equipment was purchased. The business assets that qualify for the EIA for the year 2016 are set out in the Energy List 2016. The list contains more than 160 energy-saving technologies and is divided into five categories: 1. business premises; 2. processes; 3. means of transport; 4. renewable energy; 5. energy advice.
<b>MIA/VAMIL: Environmental Investment Rebate</b> <i>Milieu-investerings aftrek</i> <b>Arbitrary depreciation of environmental investments</b> <i>Willekeurige afschrijving milieu-investeringen</i>	The MIA scheme, offering a tax refund on environmental investment, and the Vamil scheme providing for voluntary depreciation on environmental investment, are two different schemes run by the Ministry of Infrastructure and the Environment, or I&M for short, and the Ministry of Finance. The aim of both of them is to encourage Dutch entrepreneurs to invest in their business operations in an environmentally friendly way. The MIA scheme allows you to deduct up to 36% of the cost of an environmentally friendly investment from your fiscal profit while the Vamil scheme lets you decide for yourself when to write off 75% of your investment costs. You determine how fast or slow that will be.
<b>Green fund</b>	The Dutch government gives a tax benefit to consumers who invest or put their savings in a green fund, which enables banks to offer loans at lower interest rates to 'green' projects. For a project to qualify for such a loan it should apply for a declaration on the basis of the Regulation Green Projects 2016. The declaration is valid for 10 or 15 years depending on the application.
<b>Green Deal Programme</b>	Introduced by the Dutch government in 2011 with the aim of identifying sustainable projects (not only energy related) that would benefit from streamlined permitting and planning procedures, specific advice and/or the introduction of public-private funding structures. Eligible projects vary from large-scale geothermal research projects, industrial heat utilisation projects and smart grid projects, to smaller-scale biomass projects in the horticultural industry. Support provided is focus on facilitation (non-financial) rather than direct subsidisation.

### ***For further information:***

Dutch 2013 Energy Agreement, <https://www.government.nl/topics/energy-policy/contents/energy-agreement-for-sustainable-growth>

EEA, 2017. [1] EEA, 2017 [http://www.eea.europa.eu/data-and-maps/daviz/actual-res-progress-indicative-trajectory-2#tab-chart\\_3\\_filters=%7B%22rowFilters%22%3A%7B%7D%3B%22columnFilters%22%3A%7B%22pre\\_config\\_country%22%3A%5B%22European%20Union%22%5D%7D%7D](http://www.eea.europa.eu/data-and-maps/daviz/actual-res-progress-indicative-trajectory-2#tab-chart_3_filters=%7B%22rowFilters%22%3A%7B%7D%3B%22columnFilters%22%3A%7B%22pre_config_country%22%3A%5B%22European%20Union%22%5D%7D%7D)

Energy Agenda 2050, *Energieagenda: naar een CO<sub>2</sub>-arme energievoorziening*, (December 2016), <https://www.rijksoverheid.nl/documenten/rapporten/2016/12/07/ea>

Global Status Report by REN21  
[http://www.ren21.net/wp-content/uploads/2016/10/REN21\\_GSR2016\\_FullReport\\_en\\_11.pdf](http://www.ren21.net/wp-content/uploads/2016/10/REN21_GSR2016_FullReport_en_11.pdf)

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

MIA/VAMIL, <http://www.rvo.nl/sites/default/files/2014/02/MIA%20and%20Vamil.pdf>

RES Legal database, <http://www.res-legal.eu/search-by-country/netherlands/>

Rijksstructuurvisie Windenergie op Zee (2014)  
[https://www.noordzeeloket.nl/images/Rijksstructuurvisie\\_Windenergie\\_op\\_Zee\\_3390.pdf](https://www.noordzeeloket.nl/images/Rijksstructuurvisie_Windenergie_op_Zee_3390.pdf)

SDE+ subsidy programme, <http://english.rvo.nl/subsidies-programmes/sde>

## ***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 depression", 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 depression 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.



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