

# Dacia Spring

EXTREME 65 ELECTRIC FWD AUTOMATIC



## Sustainability Rating

2025



100%



Clean  
Air

10.0 /10



Energy  
Efficiency

10.0 /10



Greenhouse  
Gases

10.0 /10

## Driving Experience



Consumption  
& Range

● ADEQUATE



Cold Winter  
Performance

● POOR



Charging  
Capability

● ADEQUATE

## Our verdict

The new Spring, Dacia's supermini, is the first car to achieve 100% in Green NCAP's rating. Tested here is the 48 kW version. The vehicle is designed for urban use and its sustainability analysis profits from its minimalism – the car weighs only 979 kg and features a very small battery of 27.6 kWh usable capacity. The light weight and the small battery are advantageous for all indices. The measured consumption values are not as low as could be expected for such a vehicle, which might be the consequence of compromises with powertrain and heating system efficiency.

- › The Spring has no tailpipe emissions and scores top marks for tyre and brake abrasion due to its low weight and rear drum brakes. Production and energy supply emissions are below Green NCAP thresholds.
- › While generally low, the in-lab measured energy use is higher than expected for such a small car. The on-road test, however, showed very low consumption of 15 kWh/100 km in the mixed scenario and only 11.7 in the short urban trip.
- › The Spring's small size, low mass and tiny battery earn it full points. Lifecycle emissions are 90.4 g CO<sub>2</sub>-eq./km, of which 50 come from the car's production in China. Europe's relatively clean electricity mix supports its performance.

### Disclaimer

Think before you print





## Clean Air

10.0 /10

### Comments

The Spring has no tailpipe emissions and scores maximum points on tyre abrasion due to its very low weight. Additionally, the strong brake energy recuperation in normal conditions and the use of drum brakes on the rear axle, which do not allow brake dust to enter the environment, ensure a top performance in brake abrasion reduction as well. The pollutant emissions associated with the production of the vehicle and its battery, as well as those related to the supply of the electric energy, are below the lower Green NCAP thresholds.

## Exhaust emissions

Exhaust pollutant emissions are produced from combustion engines. Although current emission legislation is very strict, this type of emission directly affects air quality, and not all vehicles perform equally well. [Read more](#)

GOOD

10.0 /10

### In laboratory

Green NCAP performs a wide range of tests on cars in the laboratory. This is the best way to ensure controlled conditions and guarantee that all cars are tested in the same way, making their results comparable. [Read more](#)

GOOD

10.0 /10

	NMHC	NO <sub>x</sub>	NH <sub>3</sub>	CO	PN	PM	Score
Legal test (WLTP)	●	●	●	●	●	●	8.0 /8
Warm weather	●	●	●	●	●	●	10.0 /10
Highway	●	●	●	●	●	●	10.0 /10
Winter cold start	●	●	●	●	●	●	10.0 /10
Winter warm start	●	●	●	●	●	●	10.0 /10

### On road

An on-road driving test, using portable emissions measuring equipment, complements Green NCAP's laboratory tests. [Read more](#)

GOOD

10.0 /10

	NMHC	NO <sub>x</sub>	NH <sub>3</sub>	CO	PN	PM	Score
Real-world mixed drive	●	●	●	●	●	●	10.0 /10
Short city trip	●	●	●	●	●	●	10.0 /10
Congestion	●	●	●	●	●	●	2.0 /2

good

adequate

marginal

weak

poor

not applicable



## Clean Air

**10.0** /10

### Non-exhaust emissions

Driving a vehicle also produces emissions different from those of the exhaust pipe. Green NCAP evaluates vehicle properties that contribute to tyre and brake abrasion.

GOOD

**10.0** /10

#### Tyre wear

GOOD

**6.0** /6

Tyre abrasion releases small particles during driving, and some vehicle properties have major impact on it. Heavier vehicles, wheel alignment causing increased slip angle, and aggressive acceleration responses all increase tyre wear and particle emissions. [Read more](#)

**Influence of mass**

Result

**3.0** /3**Wheel alignment**

Result

**1.0** /1**Accelerator response**

Result

**2.0** /2

#### Brake wear

GOOD

**6.0** /6

Brake dust, produced by friction brakes, can be mitigated through filters, enclosed brake systems (like drums), or by reducing friction brake use with regenerative braking in electrified vehicles. Containment keeps dust inside the system, while recuperation lowers brake wear. However, heavier vehicles still generate more brake abrasion due to their greater stopping demands. [Read more](#)

**Brake dust mitigation**

Result

**0.0** /4**Brake dust containment**

Result

**3.0** /6**Recuperative braking - warm test**

Result

**6.0** /6

good

adequate

marginal

weak

poor

not applicable



## Clean Air

10.0 /10

## Additional Life Cycle Assessment information

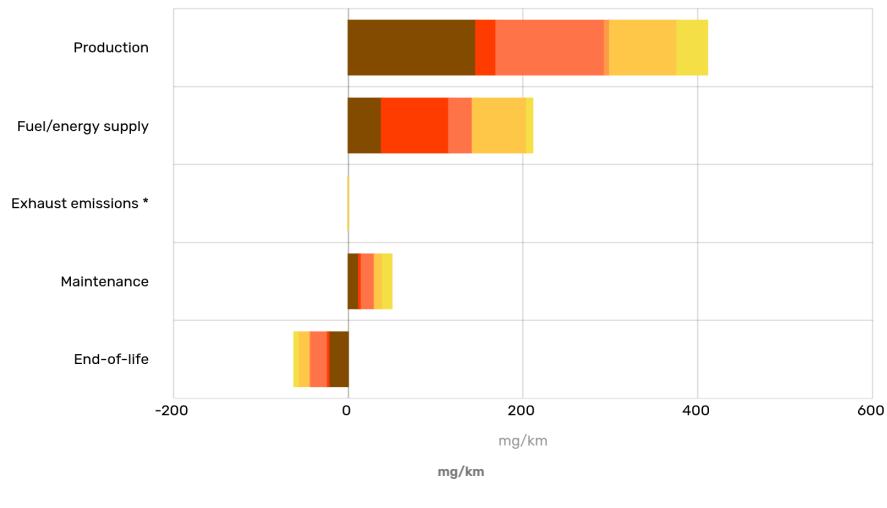
Life Cycle Assessment (LCA) investigates the environmental impact of a car over its entire lifetime, 'from cradle to grave'. In this section, pollutants are estimated in the various stages of a vehicle's life other than use. The chart also displays the measured emissions related to usage, which are taken as an average from the tests and are scored separately in the 'Exhaust emissions' part above. The end-of-life approach uses results in negative values because the benefit of materials recovery and recycling exceeds the effort of obtaining and processing virgin raw materials.

GOOD

10.0 /10

## Pollutants

Most of the vehicle exhaust pollutant species are also emitted in others life cycle phases. These are health- and nature-damaging compounds, the amount of which should be reduced as well.



\* Exhaust emissions are not contributing to the score in Additional Life Cycle Assessment information because they are scored in the Exhaust emissions section above



good

adequate

marginal

weak

poor

not applicable



## Energy Efficiency

**10.0** /10

### Comments

The consumption values are low but, surprisingly, more could have been expected by a vehicle of such size and mass. The light weight certainly helps, but the electricity use could have been lower, as Green NCAP has observed with other city and supermini vehicles. The numbers include the charging and discharging losses of home charging. None of the in-lab test consumption values is as low as the 13.3 kWh/100 km from the legal test. Naturally, the Highway Test increases the demand, although the car did not reach a speed higher than 125 km/h. The energy demand difference is low between the cold and warm start winter tests at -7°C. A PTC heater is used for the heating. The on-road test showed very low consumption of 15 kWh/100 km in the mixed scenario and only 11.7 in the short urban trip. The energy needed in the other life cycle phases is low and in total the car's lifetime primary energy demand stays below the thresholds.

## Energy demand

GOOD

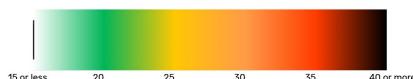
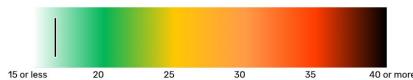
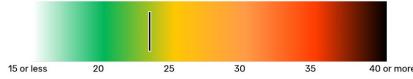
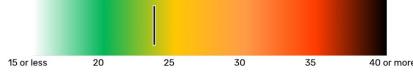
**10.0** /10

### Propulsion energy consumption in laboratory

GOOD

**10.0** /10

The vehicle's measured consumption figures are displayed in the bar chart. The colour scheme positions the values relative to low and high figures in a typical range. The ranges are different for combustion engine and pure electric vehicles.

**Legal test (WLTP)****Warm weather****Highway****Winter cold start****Winter warm start****good****adequate****marginal****weak****poor****not applicable**



## Energy Efficiency

**10.0** /10

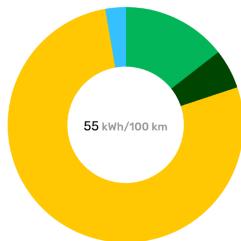
### Additional Life Cycle Assessment information

GOOD

**10.0** /10

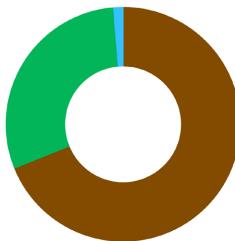
Life Cycle Assessment (LCA) investigates the environmental impact of a car over its entire lifetime 'from cradle to grave'. In this section, the total vehicle life cycle primary energy demand is displayed. The scoring does not consider the direct propulsion energy use, because it is scored separately in the 'Propulsion energy consumption in laboratory'.

#### Total LCA energy consumption



- Production & recycling 14.5%
- Battery production 5.4%
- Fuel/energy supply \* 77.4%
- Maintenance 2.7%

#### Energy source share in total LCA consumption



- Fossil 68.9%
- Renewable 29.8%
- Other 1.3%

Direct propulsion energy share is not shown, it is included in 'Fuel/energy supply'.

## Rolling resistance

Rated here is the vehicle's resistance to movement at low speeds. Different factors have an impact on it, but the most significant one is mass.

GOOD

**10.0** /10

good

adequate

marginal

weak

poor

not applicable





## Greenhouse Gases

10.0 /10

### Comments

The relatively low consumption figures, the small size and the low mass, as well as the very small battery ensure the Spring collects all points in this index, as well. The total life cycle greenhouse gas emissions are calculated to 90.4 g CO<sub>2</sub>-eq./km, of which 50 are contributed by the vehicle production in China. The comparably low greenhouse gas intensity of average European electricity generally benefits all electric cars.

## Exhaust GHG emissions

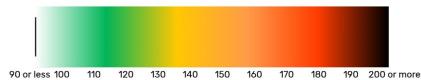
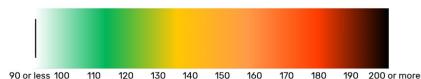
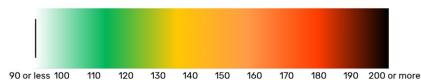
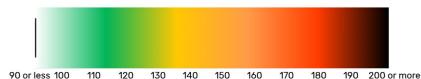
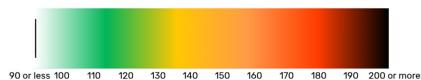
Combustion of conventional fuels releases greenhouse gases at the vehicle's tailpipe. The most significant of these gases are the emissions of CO<sub>2</sub>. Green NCAP's assessment considers methane (CH<sub>4</sub>) and laughing gas (N<sub>2</sub>O) as well. Together, these are counted with their global warming potential to a sum known as CO<sub>2</sub> equivalent.

GOOD

10.0 /10

### In laboratory

Green NCAP performs a wide range of tests on cars in the laboratory. This is the best way to ensure controlled conditions and guarantee that all cars are tested in the same way, making their results comparable. [Read more](#)

**Legal test (WLTP)****Warm weather****Highway****Winter cold start****Winter warm start**

good

adequate

marginal

weak

poor

not applicable



## Greenhouse Gases

10.0 /10

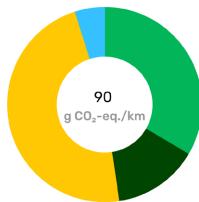
## Additional Life Cycle Assessment information

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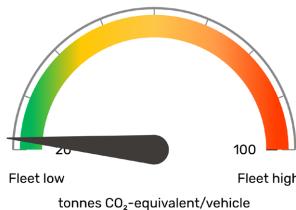
Adequate

8.4 /10

## Total LCA GHG emissions



- Production & recycling 33.5%
- Battery production 14.2%
- Tailpipe emissions \* 0.0%
- Fuel/energy supply 47.5%
- Maintenance 4.9%



Vehicle Life Cycle average emissions **22** (+/-)  
(best **18** | worst **24**)

\* The scoring does not consider the direct exhaust GHG emissions at the tailpipe, because they are scored separately in 'Exhaust GHG emissions' above.



good

adequate

marginal

weak

poor

not applicable



## Driving Experience



### Consumption & Range

● ADEQUATE



### Cold Winter Performance

● POOR



### Charging Capability

● ADEQUATE

#### Green NCAP Comment

The Spring is positioned in the low-end price range and this might become visible in some aspects of daily use. Tested here is the top trim 'extreme', which brings the highest equipment level.

- › The estimated warm weather real-world consumption values of the Dacia are all in the 'adequate' range which is, as stated for the Energy Efficiency Index, rather surprising for such a small and light vehicle. Due to the relatively low additional energy use for heating, the winter consumption estimations show 'good' values in urban and mixed driving, which eventually turns the overall result in this section to 'good'. However, with a battery that small, all estimated driving ranges are 'poor', meaning that users should plan their trips and charging opportunities carefully. The consumption readings on the board computer display are good enough.
- › The Spring does not make any noteworthy winter driving range benefit of preheating while plugged, due to the small battery and the little difference between the cold and warm start winter tests. The heating is manually controlled and it needs to work at its maximum or close to it at most of the time to provide thermal comfort at -7°C. The small Dacia surprisingly reached very quickly the 16°C target temperature in front and rear head area, but neglected the footwell. The front compartment needed significantly more than the duration of one entire test to get to the target temperature, while the rear foot area did not reach it at all. The Dacia cannot be equipped with any additional heating functions and only relies on its PTC heater. A highlight in the top trim version is the possibility to schedule or remotely activate the cabin heating. The cabin thermal insulation is evaluated as 'poor'.
- › At home AC charging, the vehicle could take approx. 7 kW and demonstrated a slightly below standard grid-to-battery output efficiency of 86.3%. Fast charging is not its strength, as it could only reach a maximum DC power of 34 kW and needed 40 minutes to recharge from 10 to 80% SoC. Given the small battery, the recharged range per minute is also minimal. However, the top version of the Spring offers an unexpected nice-to-have function of vehicle-to-load 230 V energy supply for external devices of up to 3.7 kW power. Along with the Hyundai Inster, the Spring demonstrates that this feature should not be reserved only for premium high-power vehicles, and can contribute to a better user experience.



## Consumption & Range

ADEQUATE

### Estimated actual consumption

**What consumption can be expected in real world conditions?**

In-laboratory measured consumption values are only partially representative of real-world use. Green NCAP's estimates aim at providing more realistic figures, which are based on measured results, modified by correction factors.

GOOD

Conditions	Urban	Rural	Highway	Mixed	
Warm weather	16.8	17.3	20.0	17.7	kWh/100 km
Cold Winter	23.6	20.9	26.9	24.0	kWh/100 km

### Driving range

POOR

**What driving range can be expected in real world conditions?**

Of special importance to consumers is the real-world driving range of electric vehicles. Green NCAP estimates this based on measured data, modified by correction factors.

Conditions	Urban	Rural	Highway	Mixed	
Warm weather	190	185	160	180	km
Cold Winter	135	153	119	133	km

### Accuracy of display

ADEQUATE

**Is the consumption figure on the display correct?**

good

adequate

poor

not applicable





## Cold Winter Performance

POOR

### Driving range benefit of pre-warming

POOR

How much further can you drive in winter, if the car is pre-warmed?

A cold vehicle has increased energy consumption at the start of its trip, mostly due to the cabin heating demand. Pre-warming the car while it is plugged, when possible, can significantly benefit its driving range in cold weather conditions. Green NCAP's winter tests are performed at -7°C.

Type	Driving Range Benefit	Result
Urban trip	+14 km	
Mixed trip	+4 km	

### Cabin heating

ADEQUATE

Does the vehicle get warm quickly in winter?

This indicates the time needed to reach 16°C in seconds at different positions in the cabin after the cold vehicle has been started at -7°C ambient temperature.

	Front	Rear
Head area	175 s	386 s
Footwell	2,660 s	

The target temperature in the front and rear footwell was not reached during the test.



good

adequate

poor

not applicable



## Cold Winter Performance

POOR

### Additional heating functions

#### What functions can be used to improve heating comfort?

Unlike a combustion car, which usually uses the engine's waste heat to provide warmth to the cabin, in electric vehicles, the energy needed comes from the battery. Therefore, there is a trade-off between thermal comfort and energy consumption. Some additional heating functions can deliver good thermal comfort performance at lower energy use compared to heating up the entire cabin. If they can be scheduled or remotely activated before a trip, while the vehicle is still plugged, both comfort and driving range can be notably improved.

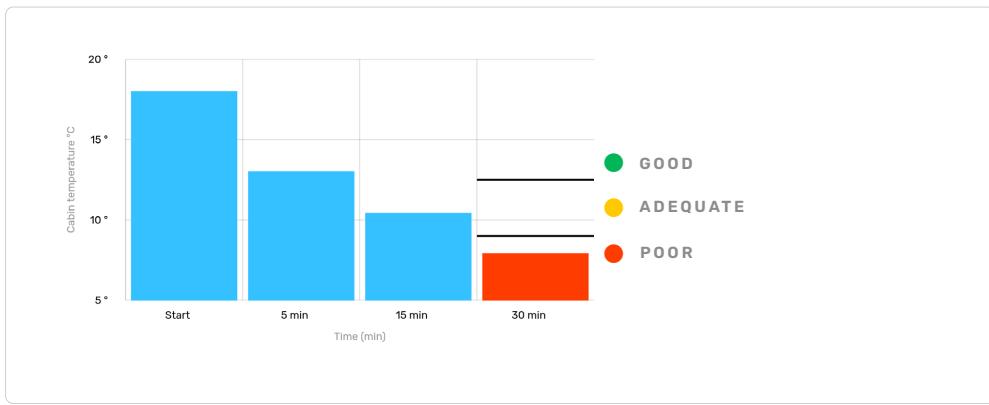
	Y/N	Fitment
Heat pump		
Seating heating front		
Seating heating rear		
Steering wheel heating		
Scheduled pre-heating of seats		
Scheduled steering wheel pre-heating		
Scheduled cabin air pre-heating		Standard for the tested version
Smart cabin heating management		

### Cabin thermal insulation

POOR

#### How well does the cabin maintain its temperature?

Assessed here is the average cabin temperature drop after 30 minutes, starting from 18°C when the outside temperature is -7°C and the vehicle is inactive.





## Charging Capabilities

ADEQUATE

### Battery pre-conditioning

Does the vehicle have the ability to optimize the battery temperature for fast charging?

Fast charging is quicker when the battery temperature is in a certain range, and many vehicles possess the function to actively prepare for a coming fast charging event. Most use the charger destination in the navigational system to control the process, and some would offer a manual activation function.

	Manual	Automatic
Battery pre-conditioning		

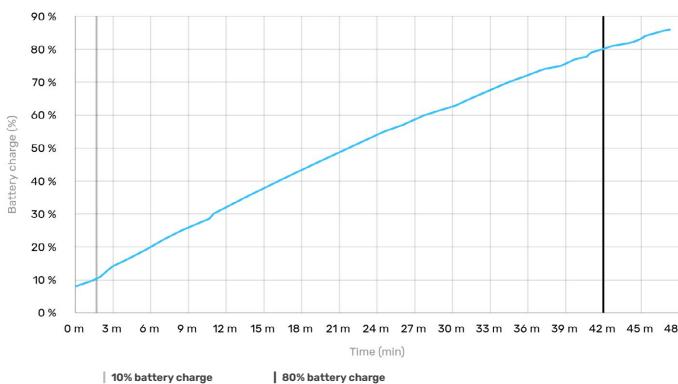
### Fast charging

POOR

Green NCAP's fast charging test verifies the vehicle's ability to recharge fast, which is crucial at long trips or tight schedules. Although constantly improving, not all vehicles offer the same capabilities.

#### Charging time

How quickly can the battery charge?



good

adequate

poor

not applicable



## Charging Capabilities

ADEQUATE

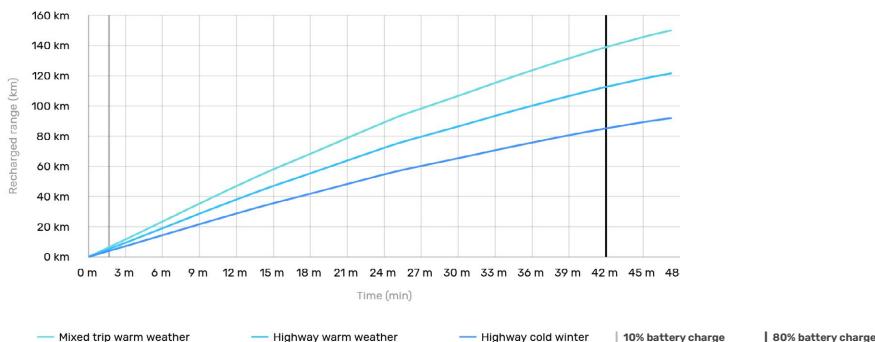
### Fast charging

Green NCAP's fast charging test verifies the vehicle's ability to recharge fast, which is crucial at long trips or tight schedules. Although constantly improving, not all vehicles offer the same capabilities.

POOR

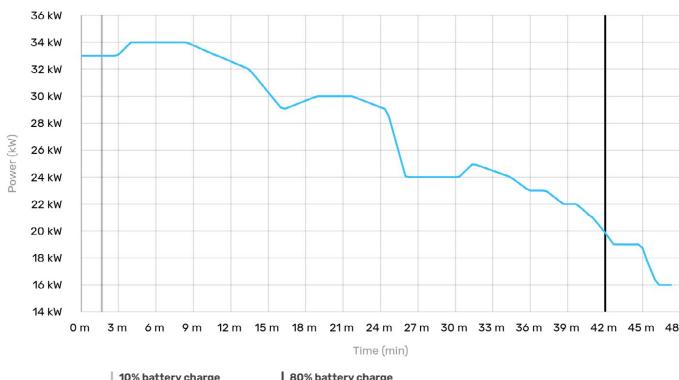
#### Recharged range gain per charging time

How long do you need to fast charge to drive a certain distance?



### Charging power

How quickly does energy flow into the battery, depending on its charge level?



good

adequate

poor

not applicable



## Charging Capabilities

ADEQUATE

### Home charging efficiency

Is charging at home efficiently utilizing the energy withdrawn from the grid?

The assessed efficiency value is the grid-to-battery-output efficiency, which describes what share of the energy taken from the electricity grid is available for the vehicle to use for propulsion and other auxiliary functions. The value encompasses not only the charger efficiency but considers several other losses as well.

**Home charging efficiency**

86%

**Maximum home charging power**

7.0 kW Optional

### Bidirectional charging

ADEQUATE

How capable is the vehicle of supplying energy from its battery to other devices or systems?

Bi-directional charging is available in some vehicles and is gaining increasing popularity. It comes with different power and functionality levels. However, battery usage for purposes additional to regular vehicle driving and charging might be disadvantageous for its durability and manufacturers might introduce limitations to protect it.

#### Power output

3.7 kW

**Fitment:** Standard for the tested version

#### Compatibility



##### Vehicle-to-Load (V2L)

The inlet or the interior socket can provide AC power through an electrical domestic socket.



##### Vehicle-to-Household (V2H)

The vehicle can provide power to a household through a charger.



##### Vehicle-to-Grid (V2G)

The vehicle can return power to the grid.

**Fitment:** Standard for the tested version

#### Grid integration



##### Basic

No integration (just a socket for a stand-alone load). No scheduling option. Very basic visualisation.



##### Limited

Energy management system through the vehicle app (timers availability and power monitoring). Dedicated interface in the car, with mobile app monitoring.



##### Advanced

Advanced settings available such as tariff and consumption control, linked to distributor energy prices. Advanced real time energy flow visualisation. AI powered suggestions for optimal usage.

good

adequate

poor

not applicable

## Specifications

**Vehicle class****City and Supermini****System power/torque****48 kW / 113 Nm****Engine size****n.a.****Declared consumption****13.3 kWh/100 km****Declared driving range****Overall 228 km****City 336 km****Declared CO<sub>2</sub>****n.a.****Declared battery capacity****Usable (net) 27.6 kWh****Installed (gross) 28.6 kWh****Mass****979 kg****Heating concept****PTC heater****Tyres****165/70 R14****Emissions class****AX****Tested car****UU1DBG008RU17xxxx****Publication date****11 2025**

