

New economical and ecological engines for Dacia

- Dacia broadens its offer of economical and ecological engines.
- In keeping with its environmental strategy, Dacia is now offering engines running with alternative energies, LPG and E85 bioethanol, along with the new 1.2 16V petrol engine.
- Introduced across Europe in 2009:
- Sandero 1.4 LPG, Logan 1.4 LPG and Logan MCV 1.6 LPG
- Sandero 1.6 E85
- Sandero 1.2 16V and Logan 1.2 16V

1.4 LPG (75hp) and 1.6 LPG (90hp) ENGINES*

LPG FUEL

An ecological fuel:

- CO_2 emissions reduced by up to 12 per cent compared with petrol power.
- reduced polluting emissions (NOx, particulates, etc.).

An economical fuel:

- a very competitive price at the pump.
- eligible for tax incentives in several countries (France, Italy, Ireland, Portugal, Germany, etc.).

A readily available fuel:

• 32,000 service stations serve LPG in Europe

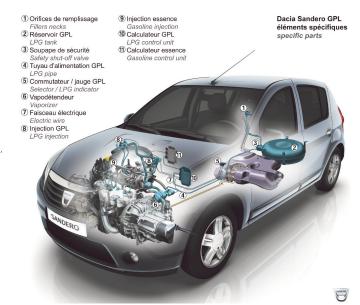
LPG VEHICLES

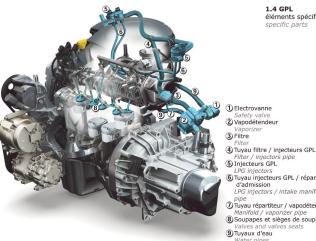
LPG vehicles are silent (60% quieter than diesel-powered vehicles).

LPG vehicles are dual-mode petrol/gas vehicles (the driver only has to activate a switch to select the petrol or gas mode) and benefit from record range. Sandero 1.4 LPG: up to 1 200 km covered with a full tank of petrol and a full tank of LPG.

LPG vehicles are **safe**: safety standards enforced in Europe are very strict. The fuel tank (steel and composite materials) is extremely resistant and is equipped with five safety accessories: a non-return valve, an 80 per cent tank-fill limiter, fuel flow limiter, solenoid and shut-off valve.

LPG vehicles are easy to service: servicing intervals identical to those of petrol engines (every 30,000km or two years) with maintenance of specific LPG elements.





éléments spécifiques

2 Vapodétendeur

(§) Tuyau injecteurs GPL / répartiteur d'admission LPG injectors / intake manifold

pe yau répartiteur / vapodétendeur

Manifold / vaporizer pipe

Soupapes et sièges de soupapes

1.6 E85 BIOETHANOL (90hp)*

F85 BIOFTHANOL

An ecological fuel:

- a renewable, diversified form of energy which reduces dependency on fossil fuels.
- up to 70 per cent less 'well-to-wheel' CO₂ emissions compared with an all-petrol engine (i.e. from the source of production, including plant-growth, to end-use, including transport or distribution).

Sandero 1.6 E85: 'Well-to-wheel' emissions of 130g $\rm CO_2/km$ running on sugar beet/wheat-based E85 fuel as produced in France, and $\rm 60g~CO_2/km$ with sugarcane-based E85 fuel as available in Sweden.

An economical fuel:

- a very competitive price at the pump.
- eligible for tax incentives (France, Sweden, Czech Republic, etc...).

THE 1.6 E85 ENGINE

A dual-fuel petrol/E85 engine.

A robust and reliable engine:

- an engine which benefits from all Renault expertise in the bioethanol field.
 Renault has been manufacturing and commercializing Flex Fuel engines running with E100 ethanol since 2004.
- specific engine elements: sodium-filled valves which are extremely resistant to high temperatures, optimized cylinder head cooling and oil jet-cooled pistons.

Genuine driving pleasure, even at low revs: performance identical to that of the 1.6 petrol engine.

THE 1.2 16V ENGINE (75hp)*

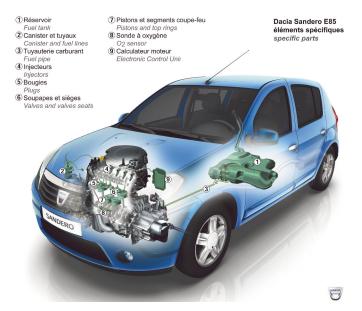
An ecological engine:

• Sandero 1.2 16V and Logan 1.2 16V emit just 139g of CO₂/km.

An economical engine:

- combined cycle fuel consumption of just **5.9 litres/100km**.
- development work has enabled the idle speed to be lowered to 650rpm (instead of 750rpm) for a fuel consumption gain in built-up areas of between 2 and 3%. It is the first Renault engine to run with such a low idle speed.

Easy-to-service: servicing intervals every 30,000km or two years.





1.6 E85 éléments spécifiques specific parts

1 Injecteurs

2 Soupapes d'admission

3 Sièges de soupapes d'admission

Soupapes d'échappement

Sièges de soupapes d'échappement

(6) Bougies

Plugs

(7) Segments coupe-feu

8 Pistons

^{*} For engine technical data, please refer to the back of each vehicle sheet.







Dacia eco², economical and ecological

- With Dacia eco², Dacia shows that marketing affordable cars that are respectful of the environment is achievable.
- The Dacia eco² signature has been launched at the Paris Motor Show in September 2008 and introduced in showrooms from the start of 2009.
- The Dacia eco² signature is based on criteria as exacting as those which apply to the Renault eco² signature.
- Dacia is making a direct contribution to the Renault group commitment to figure among the top-three European carmarkers with regard to CO₂ emissions.

Dacia eco² vehicles meet the same exacting standards as Renault eco² vehicules:



• ON THE ROAD: CO₂ indice emissions less than or equal to 140g/km, or biofuel compatible.



• PRODUCTION: all Dacia vehicles are produced in one of two ISO 14 001-certified plants: the Somaca factory in Casablanca, Morocco, which has been certified since February 2008, and the Pitesti factory, Romania, which has been certified since May 2005.



• RECYCLING: Dacia vehicles are 95 per cent end-of-life recoverable by weight and at least five per cent of the plastic they contain is sourced from recycling.

The Dacia eco² range features the following models:

	dCi 70	dCi 85	1.2 16V	1.4 GPL	1.6 E85
	120g CO ₂ /km	120g CO ₂ /km	139g CO ₂ /km	< 140 g CO ₂ /km*¹	130 g CO ₂ /km*²
11 de 1	120g CO ₂ /km	120g CO ₂ /km	139g CO ₂ /km	< 140 g CO ₂ /km* ¹	-
Salah d	140g CO ₂ /km	137g CO ₂ /km	-	-	-
CH 0 0	140g CO ₂ /km	137g CO ₂ /km	-	-	-
	140g CO ₂ /km	137g CO ₂ /km	-	-	-

^{*1} Homologation in progress.

^{*2 &}quot;Well-to-wheel" CO₂ emissions: 130g/km running on sugar beet/wheat-based E85 fuel as produced in France, and 60g/km with sugarcane-based E85 fuel as available in Sweden.