



**CONCOURS INTERNE POUR LE RECRUTEMENT  
D'ÉLÈVES INGÉNIEURS DES TRAVAUX DE LA MÉTÉOROLOGIE**

**SESSION 2017**

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**ÉPREUVE ÉCRITE OBLIGATOIRE D'ANGLAIS**

Durée : 2 heures

Coefficient : 1

La rigueur, le soin et la clarté apportés à la rédaction des réponses seront pris en compte dans la notation. L'utilisation de toute documentation (dictionnaire, support papier, traducteur, téléphone portable, assistant électronique, etc) est strictement interdite.

**L'épreuve de langue vivante comporte deux parties :**

**1. VERSION (10 points)**

**2. ESSAI (10 points)**

*Cette épreuve comporte 3 pages (page de garde incluse).*

**VERSION : traduisez le texte en entier.**

## France opens world's first solar road in Normandy

Latest update: 2016-12-22 Text by FRANCE 24

The world's first solar road opened Thursday in Normandy, part of a government-sponsored experiment to see if turning France's highways into power stations could be a sustainable way to generate energy.

The prototype road was inaugurated by Environment Minister Ségolène Royal in the village of Tourouvre, Normandy, under rainy midwinter grey skies. The one-kilometre (half-mile) "Wattway" is covered with 2,800 square metres (30,000 square feet) of resin-coated solar panels and was hooked up to the local power grid. It should generate enough electricity to power local street lighting.

"This new use of solar energy takes advantage of large swathes of road infrastructure already in use... to produce electricity without taking up new real estate," Royal said in a statement. It has taken six years to find the right material that can carry the weight of lorries that regularly drive along this route, and the experiment has received a €5 million state subsidy – a high cost for a solar plant with a relatively small power output.

The energy produced costs 13 times as much as rooftop panels, with each kilowatt-peak – the unit of measure for solar energy – generated by Wattway currently costing €17, compared with €1.30 for a major rooftop installation. But Royal pointed out that, "as we develop more roads like this, the costs will be driven sharply down". She announced a four-year plan "for the national deployment of solar highways" with future projects already slated for western Brittany and southern Marseille.

### **A road to energy independence?**

An average of 2,000 cars use the road in Tourouvre each day, testing the resistance of the panels for the project carried out by French civil engineering firm Colas, a subsidiary of construction giant Bouygues. Colas says that, in theory, France could become energy independent by paving only a quarter of its million kilometres of roads with solar panels.

Roadways are occupied by cars only around 20 percent of the time, leaving vast expanses of surface exposed to soak up the sun's rays. Similar projects are under exploration in Germany, the Netherlands and the United States.

## **ESSAI :**

Senator Bernie Sanders:

“Right now, we have an energy policy that is rigged to boost the profits of big oil companies like Exxon, BP, and Shell at the expense of average Americans. CEO’s are raking in record profits while climate change ravages our planet and our people — all because the wealthiest industry in the history of our planet has bribed politicians into complacency in the face of climate change. Enough is enough. It’s time for a political revolution that takes on the fossil fuel billionaires, accelerates our transition to clean energy, and finally puts people before the profits of polluters.”

What is your opinion?