

**BREVET DE TECHNICIEN SUPERIEUR  
- GROUPE 17 -**

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Après vente automobile  
Conception et réalisation de carrosseries  
Constructions navales  
Etude et réalisation d'outillages de mise en forme des matériaux  
Industries céramiques  
Industries des matériaux souples  
Industries papetières  
Maintenance et après-vente des engins de travaux publics et de manutention  
Mécanique et automatismes industriels  
Mise en forme des alliages moulés  
Mise en forme des matériaux par forgeage  
Moteurs à combustion interne  
Productique bois et ameublement  
Réalisation d'ouvrages chaudronnés  
Traitements des matériaux

**LANGUE VIVANTE ETRANGERE  
EPREUVE D'ANGLAIS**

**DUREE : 2 HEURES  
COEFFICIENT : 2**

L'usage du dictionnaire bilingue est autorisé  
Calculatrices et traducteurs électroniques sont interdits

Dès que le sujet vous est remis, assurez-vous qu'il soit complet.  
Le sujet comporte 3 pages, numérotées de 1 à 3.

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<b>EPREUVE DE LANGUE VIVANTE : ANGLAIS</b>	<b>Code :LVE8 AGL</b>
<b>Durée : 2 Heures Coefficient 2</b>	<b>Page 1/3</b>

## Iceland phasing out fossil fuels for clean energy

REYKJAVIK, Iceland (CNN)

For more than 50 years Iceland has been decreasing its dependence on fossil fuels by tapping the natural power all around this rainy, windswept rock of fire.

Waterfalls, volcanoes, geysers and hot springs provide Icelanders with abundant electricity and hot water.

Virtually all of the country's electricity and heating comes from domestic renewable energy sources – hydroelectric power and geothermal springs. It's pollution-free and cheap.

Yet these energy pioneers are still dependent on imported oil to operate their vehicles and thriving fishing industry.

Iceland's geographic isolation in the North Atlantic makes it expensive to ship in gasoline – it costs almost \$8 a gallon (around \$2 a liter).

Retired University of Iceland Professor Bragi Arnason has come up with a solution: Use hydrogen to power transportation. Hydrogen is produced with water and electricity, and Iceland has lots of both.

"Iceland is the ideal country to create the world's first hydrogen economy," Arnason explains. His big idea has earned him the nickname "Professor Hydrogen."

Arnason has caught the attention of General Motors, Toyota and DaimlerChrysler, who are using the island-nation as a test market for their hydrogen fuel cell<sup>1</sup> prototypes.

One car getting put through its paces<sup>2</sup> is the Mercedes Benz A-class F-Cell – an electric car powered by a DaimlerChrysler fuel cell. Fuel cells generate electricity by converting hydrogen and oxygen into water. And fuel cell technology is clean – the only by-product is water.

"It's just like a normal car," says Asdis Kritinsdottir, project manager for Reykjavik Energy. Except the only pollution coming out of the exhaust pipe is water vapor. It can go about 100 miles on a full tank. When it runs out of fuel the electric battery kicks in, giving the driver another 18 miles. Filling the tank is similar to today's cars – attach a hose to the car's fueling port, hit "start" on the pump and stand back. The process takes about five to six minutes.

In 2003, Reykjavik opened a hydrogen fueling station to test three hydrogen fuel cell buses. The public buses could run all day before needing refueling.



CNN International, September 20, 2007

(347 mots)

1. a fuel cell: *une pile à combustible*
2. put through its paces: *testé*

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## TRAVAIL A EFFECTUER PAR LE CANDIDAT

### 1. COMPRÉHENSION (10 points)

Rédigez **en français** un compte-rendu (200 mots, +/- 10%) = vous veillerez à dégager les éléments essentiels, dans un français de qualité et vous indiquerez le nombre de mots utilisés. 190 mots, (+/- 10%)

### 2. EXPRESSION (10 points)

Traitez **en anglais** les **deux** sujets suivants :

1) What are the advantages of hydrogen fuel cell prototypes in Iceland? Use your own words.

60 words, (+/- 10%) – 4 points

2) Would you accept to buy the Mercedes A-Class F-Cell? Are you ready to make concessions for a greener future when buying a car?

120 words, (+/- 10%) – 6 points

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