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Poly's solar race car rises from ashes

Nicknamed Phoenix. it was rebuilt after fire destroyed the first

Christopher Tan Senior Transport Correspondent

As the only polytechnic in a solar car race set in a desert and dominated by big-name universities such as the Massachusetts Institute of Technology, Stanford and Cambridge, Singapore Polytechnic (SP) was prepared for hot competition.

But probably not as hot as the inferno that engulfed its \$250,000 self-built solar-powered two-seater weeks before the car was due to be shipped to Darwin in Australia for the flag-off.

Through sheer grit, the team of 52 engineering students and lecturers managed to rebuild the car - in just

Project sponsor Singapore Power decided to pay to airfreight the car, buying the team extra time.

The black 220kg carbon-fibre car lined with solar cells - nicknamed Phoenix by the students - is now undergoing final tests.

The polytechnic will be among 46 teams from 25 countries taking part in the biennial World Solar Challenge, a 3,000km endurance race from Darwin to Adelaide, from Oct 18 to 25.

Senior lecturer and team manager Steven Chew said: "This journey started in December 2013. The stu-



lecturer Steven Chew with students Daniel Quick, 20; Lee Sunho, 21; and Cheong Yong Quan, 21, who are driving the Singapore Polytechnic team's black SunSPEC4, a 220kg carbon-fibre car lined with solar cells. The polytechnic is taking part in the World Solar Challenge, a 3,000km endurance race from Darwin to Adelaide, from Oct 18 to 25. PHOTO: LIM YAOHUI FOR THE STRAITS TIMES

(Clockwise from

bottom left)

and senior

Team manager

The polytechnic's SunSPEC4 is powered by two rear in-wheel motors and can attain a top speed of 90kmh to 100kmh; its 15kW lithium-ion battery pack gives it a range of 500km when fully charged.

company's \$1 million sponsorship

will allow the team to take part in two more solar challenges – in 2017

Mr Wong added that the sponsor-

ship was an appropriate initiative for Singapore Power as it has to do

with "our next sources of energy".

three solar car races since 1999.

The polytechnic has entered

In the 2013 World Solar Challenge,

its single-seater finished 16th. The

year before, its solar car was first in

the Shell Eco-Marathon, which was

open only to Asian challengers. In

1999, its had to withdraw because

Mr Chew said he is confident of

faring better this year as SP is enter-

ing in the Cruiser class, a fairly new

This class is supposed to reflect

the practicality of everyday cars.

Competitors in this class are al-

lowed overnight charging of batter-

ies from electrical outlets at Alice

New rules this year are also expected to result in a more level play-

Springs, the mid-point.

category that features two-seaters.

of torrential rain.

and 2019.

Its solar panels are extra thin, allowing them to be moulded over curved surfaces. They are 10 per cent more efficient in converting solar energy into electricity than commercial-grade panels.

dents worked hard to create the car.

"Just when we were ready to unveil it... the fire took everything away. We were devastated to see 20 months of hard work destroyed in front of us."

The incident happened on Aug 25, when the car was to be presented to the SP board and Singapore Power. Student leader Bryan Chu, 20, recalled: "I was right at the door of the lab where it happened. I felt so helpless because there was nothing I could do."

Investigations into the cause of the fire are still ongoing.

Acting as a liaison person between students and lecturers, Mr Chu - who is pursuing a diploma in clean energy - said the team was determined to build another car. Working over weekends and sometimes overnight, it managed to do just that.

Singapore Power group chief executive Wong Kim Yin recalled the day of the fire: "I was just driving into campus when I saw an SCDF fire truck there. It was an ominous sign." Mr Wong said Singapore Power did not hesitate to give extra finan-

cial support. "We wanted to nurture this spirit of 'never say die' in the younger generation, this spirit of resilience," he said. "I think it's important."

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