



# P.I.T. Now!

Petroleum Independent  
Transportation

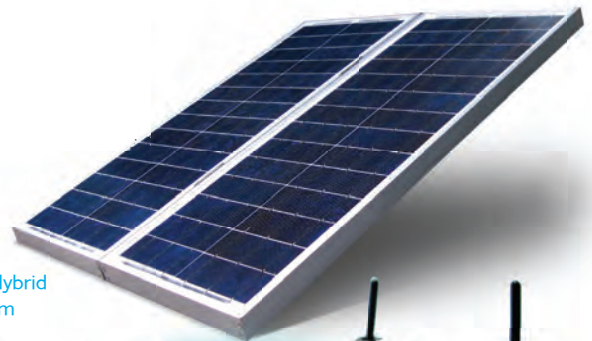
Middle and high school students form Ten80 Student Racing Challenge: NASCAR STEM Initiative teams around a 1:10 scale electric radio controlled (RC) car and compete in 8 categories including P.I.T. Now!.

In this challenge, teams optimize the car design and setup to win a 2.4 hour endurance race (1:10 scale version of a 24 hour race).

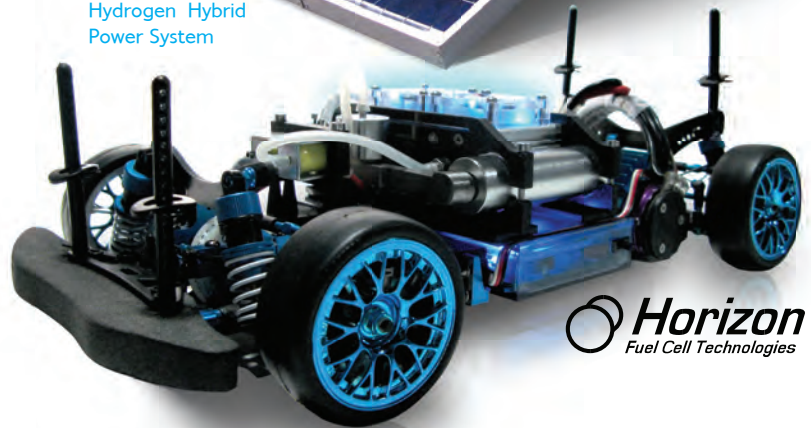
Starting positions are determined by a transparent index that rewards teams for:

- Optimizing energy sources
- Maximizing battery range
- Minimizing
  - Carbon footprint
  - Water & Energy use
  - Waste generated
  - Charge time
  - Cost

## P.I.T. Now!™ is part of the Ten80 Student Racing Challenge™ - NASCAR STEM Initiative, the practice league for future engineers, scientists, business, marketing and creative professionals.



Hydrogen Hybrid  
Power System



## Get Involved.

Contact us to see how you can help today's youth, tomorrow's leaders, innovate a future of Petroleum-Independent Transportation.

# P.I.T. Now! Alternative Energy Challenge

## Petroleum Independent Transportation Now!



/// NASCAR STEM Initiative

The Student Racing Challenge car is an electric car. Like engineers who are designing sustainable transportation systems, students can draw energy from common wall plugs ('on the grid'), solar panels, wind turbines, hydrogen fuel cells and other sources like bio.

Students can enter their P.I.T. Now! projects into the Student Racing Challenge and are required to do so to qualify for the Endurance Race at Regional and National Finals

Contact us to get the P.I.T. Now! competition guidelines.

### Hydrogen Fuel Cell & Solar Energy Kits.

Horizon Fuel Cell is a global innovation leader in hydrogen fuel cell technology and Ten80 partner. Horizon's H-Cell 2.0 is a fuel cell for 1:10 scale RC cars which generates electricity from hydrogen, which is stored in solid form inside Hydrosticks, and oxygen from the air.

How do you get hydrogen into the Hydrosticks? Use gas tanks or the Hydrofill which is the world's first table-top hydrogen refueling system. Use the solar panel system to operate the Hydrofill with 'free energy'.

Learn more about the hybrid hydrogen fuel cell car at [www.facebook.com/Ten80Education](http://www.facebook.com/Ten80Education). Watch the video entitled, *Ten80-Horizon Hybrid Hydrogen Fuel Cell Car [HQ]*.

#### H-Cell 2.0

Can be installed on any 1:10 scale electric RC car

- H-Cell hydrogen fuel cell with cooling fan and electrical harness
- Control box
- Four (4) Hydrosticks, pre-charged with hydrogen
- Fittings to install on Ten80's SRC-001 car
- Installation guide and alternative energy lessons

#### H-Cell 2.0 and SRC-001 Car\*

Does not include team registration for Student Racing Challenge

- H-Cell 2.0 kit as described above
- Ten80's SRC-001 car and controller
- Two (2) car batteries
- Rapid smart charger for car batteries
- Tools: Allen key set, pliers, tire wrench, 5 mm wrench, multimeter

#### Assembled Hybrid Hydrogen Fuel Cell Car

- H-Cell 2.0 and SRC-001 Car kit described above - fully assembled

#### Hydrofill

- Hydrofill table-top system to refuel Hydrosticks
- Two (2) Hydrosticks, pre-charged with hydrogen

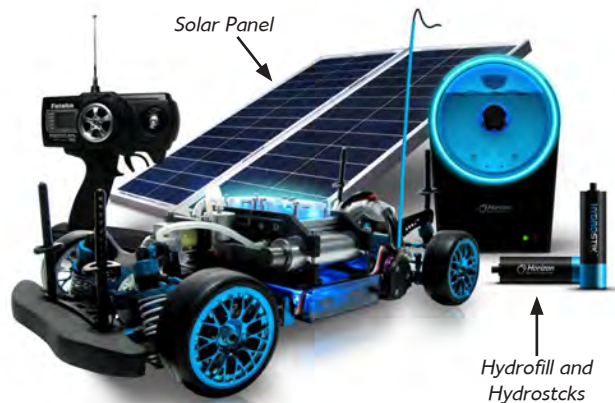
#### Hydrofill with Solar Panel

- Hydrofill Kit as described above
- Solar Panel
- Control box and battery system to operate the Hydrofill

#### Solar Panel

Not for use with the Hydrofill. Use to charge car batteries.

- Solar Panel
- Control box to recharge two car batteries simultaneously



Below, Left: H-Cell 2.0 Hydrogen fuel cell and cooling fan  
Below, Right: HCell 2.0 Control Box



Below: Installation bracket and fittings



P.I.T. Now Kits	Product #	Price
H-Cell 2.0*	PIT-001	\$775
H-Cell 2.0 and SRC-001 Car*	PIT-002	\$1,079
Assembled H-Fuel Cell Car*	PIT-010	\$1,495
Hydrofill	PIT-003	\$645
Hydrofill with Solar Panel	PIT-004	\$1,540
Solar Panel (not for Hydrofill)	PIT-100	\$770

\* Teams already registered can enter into the P.I.T. Now competition using this kit. For new teams that want to enter into the P.I.T. Now competition, purchase the H-Cell 2.0 Kit and a Booster Kit.