Does Hydrogen could be a next-generation solution for powering vehicles for last miles trip around stations?

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Number and session name
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Hydrogen in transport/Advantages.

1. It is readily available.

2. It doesn’t produce harmful emissions.

3. It is environmentally friendly.

4. It is fuel efficient.

5. Range and refuelling time.
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Hydrogen in transport/Advantages

1. **It is readily available.**
   hydrogen is a basic earth element and it’s very abundant.

2. **It doesn’t produce harmful emissions.**
   When hydrogen is burned, it doesn’t emit harmful substances.

3. **It is environmentally friendly.**
   Hydrogen is a non-toxic substance which is rare for a fuel source.

4. **It is fuel efficient.**
   Compared to diesel or gas, hydrogen produces more energy per pound of fuel.

5. **Range and refuelling time**
   are comparable to hydrocarbon fuelled vehicles.
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Hydrogen in transport/Disadvantages

1. It is expensive.

<table>
<thead>
<tr>
<th></th>
<th>Kg of CO2 for 100 KM travel</th>
<th>USD cost for 100 KM travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Future Grid (50% 2014 avg)</td>
<td>Average Grid</td>
<td>Coal Only Grid</td>
</tr>
<tr>
<td>Diesel</td>
<td>121</td>
<td>121</td>
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<tr>
<td>Electric</td>
<td>75</td>
<td>150</td>
</tr>
<tr>
<td>Hydrogen - natural gas</td>
<td>139</td>
<td>139</td>
</tr>
<tr>
<td>Hydrogen - electrolysis</td>
<td>300</td>
<td>600</td>
</tr>
</tbody>
</table>

2. It is difficult to store.

3. It is not easy to replace exiting infrastructure.

4. It is highly flammable.
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**Hydrogen in transport/Disadvantages**

1. **It is expensive.**
   While widely available, hydrogen is expensive.

2. **It is difficult to store.**
   Hydrogen is very hard to move around.

3. **It is not easy to replace exiting infrastructure.**
   Gasoline is still being widely used to this day.

4. **It is highly flammable.**
   Since it is a very powerful source of fuel, hydrogen can be very flammable.
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So ..... is there a futur for H2 to develop mobility around stations?

Is there a way to develop new business for stations operators?

How ...

By doing a big technical step for storing H2 and making its uses friendly
And...

By developing a new ecosystem around the station

Does Hydrogen could be a next-generation solution for powering vehicles for last miles trip around stations?
The first step of this project is to provide a mobility solution with hydrogen scooters.

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THANK YOU
GRACIAS