"The lack of a cost-effective home fueling appliance is seen as a major impediment to the development of the NGV passenger automobile market."

FC Gas Intelligence “Natural Gas Vehicle Market Whitepaper”
ONE HOME –
ONE FUELING STATION

NATURAL GAS VEHICLE

FUEL DISPENSER
(LOCATED AT YOUR CONVENIENCE)

GASDROID –
CNG HOME FUELING APPLIANCE

COMPRESSED
NATURAL GAS (CNG)

RESIDENTIAL
NATURAL GAS
SUPPLY LINE

NATURAL GAS SUPPLY LINE
VALUE FOR GAS COMPANY

- Extends gas grid capabilities to fueling vehicles
- Allows to capture part of 30 B EUR (36 B USD) global commuter driver fuel market
- Enables to retail CNG at competitive price right at the door steps
- Up to 5 x gas sales to 1 detached house
- Increases Regulated Asset Base for Distribution System Operators
- Fulfills environmental and innovation commitments
- Economic driver for grid development
- Load leveling (winter & summer)

GASOLINE vs CNG + HYGEN

- Cuts fuel costs by 40–60%
- Convenience (3 min at home fueling)
- Emission reduction
- Additional benefits (free parking, bus & taxi lane, tax reduction)

HYGEN MAJOR BREAKTHROUGHS

1. LOW COST
2. LONG SERVICE LIFE
3. FAST AT HOME FUELING
4. SAFE AND EASY OUTDOOR INSTALLATION

EV vs NGV + HYGEN

<table>
<thead>
<tr>
<th></th>
<th>EV</th>
<th>NGV + HYGEN</th>
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<tbody>
<tr>
<td>Everyday fueling solution</td>
<td>Home &amp; Office</td>
<td>Home &amp; Office</td>
</tr>
<tr>
<td>Fueling time at home</td>
<td>4–8 h</td>
<td>3 min</td>
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<tr>
<td>Driving extension (refueling options)</td>
<td>Sophisticated and expensive infrastructure</td>
<td>Existing gasoline stations (all NVGs are bi-fuel vehicles)</td>
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<tr>
<td>Average incremental costs</td>
<td>9 000 EUR (11 000 USD)</td>
<td>2 200 EUR (2 700 USD)</td>
</tr>
<tr>
<td>Mass produced car models</td>
<td>50</td>
<td>+100</td>
</tr>
<tr>
<td>Conversion of gasoline vehicle</td>
<td>NO</td>
<td>YES, widely available</td>
</tr>
<tr>
<td>Energy distribution grid</td>
<td>Most households</td>
<td>Less developed</td>
</tr>
<tr>
<td>Proven market traction</td>
<td>Emerging (3 M vehicles)</td>
<td>YES (26 M vehicles)</td>
</tr>
</tbody>
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HYPHEN
ONE APPLIANCE – TWO VEHICLES

NEW SAFETY DESIGN: GAS OUTSIDE - ELECTRICAL COMPONENTS INSIDE. CE LISTED. SOON TO BE CSA LISTED

NEW NATURAL GAS VEHICLE (GASOLINE AS A BACK-UP FUEL)

RETROFITTED GASOLINE BI-FUEL VEHICLE
TRANSFORMING NATURAL GAS GRID INTO VEHICLE FUELING NETWORK

The existing natural gas distribution grid delivers gas to more than 200 M homes worldwide. Our mission is to transform the gas grid into the largest alternative vehicle fueling infrastructure on Earth.

HYGEN ENABLES GAS COMPANIES TO:
- Capture a part of 30 B EUR (36 B USD) commuter passenger vehicle fuel market.
- Help clean up cities from smog and other local pollutants.
- Substantially reduce CO₂ emission in transportation.

HYGEN PRODUCTS

TODAY
Home Fueling Appliance
- Compression flow: 1,1 Sm³/h (0,65 SCFM), 1,3 GLE/h (0,3 GGE/h)*
- Storage capacity: 19 Sm³ (675 SCF), 22 GLE (5 GGE)
- Fueling time: 3 min
- Electricity consumption: 0,4 kW/GLE (1,8 kW/GGE)
- Power supply: 220/240 V
- Service life: 25 000 h

TOMORROW
Small Business Fueling Appliance
- Compression flow: 5 Sm³/h (3 SCFM), 6 GLE/h (1,4 GGE/h)
- Storage capacity: 85 Sm³ (3000 SCF), 95 GLE (24 GGE)
- Fueling time: 15 min
- Electricity consumption: 0,4 kW/GLE (1,6 kW/GGE)
- Power supply: 220/240 V
- Service life: 25 000 h

* SCFM – Standard cubic feet per minute / GLE – Gasoline Liter Equivalent / GGE – Gasoline Gallon Equivalent
UNIQUE CUSTOMER EXPERIENCE — AT HOME FUELING

MORE THAN 40% REDUCTION IN FUEL COSTS

CLEANER. CHEAPER. MORE CONVENIENT

LOW ELECTRICITY CONSUMPTION

IMPROVES LOCAL AIR QUALITY. REDUCES GREENHOUSE GASES

UNIQUE CUSTOMER EXPERIENCE — AT HOME FUELING

FAST 5 MIN FUELING