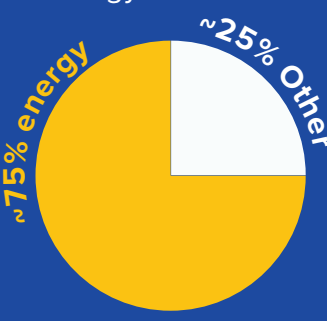




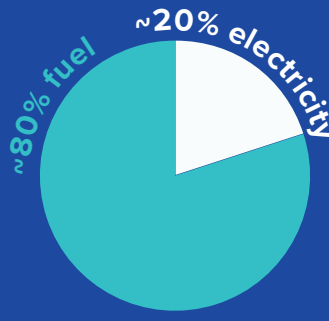
PAVING THE WAY FOR **H₂ALL**

Supplying 100% emission free energy to all 8 Billion energy consumers worldwide is undoubtedly one of the greatest challenges of our time.

Greenhouse Gas Emissions Caused by Energy Production



Global Final Users Energy Consumption



The Global Hidden Costs of Electricity and Mobility

25 Trillion \$ per year

In an effort to replace fossil fuel with renewable sources, a process of electrification has begun. This approach is relying on massive infrastructure changes, multiplying the current electric power grid and building large-scale storage facilities that are mainly suited for short term supply only.

Potentially, green hydrogen can replace any of the fossil fuels being used today and can also be used to produce electricity. It's made from water and renewable electricity, and its only by-product is water, making it the best solution for the next generation of energy systems. But due to the lack of infrastructure and ecosystem, leading to high prices and low demand, green hydrogen is not yet a mainstream energy alternative.

Emission-Free Energy Network of Both Fuel & Electricity

HydRoad is an emission-free energy system of solar roads connected to a hydrogen pipeline storage grid, supplying energy to consumers along the roads.

Integrating existing technologies (such as PV panels, electrolyzers, H₂ pipeline and fuel-cells) into the existing roadways network, creates a minimalist holistic energy solution, in which the sum is greater than its parts.

This distributed method is the key to making green hydrogen economically feasible and profitable.



Source

Covering ~50% of the global road network area is enough to supply the entire global energy consumption. Generating electricity from solar panels for local grids and producing green hydrogen for fuel consumption along the way.



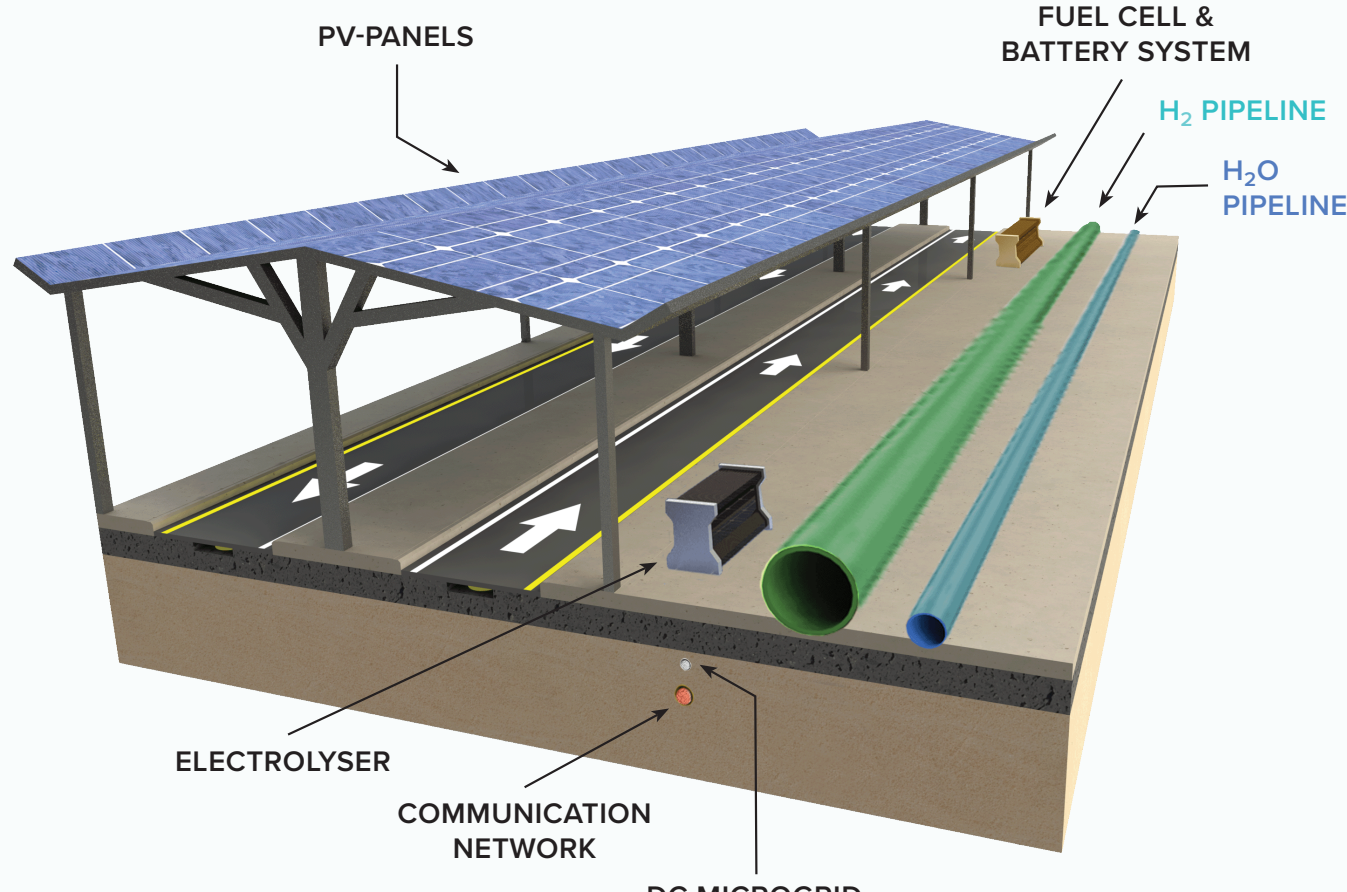
Storage

Most of the energy that is accumulated during the sunlight hours is converted to hydrogen and stored in a pipeline network, thereby ensuring a continuous supply of electricity to the local power grid, according to demand.



Supply

Accessible to all, the road becomes the carrier that powers electricity to the grid and functions as an interconnected Hydrogen distribution platform, available for other energy producers as well.



HydRoad creates an optimized distribution of all components that operate locally within a DC microgrid while maintaining the stability of a large pipeline system. It is designed to be modular and tailored for the local terrain route and consumption profile in the area.

WHEREVER THERE'S ENERGY, THERE'S A WAY

- ✓ **Green Hydrogen Supply** for transportation, heating, industries, etc.
- ✓ **Steady Renewable Electricity** for local consumption.
- ✓ **A Distribution Platform** for local energy producers.

ANYWHERE, ANYTIME

This project has the potential to transform energy production into an emission-free field by using the existing network of roads. Supporting the transition to 100% renewable energy, HydRoad offers a game changing energy alternative that **saves at least 60% on infrastructure costs.**

Holistic 24/7/365 Fuel & Electricity Stability Scalability Efficiency Energy Cost-effective Interconnectivity Green Independence Clean Directly to Consumers Connectivity Availability Continuous Accessibility Multipurpose

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Former senior researcher at the Agriculture Research Organization - Volcani Institute and "Scientist of the Year" (2011).
With over 40 years of engineering experience in the agriculture field, Avraham's expertise are large-scale thermal systems that particularly excel in their energy efficiency and cost benefits.

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