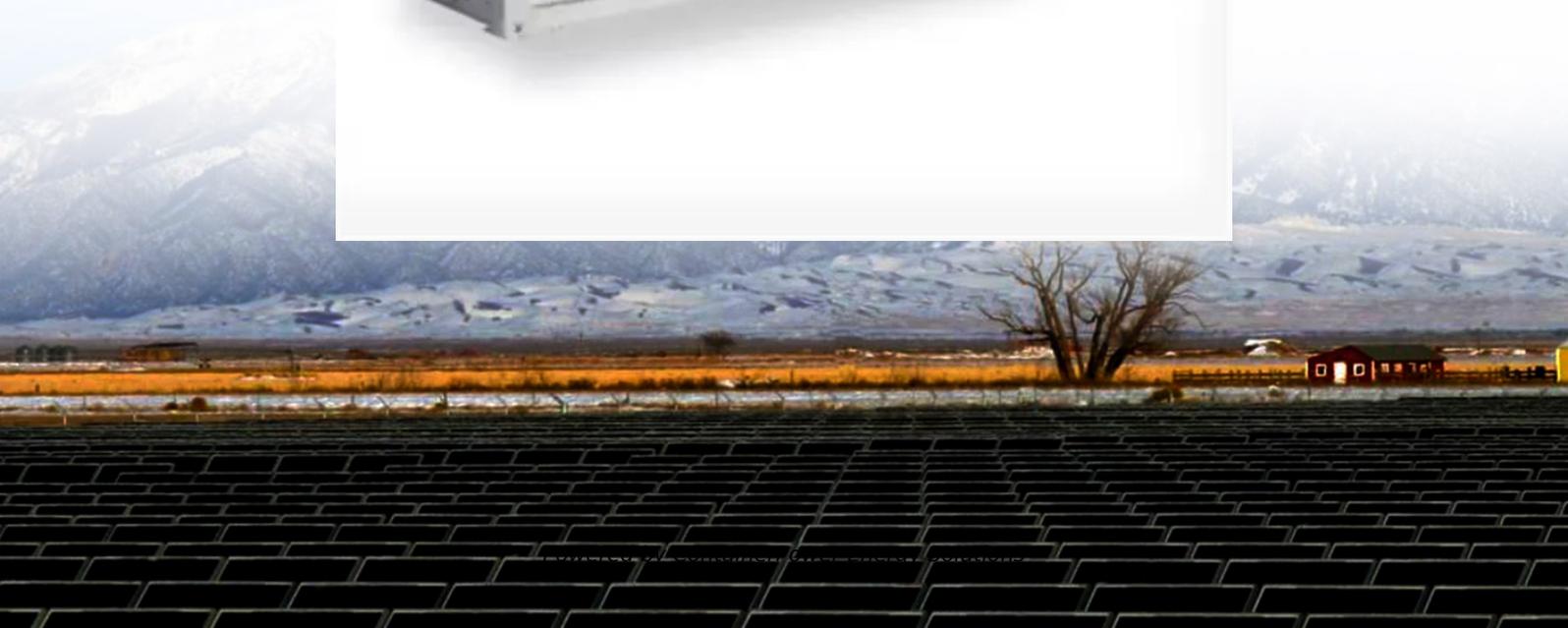


## ContainerPower Energy Solutions

# Cost price of small container stations for hydrogen energy in the Democratic Republic of the Congo



## Overview

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Stations that use hydrogen delivered as a gas have an average storage of 180 kg/day and an estimated the total cost of \$2 million, which includes equipment, design, construction, and commissioning.

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However, the cost of building a hydrogen refuelling station is a complex equation that involves various factors, with the balance of plant being a central consideration. In addition to costs, there are several barriers and constraints that stakeholders must navigate when planning to construct a.

This report contributes to this understanding by comparing hydrogen station cost estimates conveyed by expert stakeholders through the Hydrogen Station Cost Calculation (HSCC) to a select number of other cost estimates. These other cost estimates include projections based upon cost models and costs.

In the Energy Commission's Joint Agency Staff Report on Assembly Bill 8, Chapter 4 provides an average cost of stations funded by the Energy Commission in 2012 and 2014. Stations that use hydrogen delivered as a gas have an average storage of 180 kg/day and an estimated the total cost of \$2.

The following is a specific analysis of its operating costs using a 500kg 35Mpa fixed hydrogen refueling station as a model: 1. Land occupation cost  
According to the average land acquisition cost in China, the land cost of a hydrogen refueling station is about 3-5 million CNY, the land depreciation.

These 'Reference Stations' help reduce the cost and speed the deployment of hydrogen stations by providing a common baseline with which to start a design, enable quick assessment of potential sites for a hydrogen station, identify contributors to poor economics, and suggest areas of research. This.

In this short technical report, we explore the range of levelized costs of dispensed hydrogen (H<sub>2</sub>) from hydrogen refueling (or fueling) stations (HRS)

for H2 heavy-duty fuel cell electric vehicles (FCEVs) that are feasible in the 2030 timeframe. We explore different scenarios by varying hydrogen. Are dispensed hydrogen refueling stations feasible in 2030?

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How much does hydrogen cost in 2030?

Given the methodology and assumptions described in Sections 2 through 5, the potential system levelized cost of hydrogen for 2–18 MTPD sized stations in 2030 could range widely from ~\$3.80/kg-H2 to ~\$12.60/kg-H2, depending on the size of stations and method of hydrogen supply.

How much does hydrogen storage cost?

Stations that use hydrogen delivered as a liquid have an average storage of 350 kg/day and estimated total constructed and commissioned cost of \$2.8 million. Stations that make hydrogen onsite from electrolysis of water have an average storage of 120 kg/day and estimated total constructed and commissioned cost of \$3.2 million.

How much does a modular hydrogen station cost?

If the capital cost of the modular station unit is only \$1M, which is still in the range of cost estimates by manufacturers, a modular station with delivered hydrogen would cost \$1.36M to build, and for a 300 kg/day capacity, hydrogen would cost \$12.65/kg.

How much does hydrogen cost?

The difference between these two scenarios results in delivered hydrogen costs of \$9.95, \$6.90, and \$5.89 per kg. Note that these costs includes the leasing two tube-trailers for storage on-site and the cost of delivered, centrally produced hydrogen (without the cost of the tube-trailer lease) is \$3.87/kg, for all three capacity stations.

How much does it cost to build a hydrogen station?

Project sponsors are also indicated. The analysis concluded that for an infrastructure of 42 hydrogen stations in the LA Basin that supports 25,000

FCVs [fuel cell vehicles] by 2017, a \$200 million total investment would be required (\$170 million to build the stations and \$30 million to operate them).

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