



**Technical Report**  
NREL/TP-5600-56809  
October 2012

# **Next Generation Hydrogen Stations: All Composite Data Products through Fall 2012**

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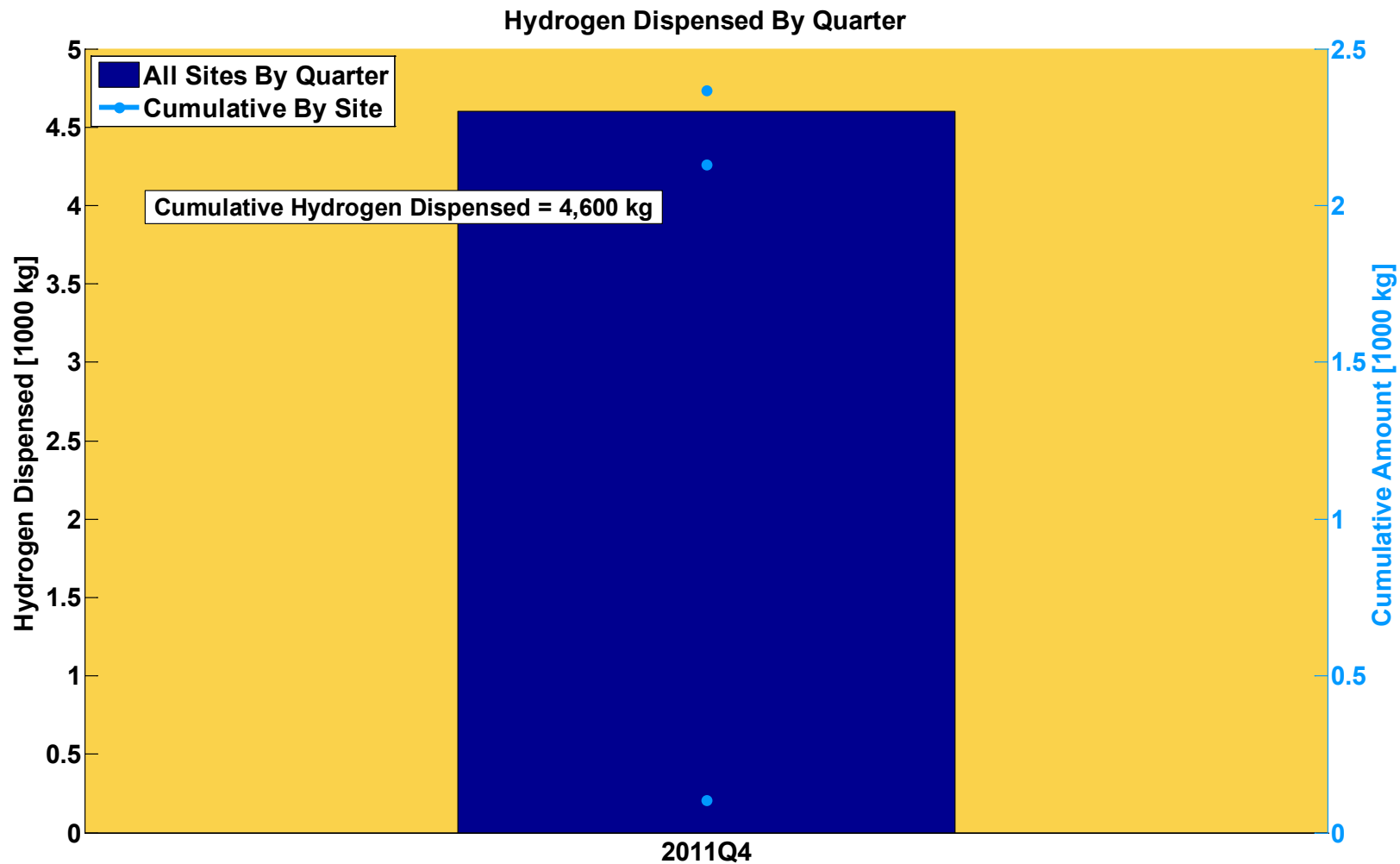
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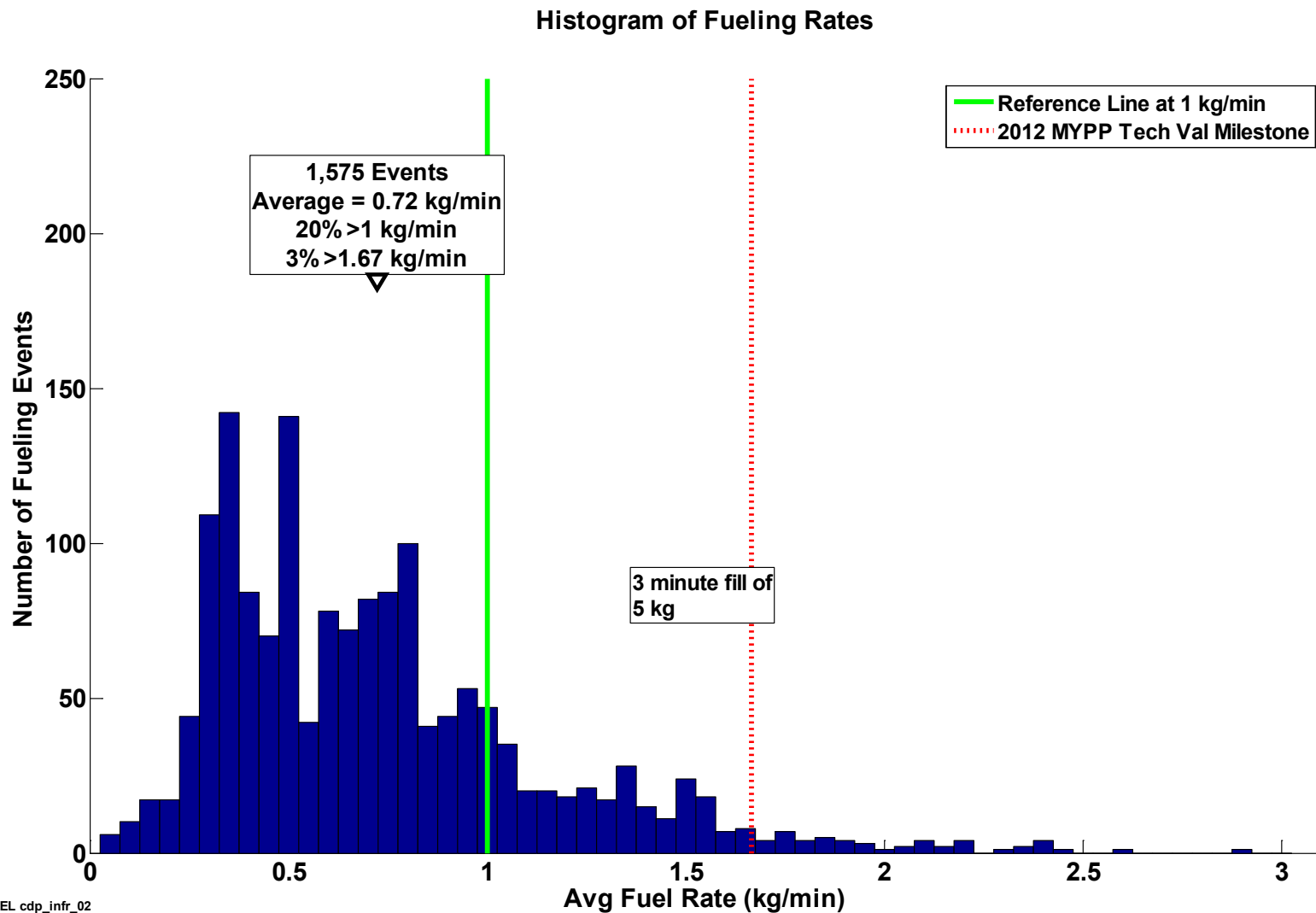


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## Hydrogen Dispensed by Quarter

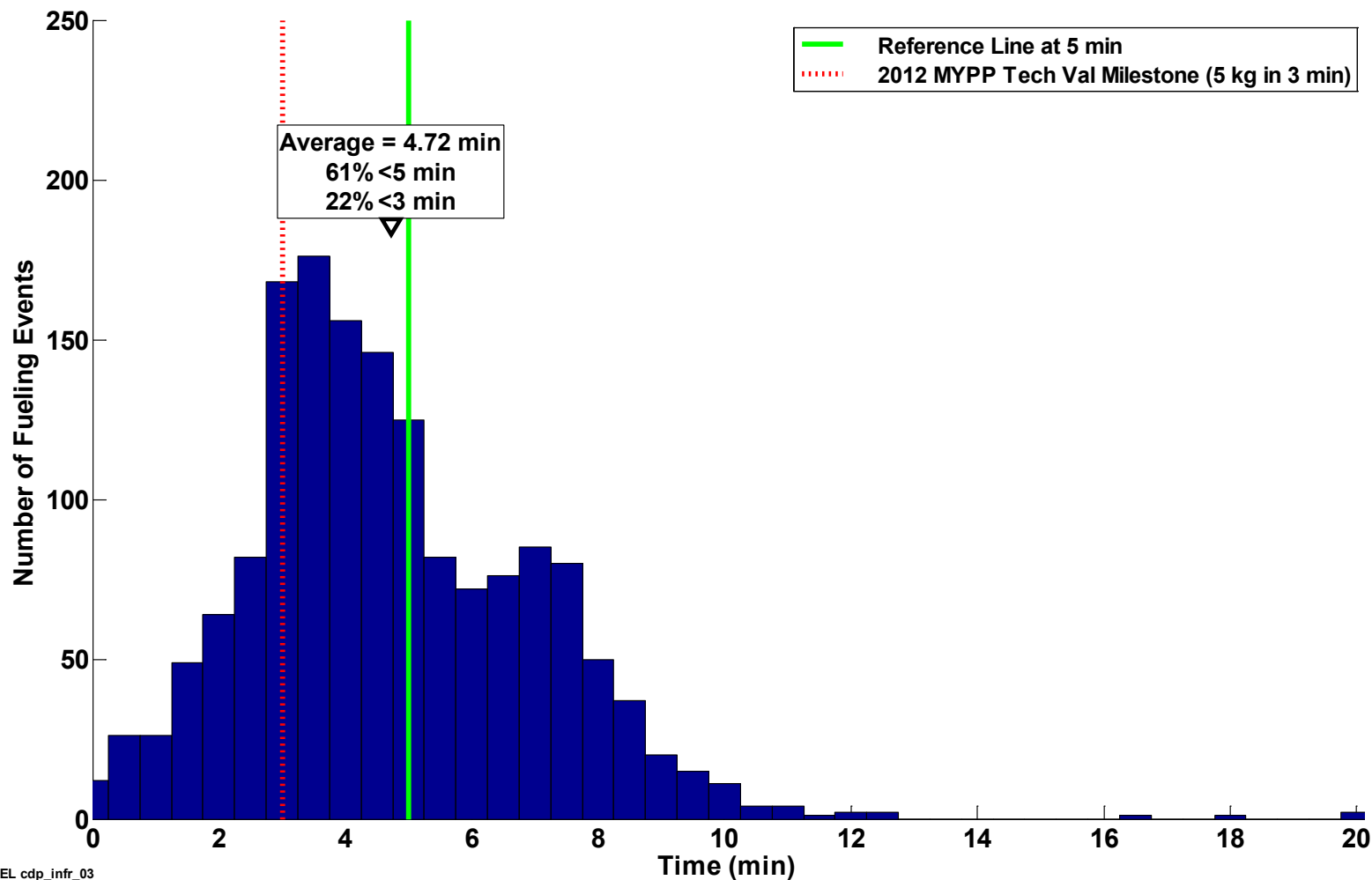


## Histogram of Fueling Rates

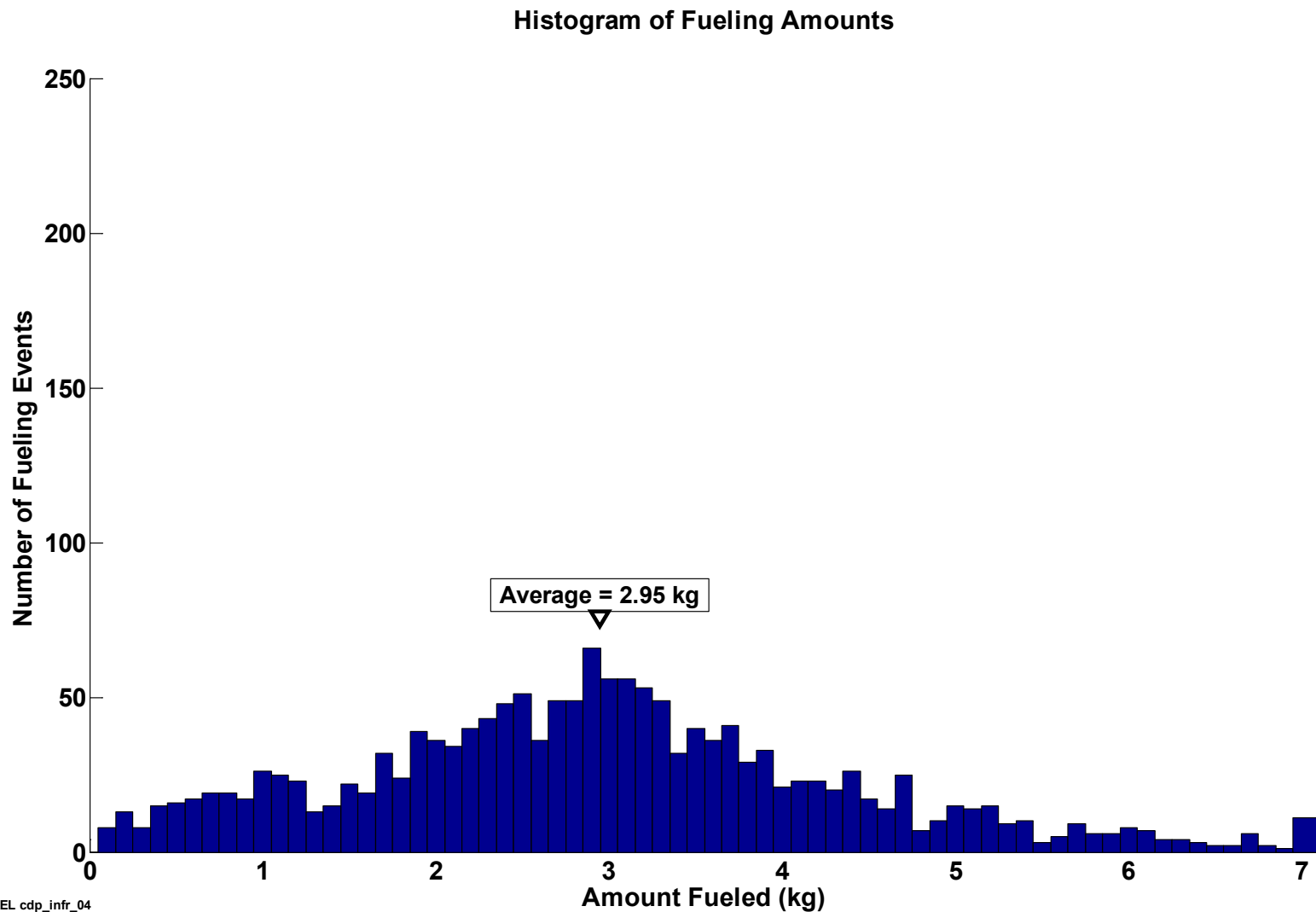


## Histogram of Fueling Times

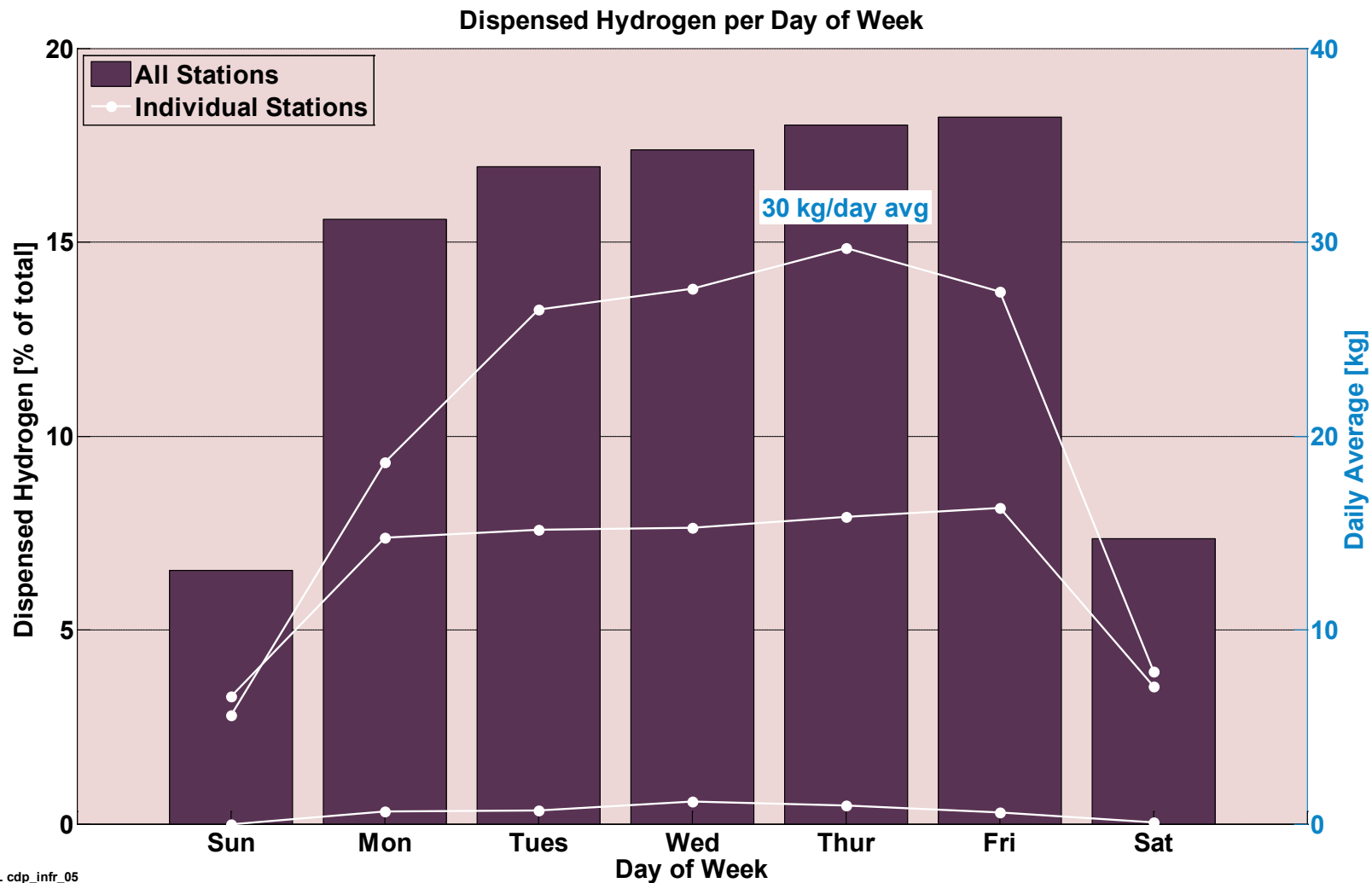
Histogram of Fueling Times



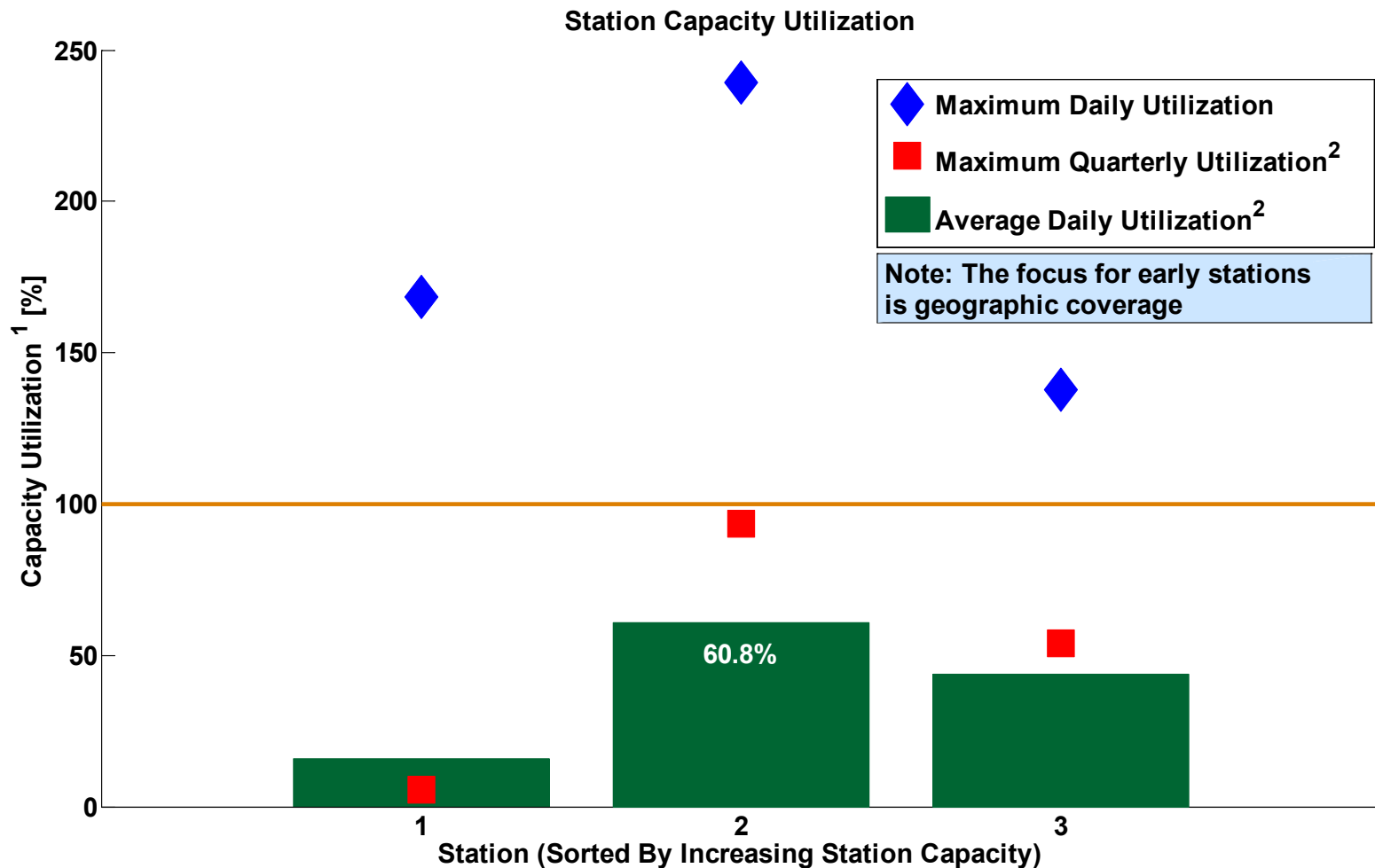
## Histogram of Fueling Amounts



## Dispensed Hydrogen per Day of Week



## Station Capacity Utilization



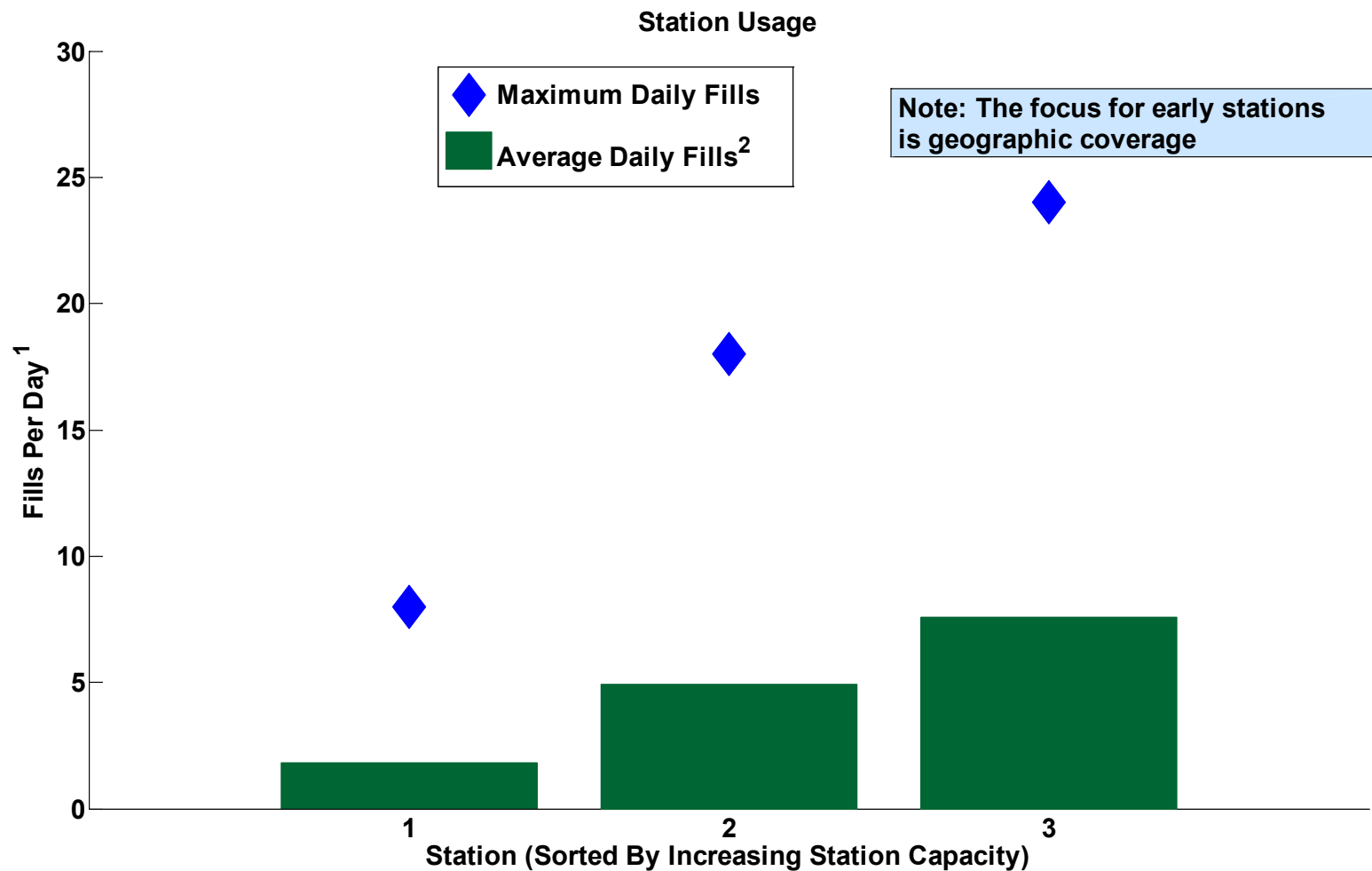
<sup>1</sup>Station nameplate capacity reflects a variety of system design considerations including system capacity, throughput, system reliability and durability, and maintenance. Actual daily usage may exceed nameplate capacity.

<sup>2</sup>Maximum quarterly utilization considers all days; average daily utilization considers only days when at least one filling occurred



# CDP-INFR-07

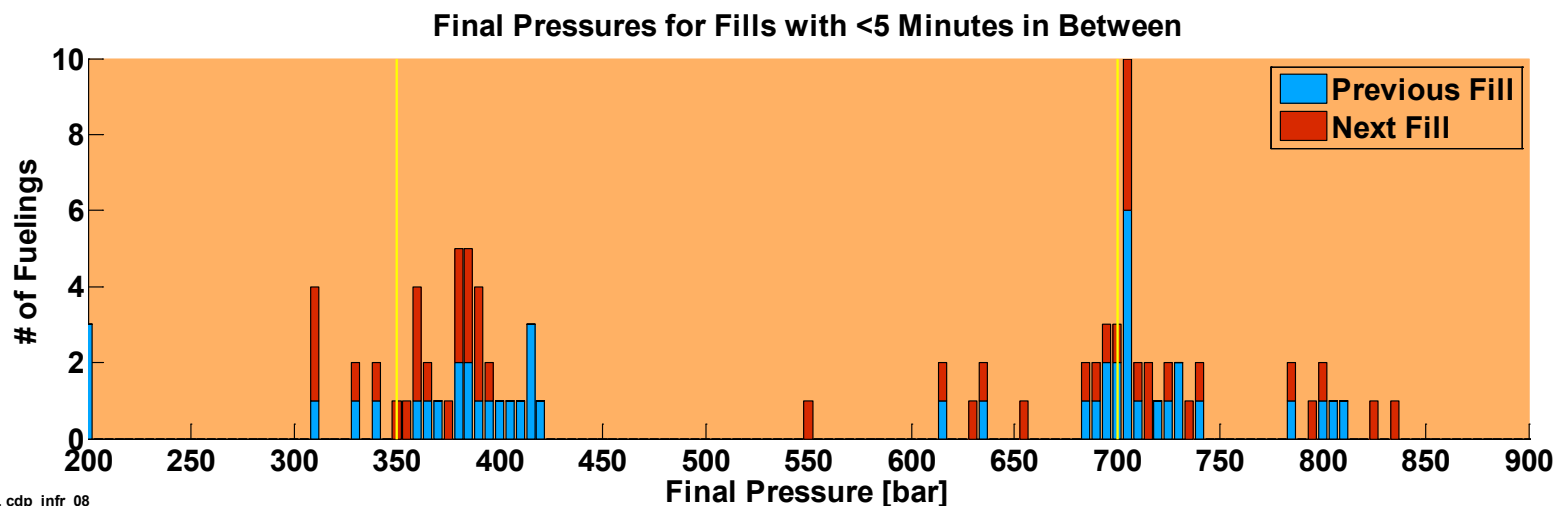
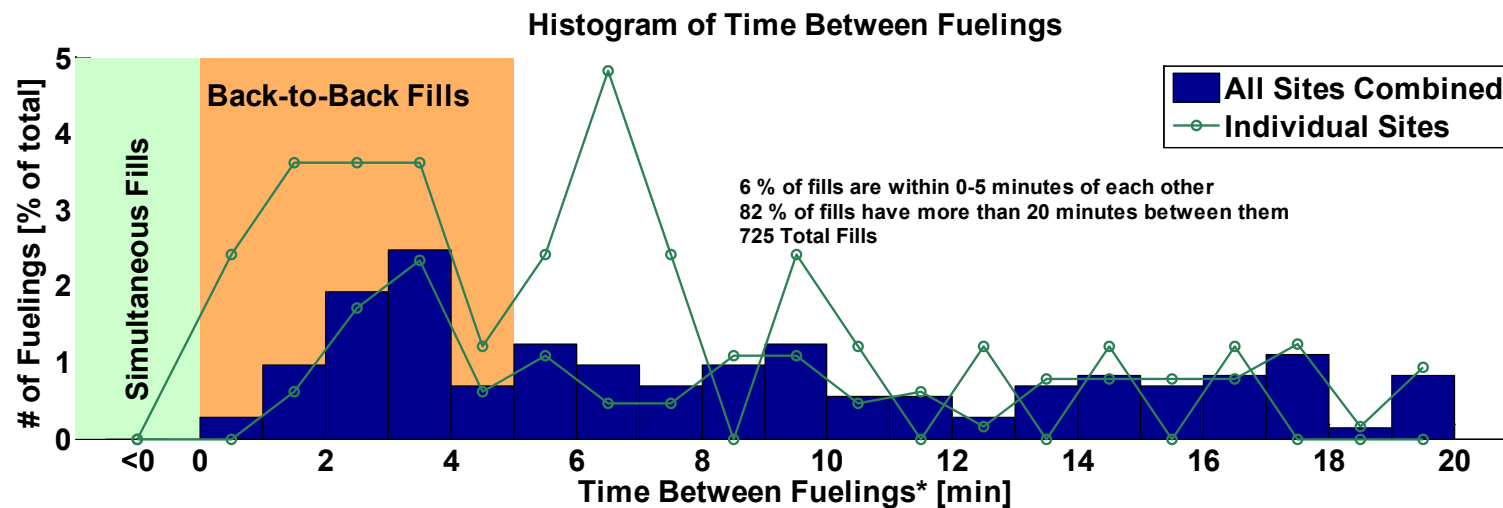
## Station Usage



<sup>1</sup>Excludes hydrogen fills of < 0.5 kg

<sup>2</sup>Average daily fills considers only days when at least one fill occurred

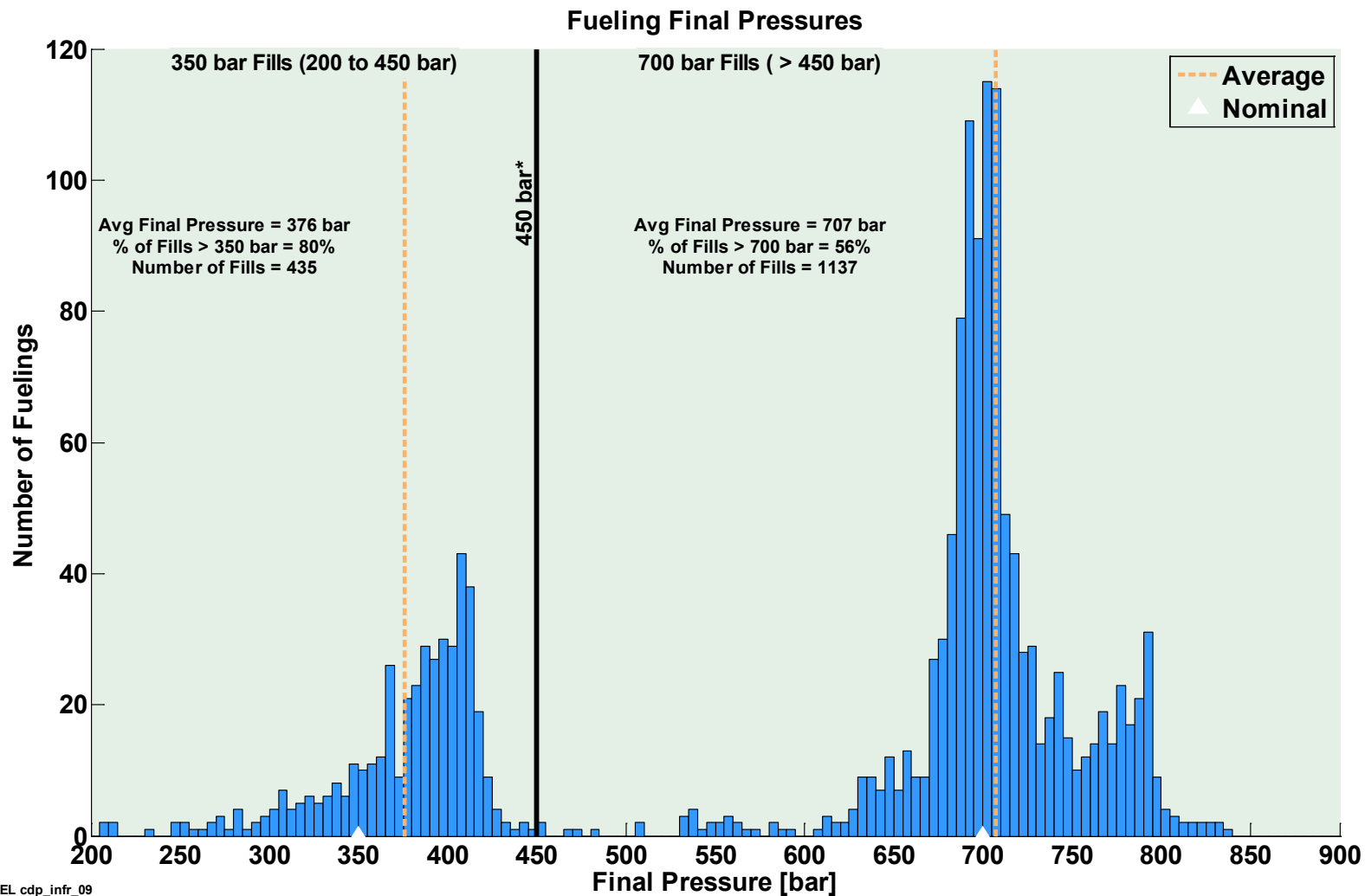
## Time Between Fueling



\*Time is from end of fill to start of next fill.

# CDP-INFR-09

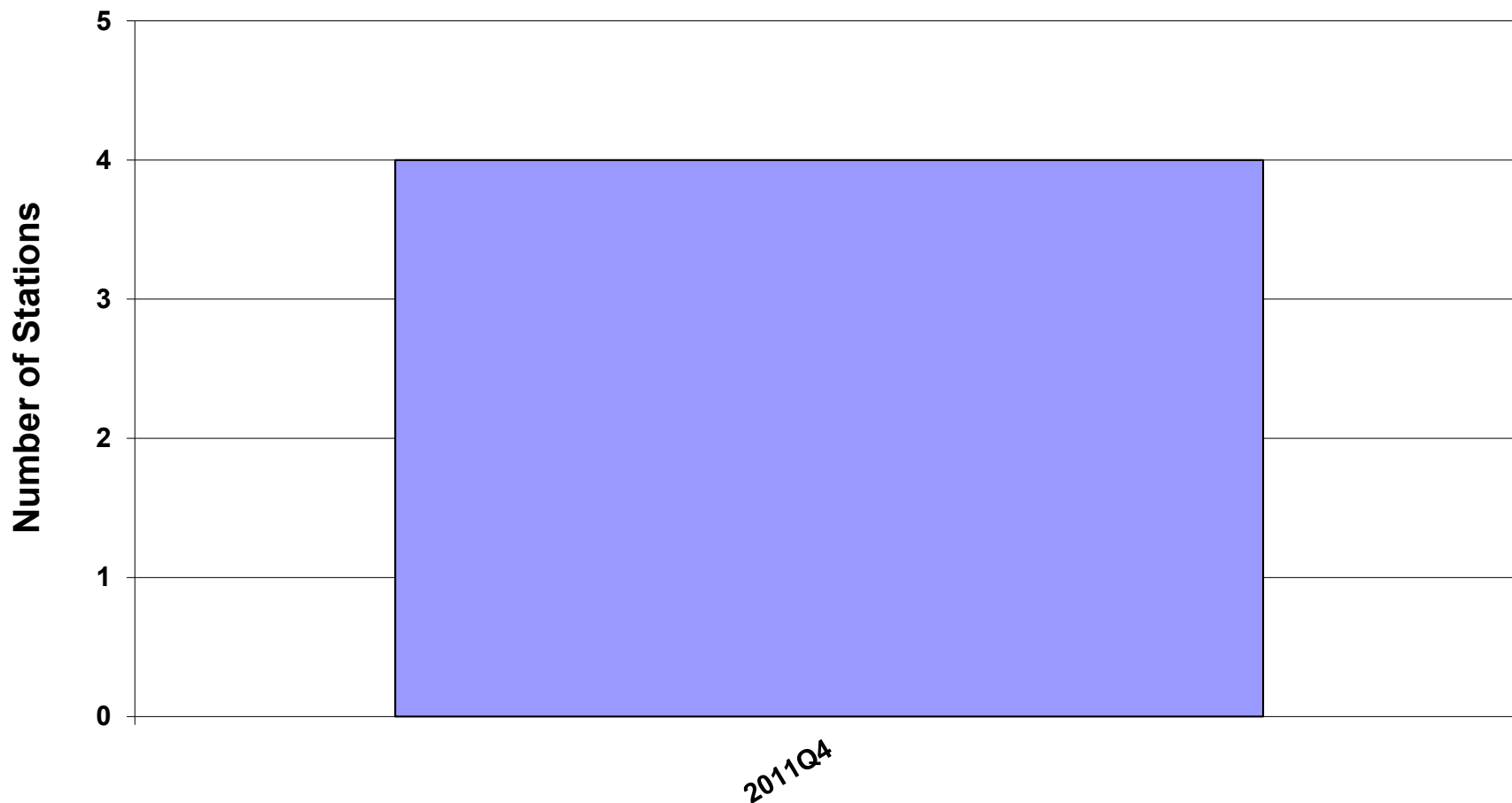
## Fueling Final Pressures



\*The line at 450 bar separates 350 bar fills from 700 bar fills. It is slightly over the allowable 125% of nominal pressure (437.5 bar) from SAE J2601.

## Cumulative Number of Stations

Cumulative Stations

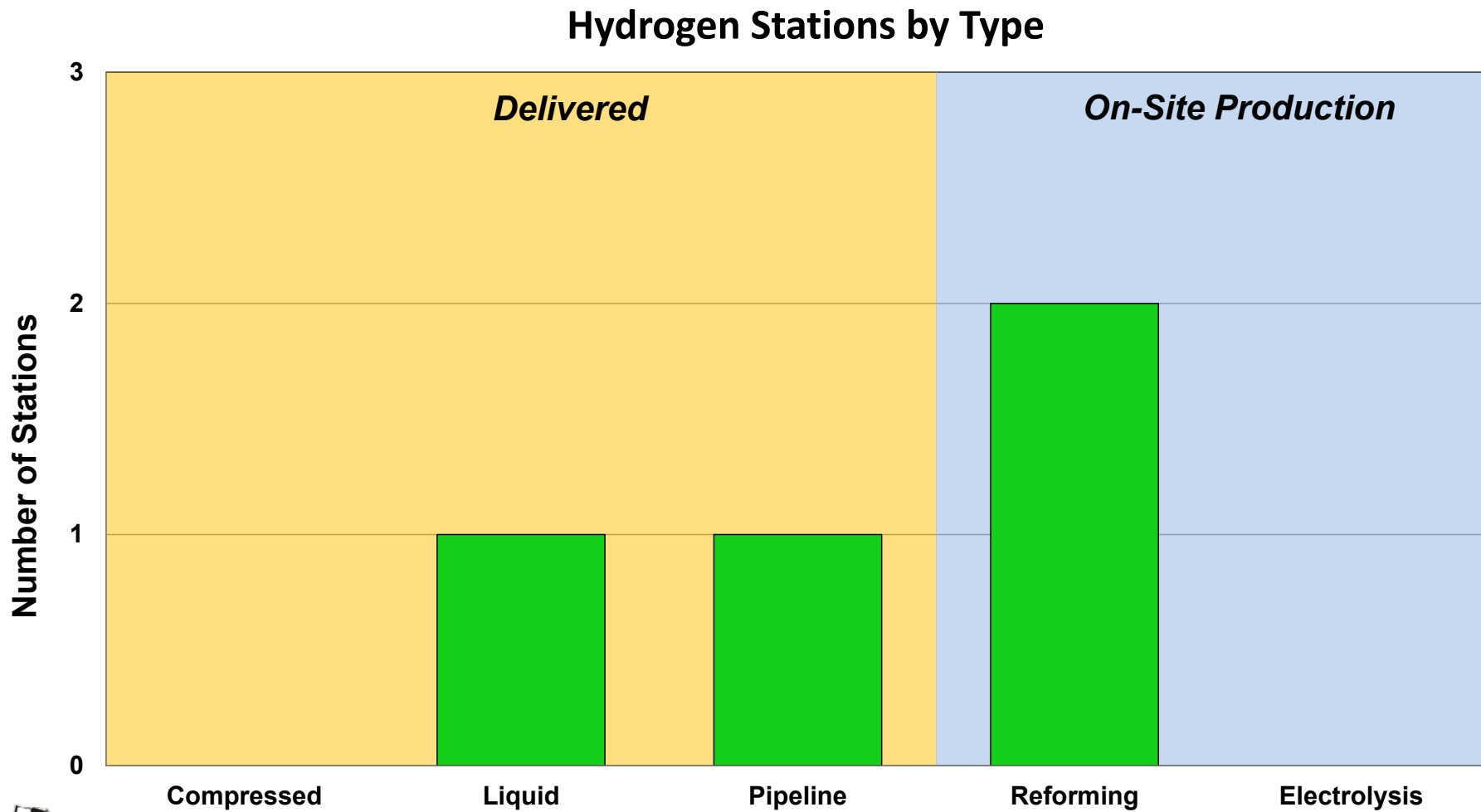


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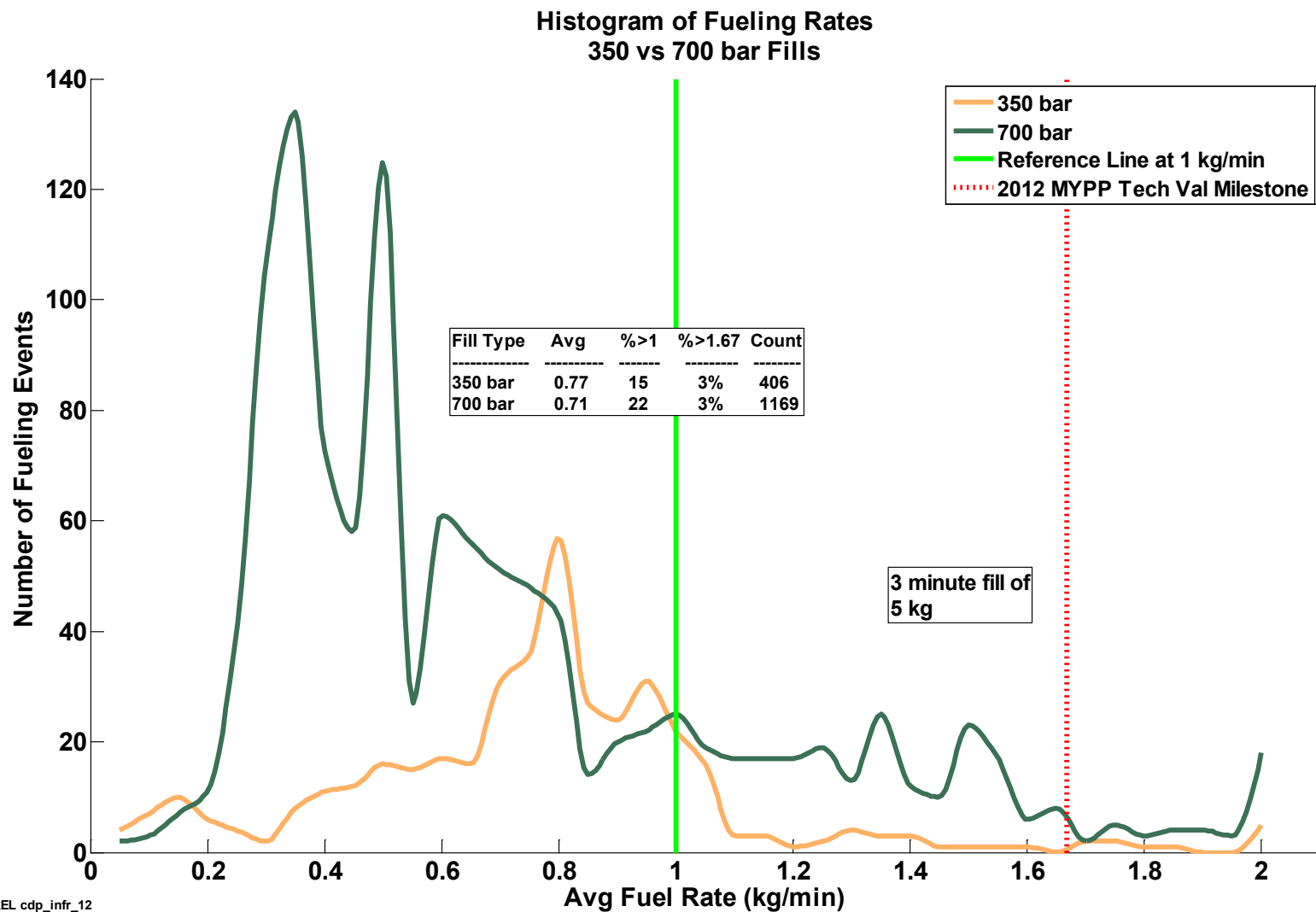
Reporting Period

## Hydrogen Stations by Type

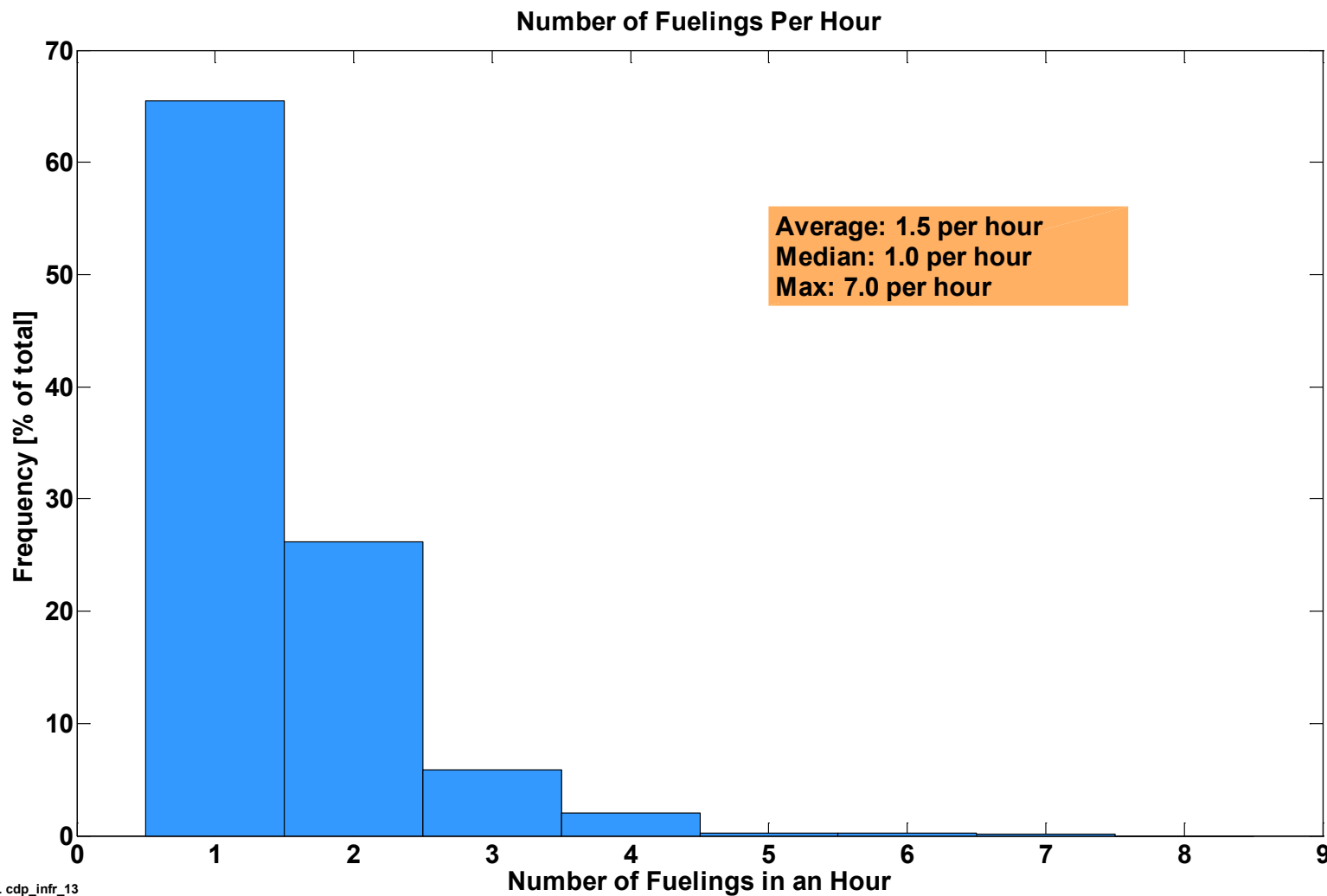


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## Fueling Rates 350 vs. 700 bar



## Number of Fueling Events per Hour



## Hydrogen Dispensed per Hour

