



Is An Independent Part of



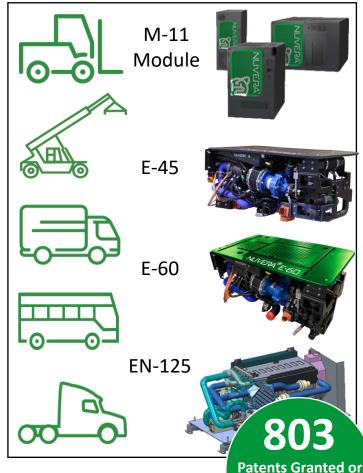




Fuel Cell Durability Test Facility – Osio, Italy



4,000 m² Test Cells & Manufacturing Plant



Nuvera products are BUILT FOR WORK

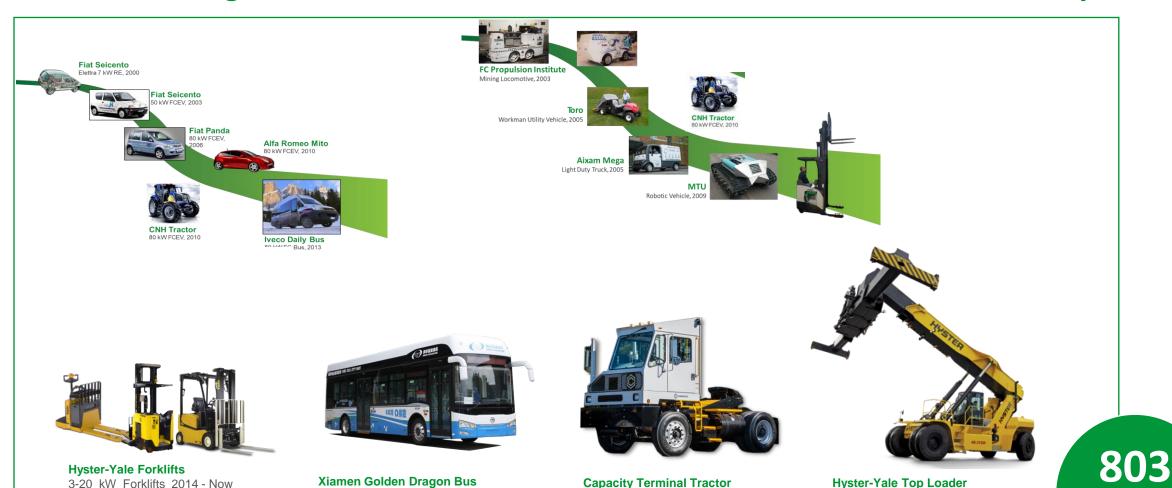
© 2022 Nuvera Fuel Cells

Pending Worldwide

25+ Years of Mobility Experience

45 kW FCEV, 2020

Embedded in High-Performance Nuvera Fuel Cell Power Solutions Provided Today



45 kW Terminal tractor, 2022

© 2022 Nuvera Fuel Cel

90kW FCEV, 2022

3-20 kW Forklifts 2014 - Now

Patents Granted or Pending Worldwide

E-Series Engines for Versatile Applications

Broad Range of Real-World Use Cases

On-Road Applications



7.5t Truck E-45



Refrigerated **Delivery Truck** E-60, ZRHE



10.5m Bus E-45, ZRHE



Prototype Car E-60

Other HD Applications



Stationary Power E-45



Container Handler 2xE-45, HYG



Port Tractors E-45, Capacity



Mobile Power Station Reach Stacker E-45, Dannar

E-60, Devinn



2xE-45,

Hyster Yale

Port Tractor E-60

© 2022 Nuvera Fuel Cells | All rights reserved | 4



Engine Efficiency > Making Hydrogen Work For You

Application duty cycle critical to understanding cost and lifetime in real-world service

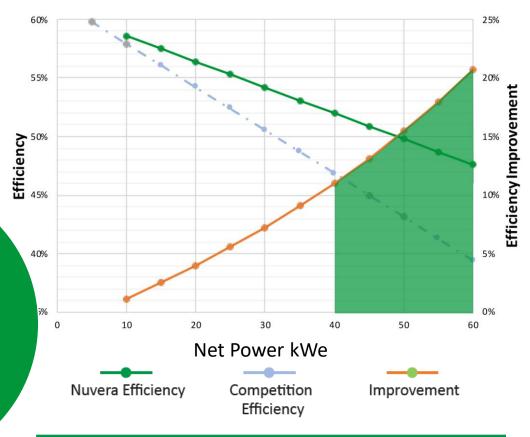
Cost of ownership for fuel cell engine:

- + Upfront *cost of fuel cell engine*
- Minimum power requirements
 for application over product
 life
- Hydrogen usage, a function of fuel cell engine efficiency
- Durability of Fuel Cell Engine
- + Service and preventive maintenance costs

Nuvera provides
20% efficiency
benefit where it's
needed most – in
high-power
WORK ZONE
performance.

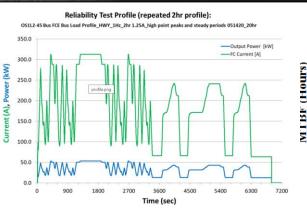
DELIVERY TRUCK CASE STUDY

Efficiency of Nuvera E-60 vs. Competition



Engine Reliability Testing \rightarrow More Time At Work







Test Group	Hours	Comments
Verification	12,550	DVP Testing
Phase 1 RG	11,512	2202 hr MTBF
Phase 2 RG	13,233	2589 hr MTBF
	37,295	hours
	30	km/hour
	1,118,850	km equivalent on road

MTBF >2500 Hours → 99% System Availability in Typical Vehicle Application

