

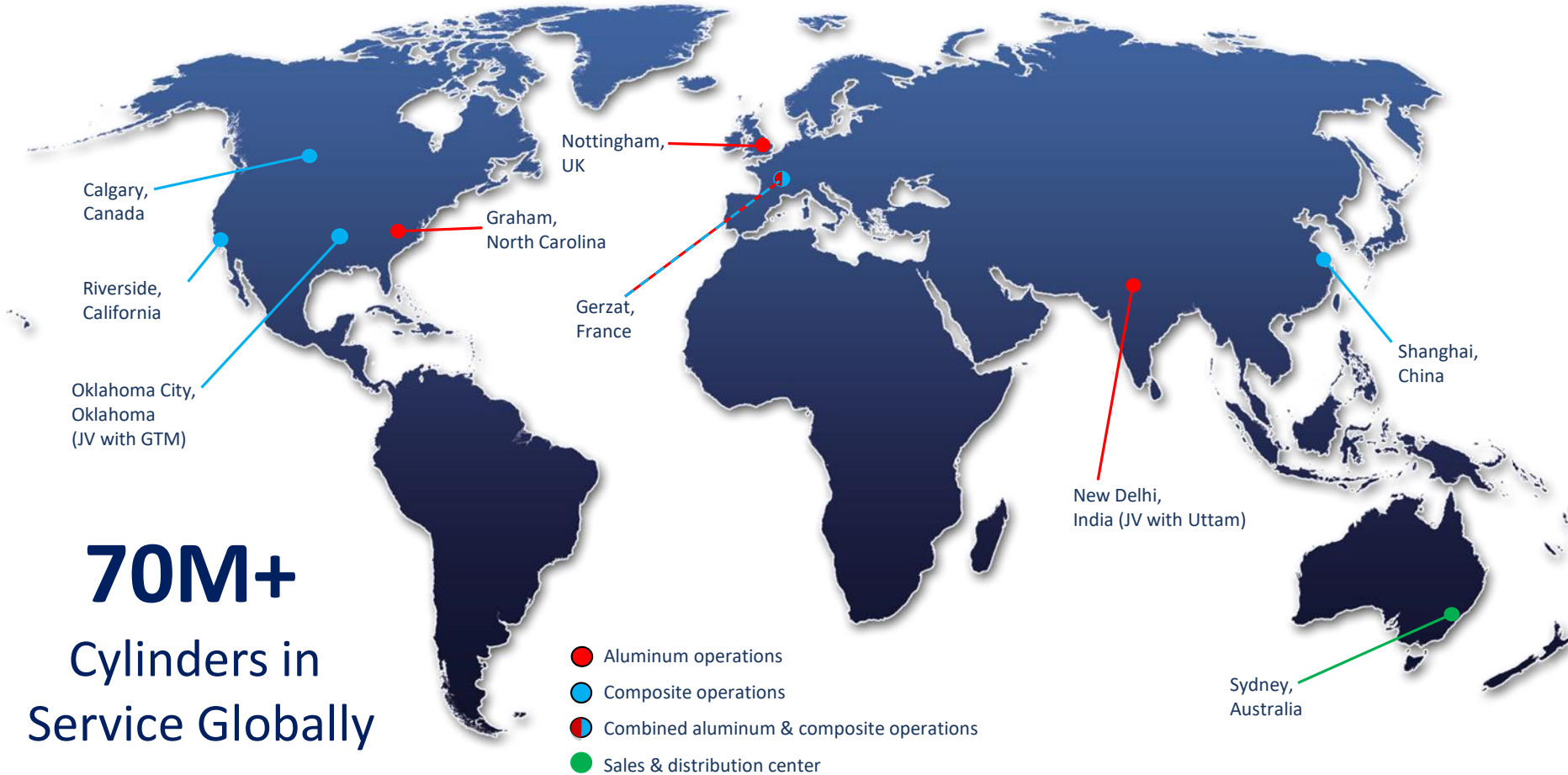


**Efficient & Safe Alternative Fuel Mobility-
Role of Composite Cylinders**

Speaker : Karan Bhatia

LUXFER GAS CYLINDERS FOOTPRINT

World's largest manufacturer of high pressure aluminum and composite gas cylinders



2M Cylinders per Year, 6 Major Sites, 2 Joint Ventures, 730 Employees



Product We Offer



NGV Cylinders



NGV Systems



Cylinder Bulk Hauling



Container System



Hydrogen Products

Products



LUXFER ALTERNATIVE FUEL MARKETS



Transit



Vocational



Light Duty/Medium Duty



OTR Class 8 Heavy Duty



School Bus



Others (Bulk Gas Transport, Refuelers, Portable Generators)

Luxfer Used Across Variety of AF Vehicles & Fuel Systems

G-STOR PRO (TYPE 3) EXAMPLES: TRANSIT



NABI/ USA



Van Hool/Belgium



EvoBus/ Germany



Neoplan/Germany



BMC/ Turkey



Tata Motors/ India



Otokar/ Turkey



Omni AB/ Sweden



Bredamenarini/Italy



**IrisBus/ Heuliez/
IVECO France**



**CNG Hybrid IrisBus
Castrovia/ Spain**



**Scania/
Sweden & Poland**

Over 10,000 Buses Use Luxfer Gas Cylinders

G-STOR H2 (HYDROGEN) EXAMPLES



NEW FLYER



PLUG POWER



LUXFER (H2 TRANSPORT)



HYUNDAI



Tata Motors/ India



LUXFER (PORTABLE H2)



BAE SYSTEMS

Global Leader in H2 AF Cylinders



Hydrogen Systems In INDIA



- Mahindra- High Pressure Cylinder @ 350 Bar- IC Engine Technology
- TATA- High Pressure Hydrogen Cylinder System @ 350 Bar- Fuel Cell Technology
- TATA Small Vehicle – Hydrogen Cylinder @ 350 Bar



CNG BULK GAS



Gas Transportation Modules



Virtual CNG Pipeline



Refuelers



Portable Generators

Variety of Bulk Gas Solutions

APPLICATION IN INDIA



LUXFER UTTAM INDIA PVT. LTD.



BGT System Comparison

- **Conventional Steel Cylinder Cascade**
Max. Capacity for 10 ton Vehicle - 4500 Ltrs.
Lesser Gas Carrying Capacity – 600 Kgs
Corrosion Issues

Type 3 Cascade

- Capacity for 10 Ton Vehicle- 8800 Ltrs**
Gas Carrying Capacity – 1500 Kgs
Immune to any Kind of Corrosion



BGT IN INDIA

• Satisfied Customers



Sanwariya Gas



Gujarat Gas



MNGL



MGL

BGT IN INDIA

• Satisfied Customers



IRM



Torrent/Mahesh Gas



Sanwariya Gas



Ashoka Buildcon



IGL



LUXFER
GAS CYLINDERS

MEGHA ENGINEERING

Benefits

Acts as a Virtual Gas Pipeline

Gas Carrying Capacity Increased to approx. 3 times.

Transportation Cost reduces to 1/3rd

Lesser Carbon Emissions

Thank You !!!!!