STORHY FINAL EVENT
HYDROGEN STORAGE SYSTEMS FOR AUTOMOTIVE APPLICATION
PSA POISSY, JUNE 3-4, 2008

700 bar Type III Hydrogen Pressure Vessel with Steel Liner

Presented Object

- **Type III fully wrapped composite cylinder with steel liner**

Characteristics

- Design requirements according to European Integrated Hydrogen Project (EIHP-II)
- Working pressure: 700 bar
- Dimensions: 300 mm diameter x 925 mm length
- Volume: 39 l
- Weight: 40 kg
- Neck size: 1.125”-12UNF

Status & Future Perspectives

- Prototypes satisfactorily tested for a reduced number of filling cycles as contemplated by the EIHP II.
- The fatigue behaviour requirement set by the European Integrated Hydrogen Project is achievable using higher modulus carbon fibres.
- Further study of the composite material (matrix and fibres) is needed in order to take full advantage of fibres with higher modulus.

Partners	❖ Faber
Website	www.storhy.net
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