

Electric Drive

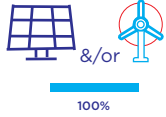
Battery vs Hydrogen[H2/FCEV]

Efficiency rates comparison using eco-friendly energy

Electric via GRID (AU data):

Well-To-Tank

Energy



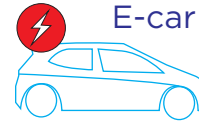
100%

Remote energy 'farm'
200KM from your home

Transportation
and Storage



LOSS 15%
85% 'left'



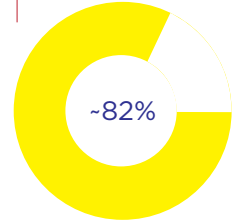
Tank-To-Wheel

Electric Battery
(high capacity)



LOSS -3%

E-engine



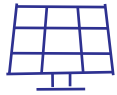
Overall Efficiency Rate

22KW - CAR
90KM/h

Electric via SOLAR @ HOME (with inverters in loop):

Well-To-Tank

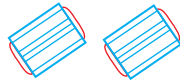
Energy



100%

SOLAR ON YOUR ROOF@HOME

Inverters
(on-grid home)



LOSS 6%
94% 'left'

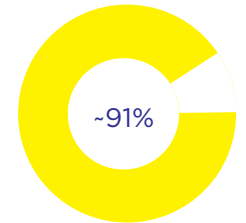
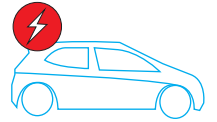
Tank-To-Wheel

Electric Battery
(high capacity)



LOSS -3%

E-engine



Overall Efficiency Rate

60KW - CAR
250KM/h

Electric via SOLAR/WIND-FARMS & ON-SITE MEGAPACK (Trucking):

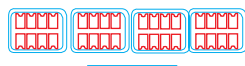
Well-To-Tank

Energy



100%

7MWH+ MegaPack
on-site Storage



LOSS 2.5%
97.5% 'left'

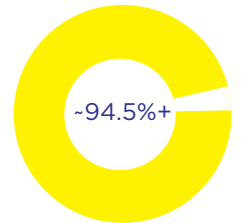
Tank-To-Wheel

Electric Battery
(high capacity)



LOSS -3%

E-engine



Overall Efficiency Rate

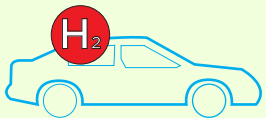
x25:
1,500KW - 1.5MW
6,250KM/h (car)
800KM/h (SEMI)

'think 10x car'



Electric via H2/FCEV:

Hydrogen
-car/truck



Energy



100%

Electrolysis



PT-LOSS 25%

Compression and
liquefaction



PT-LOSS 12%

Transportation and
filling



PT-LOSS 9%

Fuel cell and
power generation



PT-LOSS 27%

Electric battery
(low capacity)



PT-LOSS 5%

E-engine



~22%

Overall Efficiency Rate

PT-LOSS = Percentage points of the original total amount of energy lost at each stage/process

NOTE: This chart shows H2 Transportation as a liquid - when transported as a gas @ 200-BAR the compression loss is only 6%-PT at this stage, however, the total energy cost can be more as you need 10X as many trucks to move 5,000KG of H2 @ 200-BAR