Driving towards a sustainable world with carbon recycling

Renewable energy is supplied to the "refinery" to convert CO_2 into petrol using catalyst reaction technology

1

$CO_2 + H_20 \rightarrow$ petrol/diesel

The CO_2 from the filling station is transferred back to "refinery"

8

2

Conventional transportation of petrol

Filling Station

7

Download CO_2

New infrastructure needed for this, but CO_2 is "safe"

6

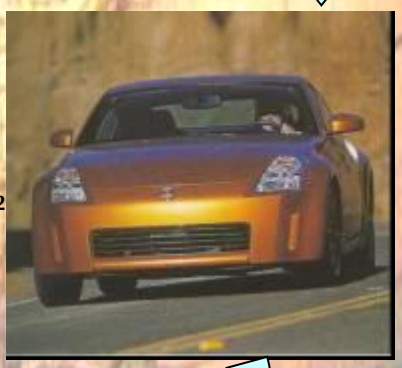
Fill up with petrol/diesel

3

Present infrastructure is retained unchanged

O_2 separation and CO_2 compression efficiently heat integrated to minimise energy demand

Drive around storing liquid CO_2 on board



Engines uses O_2 separated from air. Pure CO_2 easily compressed

No emissions

Drive a ZEPV (Zero Emission Petrol Vehicle)

5

4

No street pollution
No Global Warming
No sulphur dioxide
No nitric oxide

We're on the right track – are you?

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