Energy Demand for Tractors

Level 1

In level 1 there is no further improvement in efficiency of tractors. Diesel usage remains at 4.5 liters per hour. Total diesel demand reaches to 8.3 TWh by 2050 from 1.8 TWh in 2015.

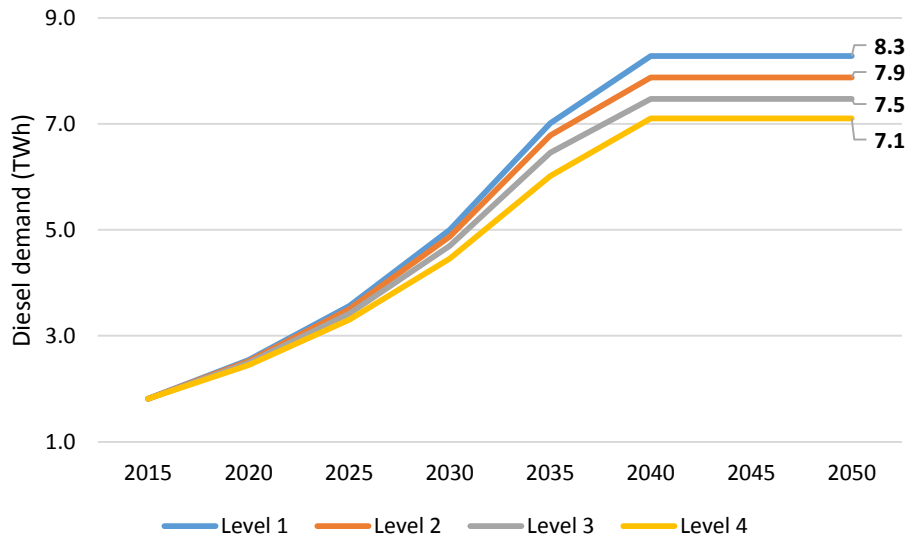
Level 2

There is slight improvement in efficiency of tractors. The demand for diesel reaches saturation at 7.9 TWh. The specific energy consumption reduces to 4 liters per hour from 2035 onwards.

Total number of tractors in the state was about 0.17 million in 2015 and it has been increasing at the rate of 7 percent annually. Given the government's focus on improving farm productivity and the fact that only 26% of potential market has been captured till now, this trend is expected to continue. This means that complete farm mechanization will reach by 2040 and penetration of tractor will reach to its full potential by then. Total annual demand for diesel from tractors is estimated to be about 0.16 million tons (MT) in 2015.

Level 3

Level 3 assumes that specific energy consumption will further reduce due to various measures taken by policy makers, like more stringent standards will be in place to improve the specific energy consumption in tractors. The diesel demand grows to 7.5 TWh by 2040 and remain same thereafter.



Level 4

Suitable policy measures for improving specific energy consumption will be in place. This will include policies like new standards to restrict sales of inefficient tractors and deregulation on diesel prices for agriculture sector. The Diesel demand grows to 7.1 TWh by 2040 and remains same.