**MODULE 1 – EV in Energy Transmission**

1.2 Business Perspective of EV

Practice Problems

Question 1 From a business perspective, the economic triangle will create added value for our economy. There are three factors that form this triangle. What are they?

* The economic triangle is formed by Renewable energy, Connected logistics and Smart e-mobility.
* The economic triangle is formed by Sustainable energy, Internet of Things (IoT) and Autonomous vehicles.
* The economic triangle is formed by Internet of Things (IoT), Mobility sharing and Information Communication Technology (ICT).

Ans. A

Question 2 The diagram below is an adaptation from a slide you have previously seen in the lecture. Please use it to answer questions 2 and 3.



Using the diagram, explain why fuel based on Tar sands should be replaced by renewable electricity?

* WTT- loss, Well-To-Tank - loss, is about two times more when tar sand is used as a fuel than renewable electricity.
* WTT- loss, Well-To-Tank - loss, is four times more when renewable electricity is used as a fuel than tar sand.
* WTT- loss, Well-To-Tank - loss, is six times more when tar sand is used as a fuel than renewable electricity.

Ans. A

Question 3 Using the above figure, explain why ICE should be replaced by EV?

* TTW-loss, Tank to Wheel-loss, is about five times more in case of ICE than EV.
* TTW-loss, Tank to Wheel-loss, is 20 times more in case of ICE than EV.
* TTW-loss, Tank to Wheel-loss, is three times more in case of EV than ICE.

Ans. A