

SCANIA CLIMATE DAY QUIZ

1.

Intro

When using energy, we indirectly emit CO₂ into the atmosphere depending on energy source.

At Scania, we have set usage targets related to

- Energy source:
100% fossil free electricity by 2020 for Production and Logistics
- Amount of CO₂ we emit from our total operations:
50% reduction 2025 compared to 2015.

Different types of activities require varying amounts of energy. Using less energy can automatically decrease your CO₂ footprint.

Question

How much did Scania's production unit in Angers reduce its electricity usage in lighting systems by entirely switching to LED lights and altering the control system?

- A. 10 %
- B. 40 %
- C. 60 %
- D. 80 %

Answer

C: When production in Angers switched to LED lighting, electricity usage was reduced by 60%. And, it also led to major cost savings – it reduced the electricity bill by 40%.

2.

Intro

As a global industrial company, Scania has both direct and indirect CO₂ emissions.

- **Direct emissions** are, for example, those that emanate from our production or company vehicles.
- **Indirect emissions** are, for example, those that our products emit when in use or from our supply chain.

Question

What percentage of a truck's CO₂ footprint is generated when the product is in use?

- A. 26%
- B. 46%
- C. 76%
- D. 96%

Answer

D: Approximately 96% of a Scania truck's total CO₂ footprint comes from when the product is in use.

Scania's main contribution to reversing climate change is to focus on enabling our customers to run their operations with as low CO₂ emissions as possible:

- offering the best fuel consumption
- providing them with alternatives to conventional diesel
- supporting them to operate their vehicles and fleets as efficiently as possible.
- providing excellent workshop services to optimise vehicle performance

We also have a responsibility in ensuring that our own emissions are as low as possible. With the tough target of halving CO₂ emissions between 2015 and 2025, we, ourselves, have the power to take initiatives.

3.

Intro

When you compare (greenhouse gas) emissions from different fuels, also the production of the fuel must be taken into account. This is called Well-to-Wheel (WtW) emissions and include all emissions from producing the fuel to the emissions that exit the tailpipe of the vehicles.

Scania has the largest variety of vehicles for renewable fuels on the market. For example, biogas, biodiesel and bioethanol.

Renewable fuels emit CO₂ just as fossil fuels do, but they have a carbon-neutral life cycle. This means that when the biomass (plants, trees) grows it captures carbon equal to what is released when it is burned.

Question

How much lower can the Well-to-Wheel CO₂ emission be for the renewable fuel biogas compared to diesel?

- A. Up to 45%
- B. Up to 60%
- C. Up to 75 %
- D. Up to 90 %

Answer

The reduction varies depending on how the biogas is produced but can be up to 90% compared to diesel. Biogas can be produced from food waste, manure and sewage and other organic material.

4.

Intro:

Different activities generate varying CO₂ emissions and different actions can therefore lead to different savings.

Question

Rank the following alternatives high-to-low regarding CO₂ savings (1-Highest to 4 Lowest)?

- A. If all Scania employees turn off their **computers** when going home.
- B. If 2% of Scania's delivered vehicles (2017) would run on **biogas** for one year?
- C. If 100 employees used **web meetings** instead of making ten two-hours return flights.
- D. If Scania production increases **recycling of plastic** by 25%, from 900 tonnes per year at present.

Answer

1. B. (Biogas) It would save **140,000 tonnes** CO₂ per year. This is by far the greatest reduction we can contribute to! This is calculated on biogas from municipal organic waste.
2. D. (Recycle plastic) Scania could save around **600 tonnes** CO₂, annually, if 25% more plastic waste than today's 900 tonnes is sent to recycling.
3. C. (Web meetings). Around **500 tonnes** CO₂ economy class/year
4. A. (Computers). **Nearly zero** since we in most places already use fossil free electricity. However, computers still require energy and reducing our energy usage is important considering, for instance, the volatility in the supply of green electricity. With the energy reduction, Scania would annually save more than 350,000 euro.