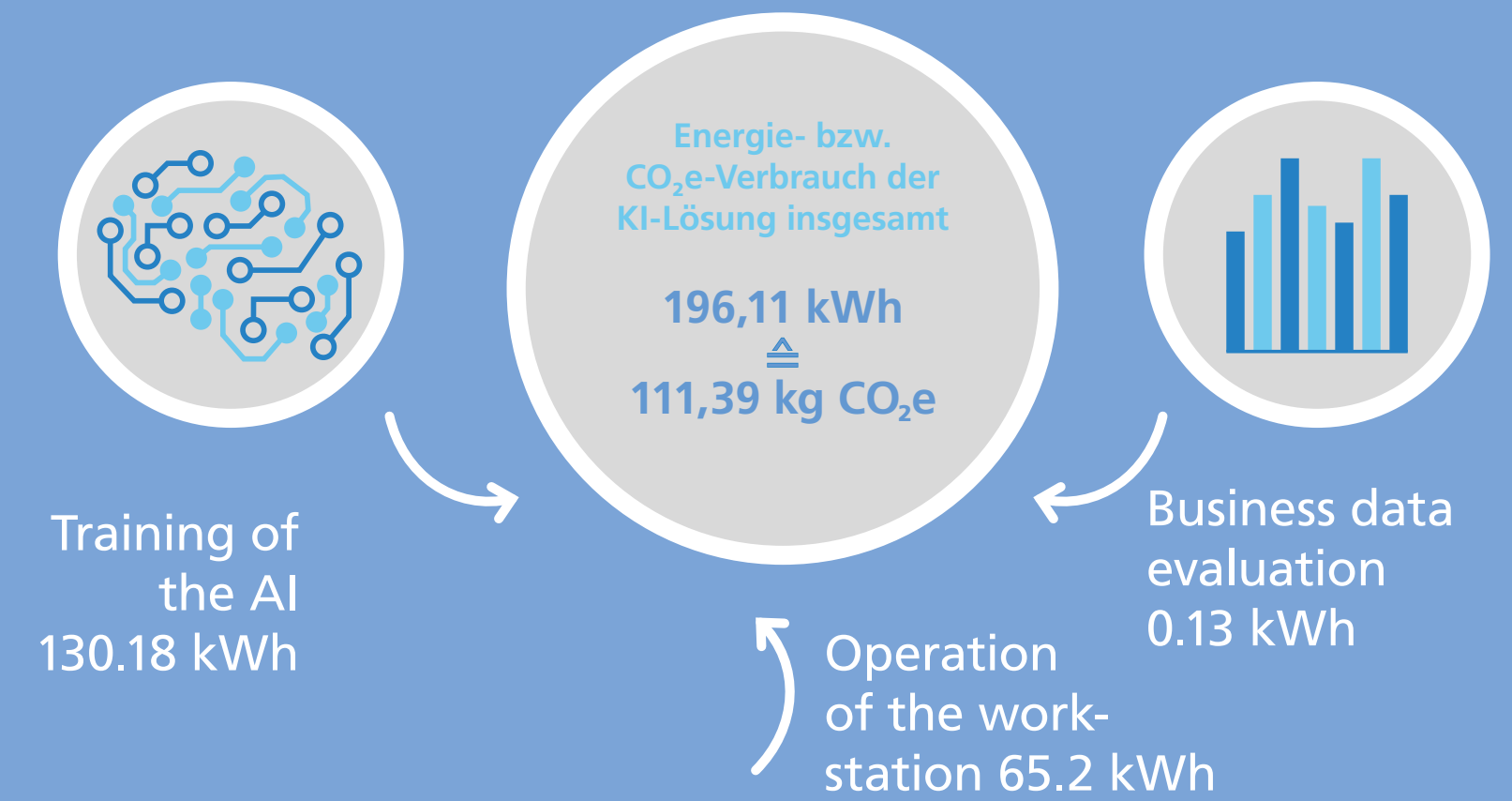


Using the automatic identification technology developed in the »EIBA« project, only one percent of used starters are rejected by mistake, compared to around six percent when they are sorted manually. This means that five percent more parts can be remanufactured. Compared with new production, the emissions saved per remanufactured component amount to 8.8 kg CO₂e. In our example calculation with 63,000

sorted parts per year, we thus arrive at a total of 27,558 kg CO₂e. After subtracting the emissions generated during training and operation of the AI, this results in

✓ **net savings of 27.5 tons of CO₂e per year through the use of the AI solution.**



Traditional manual sorting process



63,000 starters / year sorted



Automatic identification with the AI solution



Incorrectly sorted parts approx. 6 % (3,765)



Incorrectly sorted parts approx. 1 % (634)

ANNOTATIONS

CO₂e

CO₂ equivalents: unit that makes the climate impact of different greenhouse gases comparable

Energy mix

The conversion of energy consumption into CO₂ consumption was based on the average German grid mix: 0.568 kg CO₂e / kWh electricity