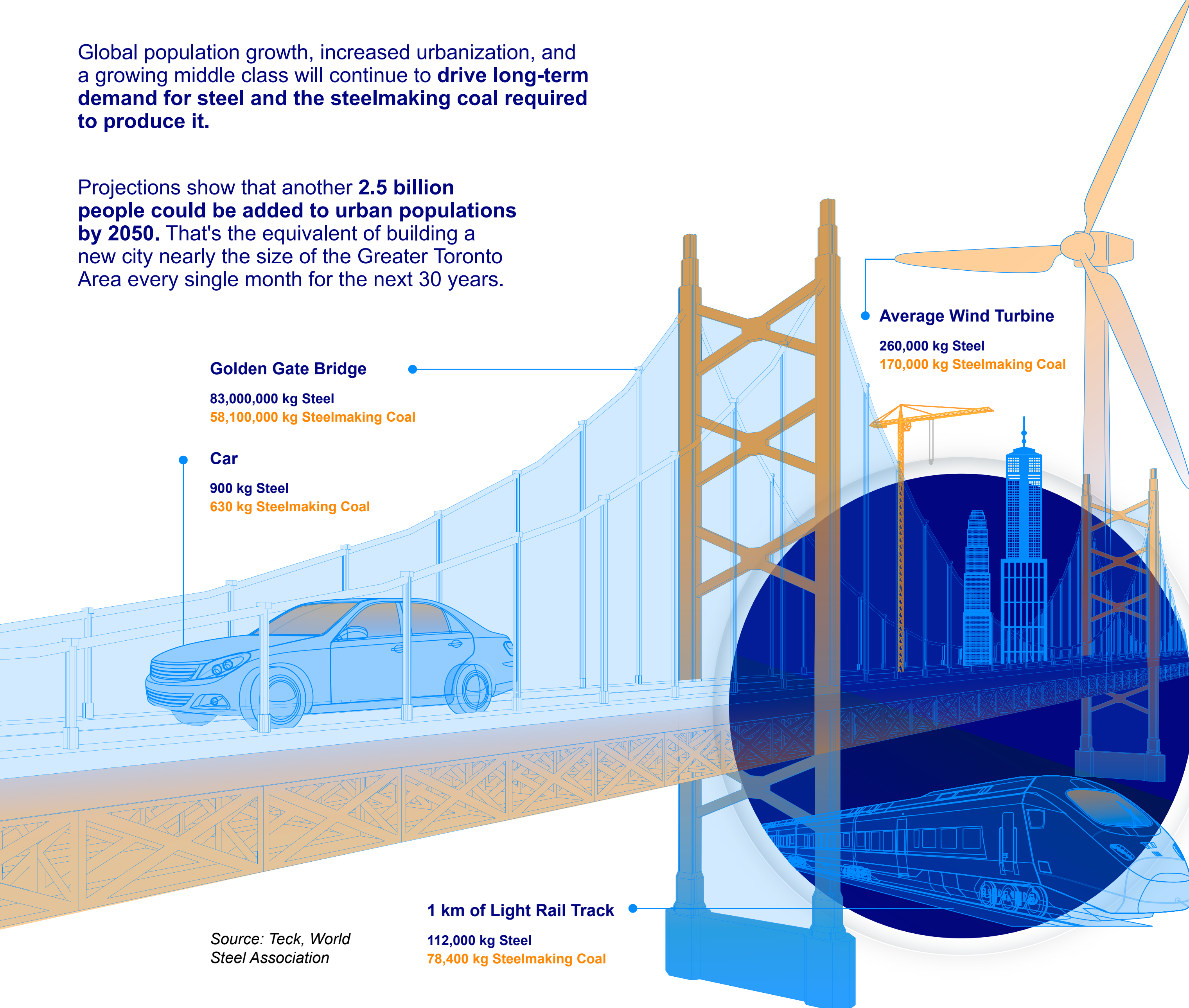


Understanding Global Demand for Steelmaking Coal

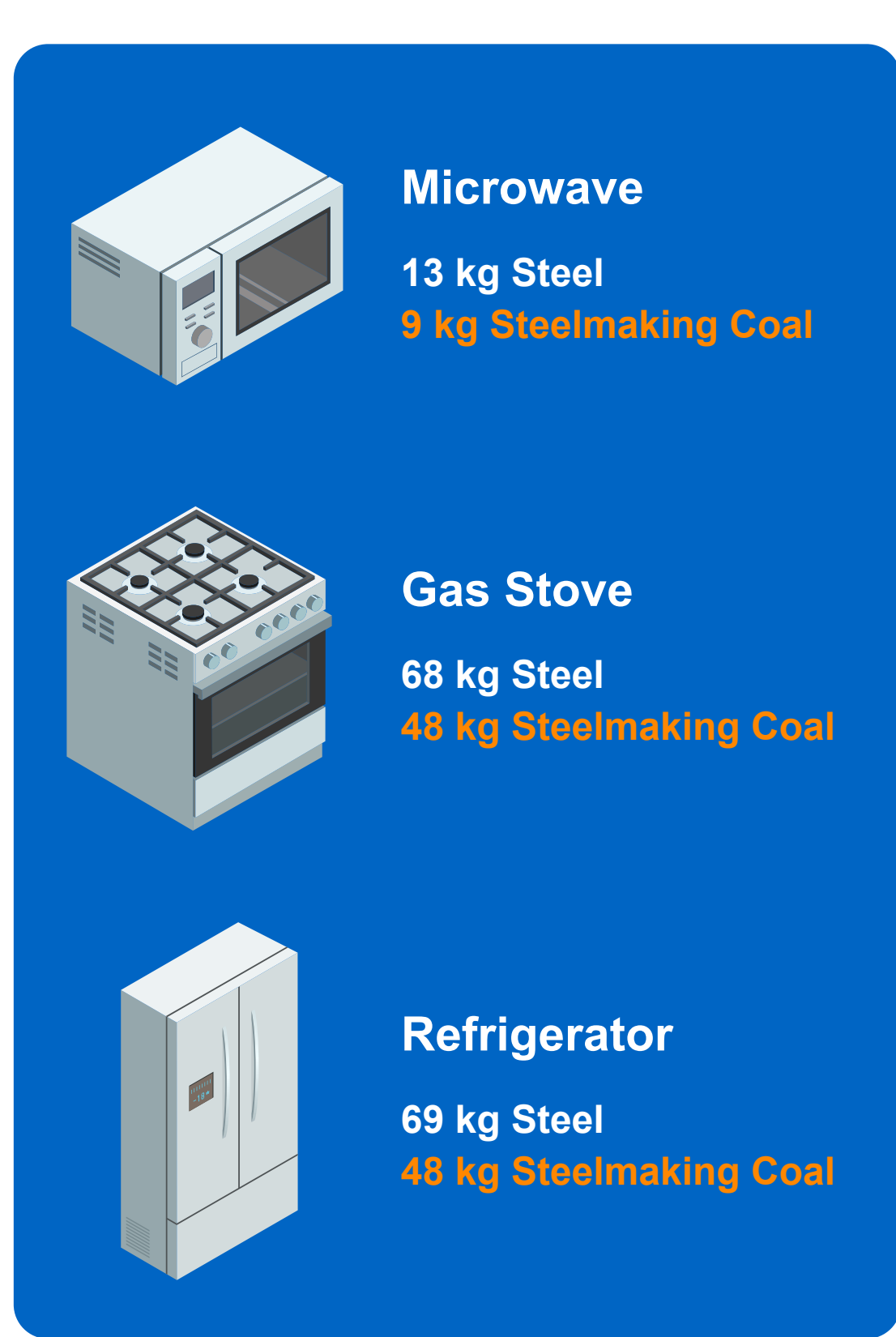
Global population growth, increased urbanization, and a growing middle class will continue to **drive long-term demand for steel and the steelmaking coal required to produce it.**

Projections show that another **2.5 billion people could be added to urban populations by 2050.** That's the equivalent of building a new city nearly the size of the Greater Toronto Area every single month for the next 30 years.

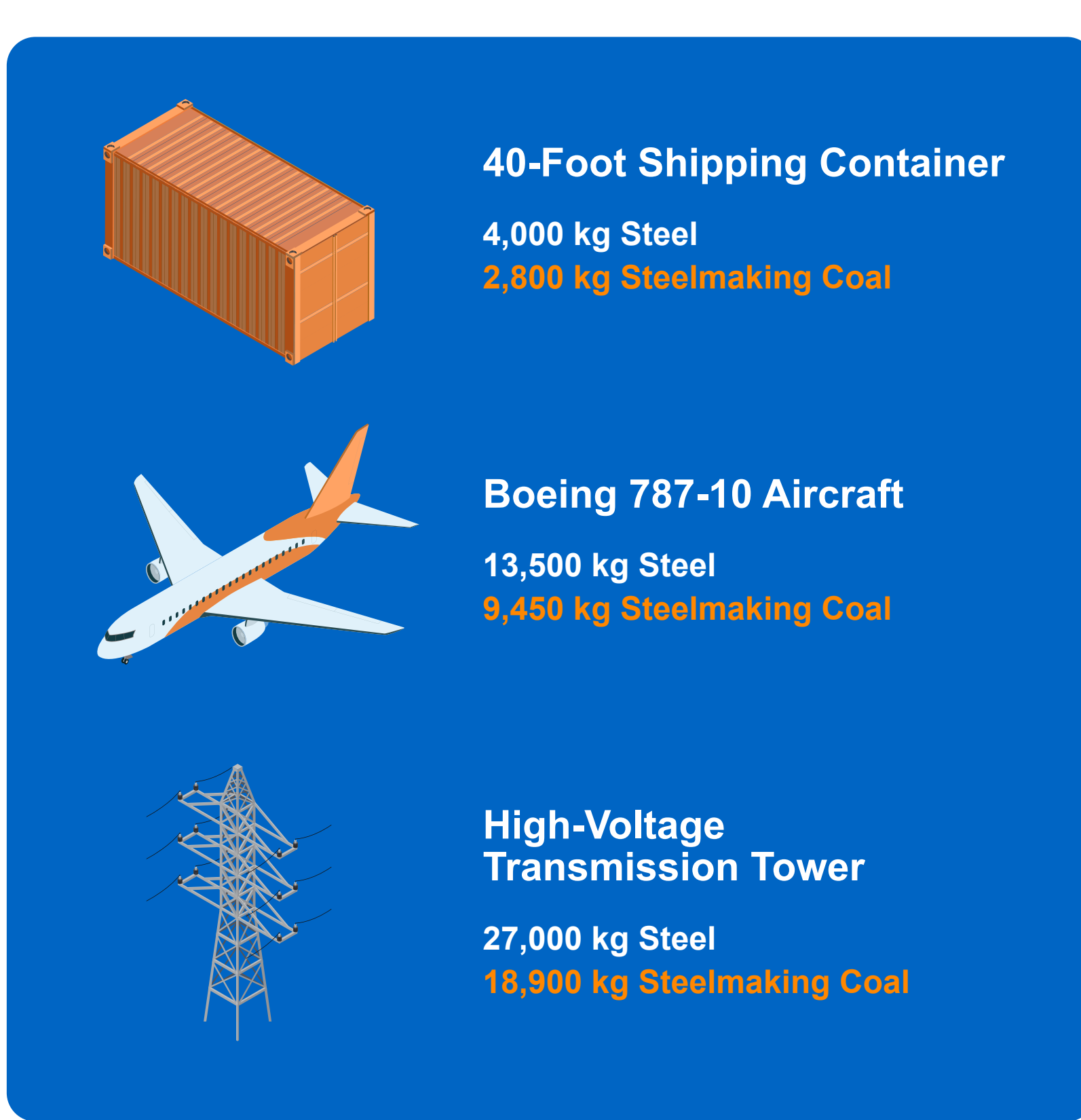


Fundamentally different from thermal coal, which is used for power, **steelmaking coal is needed to make the steel used in everything from:**

Everyday Items



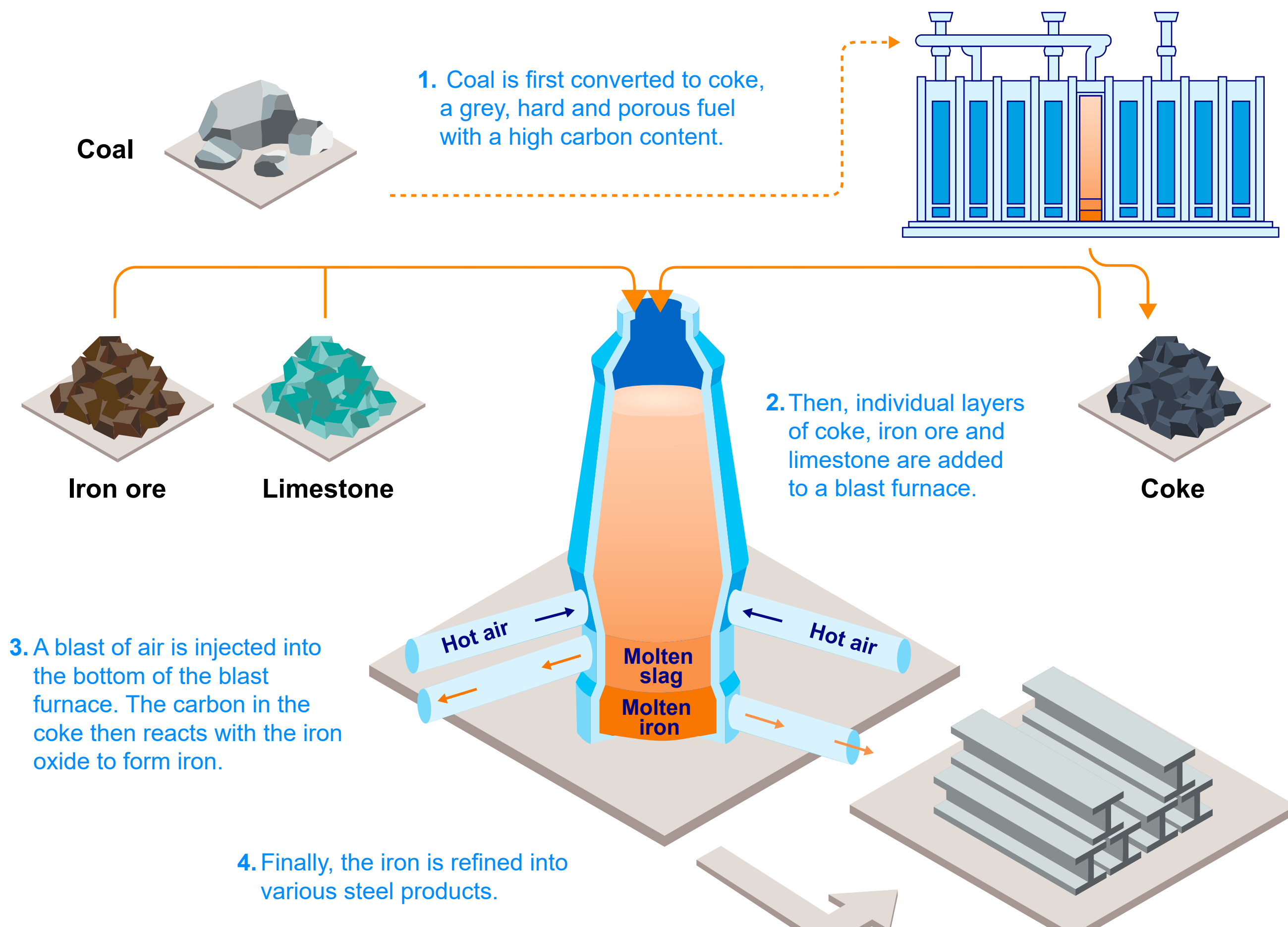
Transportation & Infrastructure



Sources: The American Iron and Steel Institute, World Steel Association, Boeing

The Steelmaking Process

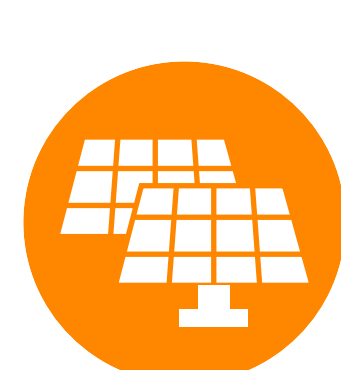
About 72% of global production of steel relies on steelmaking coal.



Source: Teck Fact Sheet

Steelmaking Coal in the Low-Carbon Future

Clean and renewable technologies needed to mitigate climate change also demand steelmaking coal.



Each megawatt of solar power requires up to 45,000 kg of steel, which requires 31,500 kg of steelmaking coal.



The average wind turbine requires up to 260,000 kg of steel, which requires 170,000 kg of steelmaking coal.

As the steel sector works to decarbonize, several primary pathways will contribute to reducing GHG emissions from steelmaking.

Carbon Capture, Utilization and Storage (CCUS) is the only commercially ready technology capable of decarbonizing the steelmaking industry at the rate and scale required by 2050 to limit global temperature increases to 1.5°C.

The CCUS Process

1. Capture

Carbon dioxide (CO₂) is captured during the steelmaking process.

2. Transport

CO₂ is transported via ship or pipeline.

3a. Utilization

Once captured, the gas can be utilized in other industrial processes such as producing fuels, or as input into chemical production.

3b. Storage

CO₂ can also be permanently stored deep underground in geological formations.

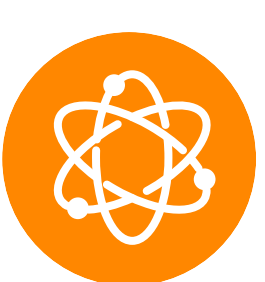
Other options to reduce emissions include:



Scrap Steel Recycling



Electric Arc Furnace Production



Hydrogen-Based Production

Sources: IOGP, IEA, World Steel Association, ArcelorMittal

As demand for steel grows in the low-carbon economy, so will the role of sustainable production.

Teck is the world's second-largest seaborne exporter of steelmaking coal and is among the lowest carbon-intensity producers.

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Learn more about steelmaking coal and its critical role in infrastructure and building a low-carbon future.

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