

**MORE
THROUGH
MALT**



From idea to result: Innovation and Energy Efficiency in Malt production



Lietuvos
Respublikos
aplinkos
ministerija

Projektas „Energijos efektyvumo didinimas Lietuvoje“ (Nr. LIFE20 IPC/LT/000002) yra finansuojamas Europos Sąjungos LIFE programos ir Lietuvos Respublikos lėšomis. Šioje konferencijoje pateikiamas LPK požiūris, ir Europos Komisija nėra atsakinga už bet kokį šios informacijos panaudojimą.



65
DIFFERENT
MALT QUALITIES

6



MALTHOUSES

THOUSAND TONNES

40

ROASTED MALTS PER YEAR

**SUSTAINABLE
LOCAL SOURCING
OF MALTING BARLEY**



MARKET POSITION

1ST

IN BALTIC RIM

4TH

IN EUROPE

8TH

GLOBALLY

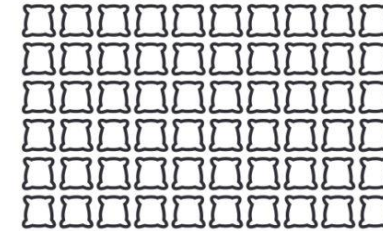
260
PROFESSIONALS



 **VIKING MALT**

**ROASTED
MALTS
WORLDWIDE
LEADER**

ANNUAL PRODUCTION CAPACITY



615 000
TONNES



FAMILY-OWNED
COMPANY
FOUNDED IN

1883



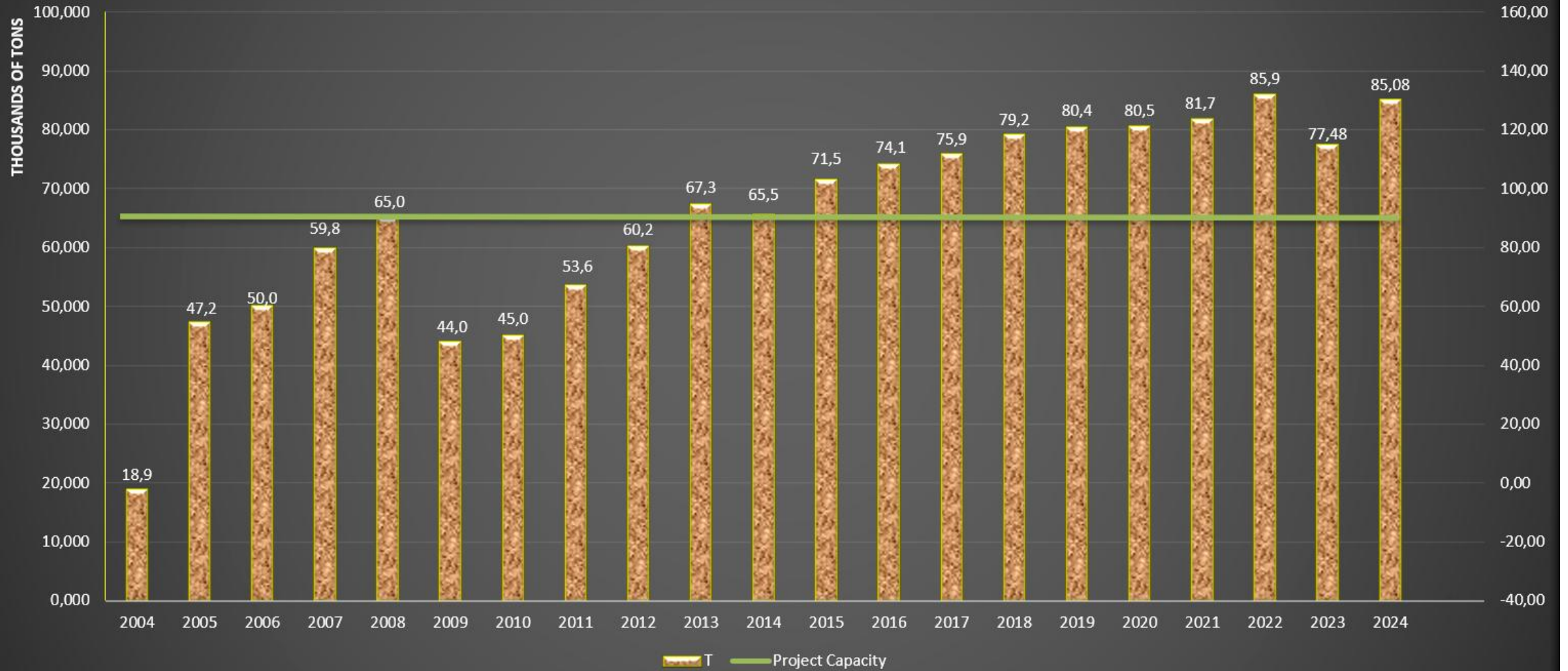
CUSTOMERS IN

80
COUNTRIES

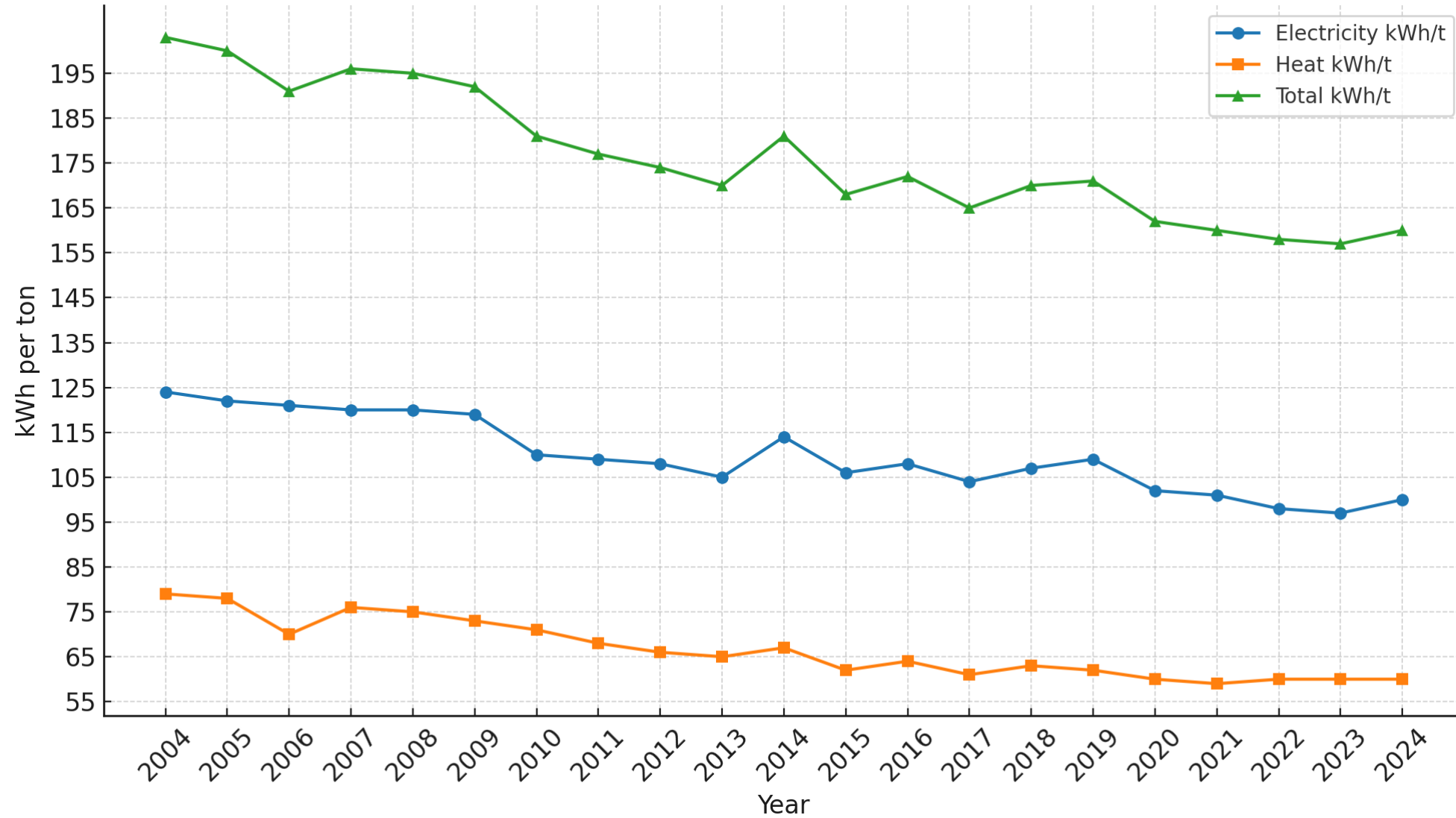
Malting



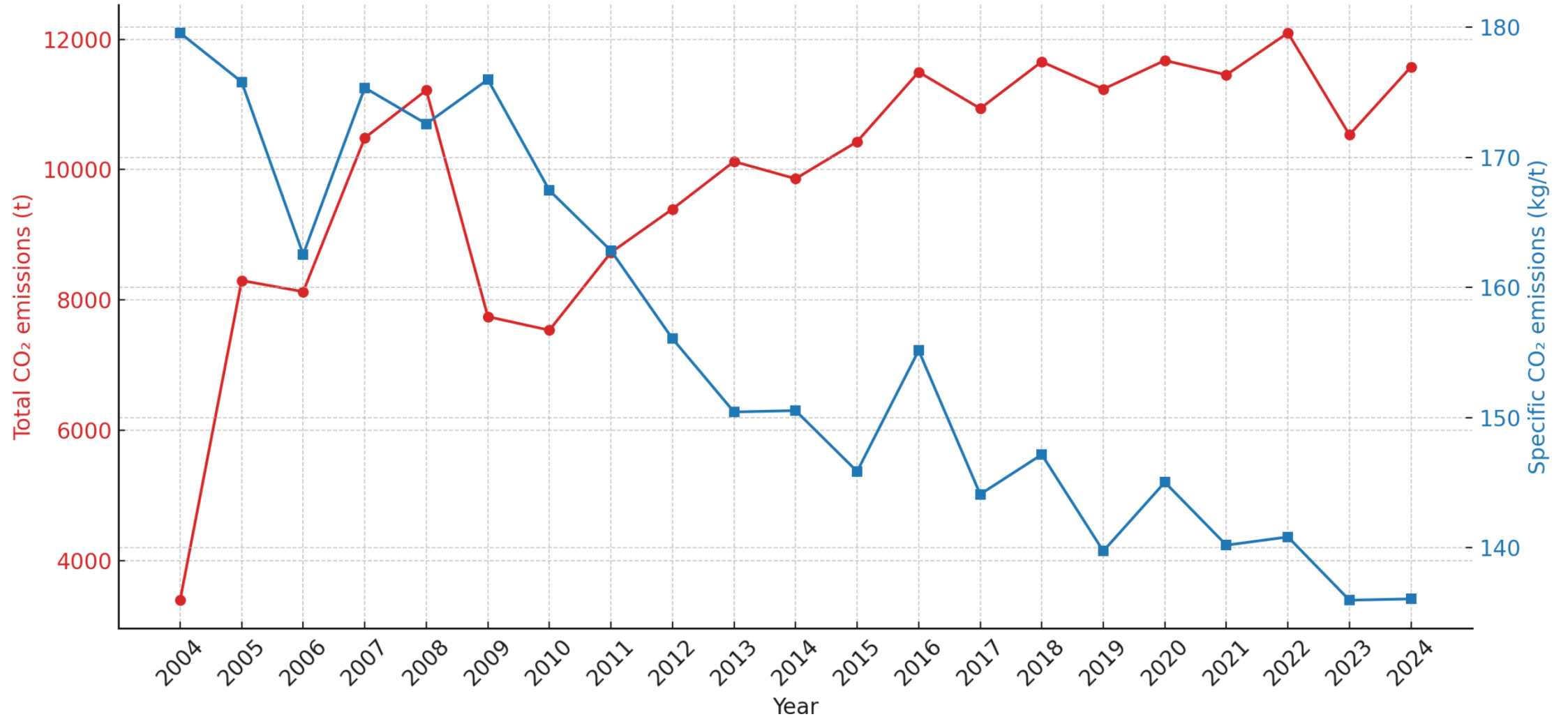
Malt production at Panevėžys Malt Factory, by year



Specific Energy Consumption per Ton of Malt (2004–2024)



CO₂ Emissions in Malt Production (2004-2024)





- **2011: Integration of smart data meters**
- **2012: Implementation of water fog cooling system for germination boxes**
- **2013: Increase in batch size**
- **2014: Optimization of steeping recipe (wet step)**
- **2015: Improved kiln loading recipe**
- **2016: Commissioning of 20-foot container loader**
- **2017: Setting moisture limit for green malt during kiln loading**
- **2018: Commissioning of grain sorting equipment „Cimbira“**
- **2019: Updated time settings for all transportation routes**



- **2020: Integration of digital twin system**
- **2021: Installation of 300 kWh solar power plant**
- **2022: Updated work plans for production workers**
- **2023: Modified malt storage method**
- **2024: Installation of artificial shading over germination boxes**
- **2025: Commissioning of „BoMill“ equipment**
- **2025: Planned replacement of gas burners in the kiln***
- **2026: Further automation and AI integration for smart process control***
- **2027: Expanding renewable energy use***



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Thank
you for your
attention!