Energy efficiency of milking parlours

energy breakdown

- Herringbone
  - Milking Machine: 35%
  - Milk Cooling: 27%
  - Water Heating: 22%
  - Other: 16%

- Rotary
  - Milking Machine: 19%
  - Milk Cooling: 40%
  - Water Heating: 29%
  - Other: 12%

Conclusions

- Rotary farms had lower energy costs (€8.99/1000 L<sub>Milk</sub>) than herringbone farms (€9.48/1000 L<sub>Milk</sub>)
- Herringbone farms with higher milking efficiency were 13% more energy efficient
- Rotary farms with higher milking efficiency were 62% more energy efficient

Take home messages

- Plate coolers, variable speed drives (VSD) and heat recovery can improve energy efficiency
- Improving milking efficiency also improves energy efficiency