

ICARE4FARMS PRESENTS



DAIRY FARMS IN IRELAND

PRESENTATION OF THE SECTOR

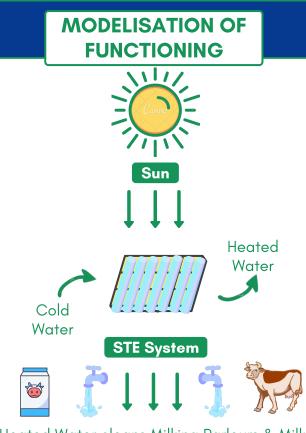
Distribution:

- Share of Total Production: • ???
- Livestock:
 - 18 000 farms in total
 - XX holdings with on-farm processing
 - 11 milk processing & 13 purchasing cooperatives selling dairy products
 - In average, 90 cows/farm

Total Herd (in 2019): 1.55 Millions

Milk Production (in 2019):

7.9 Billions of tons



Heated Water cleans Milking Parlours & Milk Storage + serves for milk transformation

ENERGY NEEDS

Average Energy Consumption:

- Total needs: 884kWh/year/cow (12% operating costs)
- *Cleaning:* 144–338 kWh/year/cow (?23?% of total consumption)
- *Milk Processing:* 254kWh/year /litre of milk
- Water Supply: 200-500 L/day

Potential for Solar Thermal Energy (STE)

Hot Water in Dairy farms:

- Daily needs & 2nd Electric Consumption
- Regular without depending on seasonality

Relevant Cases:

- Farm processing at least XX L milk/year (production of XX cows)
- Extra hot water requirements due to milk thermisation
- => 1L of hot water for 1L of milk

Example: Typical Irish Dairy Farm

- XX cows producing XX L/y
- XX L at X-XX° for cheese
- XX kWh/L Milk => XX kWh/y

Sources: Market Analysis I4F: www.nweurope.eu/icare4farms