

# ICCEE

Improving Cold Chain Energy Efficiency  
in food and beverage sector

THE PROJECT **ICCEE**, FUNDED BY THE EU PROGRAMME HORIZON 2020, AIMS AT **IMPROVING ENERGY EFFICIENCY IN THE COLD CHAIN OF THE FOOD & BEVERAGE SECTOR** AND MAKING IT EASIER FOR THE SECTOR:

TO UNDERTAKE ENERGY EFFICIENCY MEASURES ACROSS THE ENTIRE SUPPLY CHAIN

TO ACCELERATE THE IMPLEMENTATION OF ENERGY AUDIT RESULTS

ICCEE FOLLOWS A **HOLISTIC APPROACH** THAT MOVES FROM A SINGLE COMPANY PERSPECTIVE TO THE ASSESSMENT OF THE ENTIRE COLD SUPPLY CHAIN. EXISTING FINANCING SCHEMES FOR SMES WILL BE ASSESSED: THE OPTIMAL ONES WILL SUPPORT THE IMPLEMENTATION OF ENERGY EFFICIENCY MEASURES.

ICCEE OBJECTIVES BUILD ON 2 PILLARS:

DEVELOP AND APPLY AN ANALYTICAL ENERGY EFFICIENCY TOOL TO SUPPORT AND FACILITATE INVESTMENT DECISION-MAKING

A CAPACITY BUILDING PROGRAMME AND CREATING A COMMUNITY TO ACCELERATE CHANGE IN THE ENERGY CULTURE OF THE FOOD & BEVERAGE SECTOR

## WHY FOCUS ON THE COLD CHAINS OF THE SECTOR?

MANY STAGES (REFRIGERATED TRANSPORT, PROCESSING AND STORAGE) WITH LARGE ENERGY SAVING POTENTIAL

MANY LEVERS TO INCREASE UNDERSTANDING OF THIS POTENTIAL AND THE ECONOMIC ADVANTAGES THAT CAN BE OBTAINED FROM ENERGY SAVING MEASURES.

## WHAT'S THE PLAN?



ICCEE BUILDS ON A SERIES OF INTERRELATED ACTIVITIES, WHICH SERVE TO DEVELOP A TAILOR-MADE TOOL AND TRAINING COURSES FOR THE INCREASE OF SUPPLY CHAIN ENERGY EFFICIENCY IN THE FOOD AND BEVERAGE SECTOR.

SPECIFICALLY, THE ACTIVITIES OF THE PROJECT CONSIST OF:

VISIT [WWW.ICCEE.EU](http://WWW.ICCEE.EU)...

## MODEL DESIGN AND MONITORING



A MODEL THAT INCORPORATES THE ECONOMIC, TECHNICAL AND BEHAVIOURAL ASPECTS OF IMPROVING INDUSTRIAL ENERGY EFFICIENCY, AND SUBSEQUENTLY ITS OPTIMISATION COMPLEMENTED WITH ACTIVITIES TO MONITOR PROGRESS AT THE LEVEL OF COMPANIES AND THEIR SUPPLY CHAIN;

## TOOL DEVELOPMENT AND VALIDATION



A PRACTICAL TOOL FOR USERS THAT ASSISTS COMPANIES IN ESTIMATING THE POTENTIAL COST AND (ENERGY AND NON-ENERGY) BENEFITS OF IMPROVING THEIR ENERGY EFFICIENCY BY CONSIDERING THE EXISTING IMPLEMENTATION BARRIERS AND THAT ALLOWS USING BENCHMARKS FOR PERFORMANCE COMPARISONS. THE TOOL WILL BE VALIDATED BASED ON DATA COLLECTED FROM A SAMPLE OF REPRESENTATIVE USERS/COMPANIES AND THEIR SUPPLY CHAIN BELONGING TO COLD CHAINS IN THE FOOD AND BEVERAGE SECTOR;

## CAPACITY BUILDING



CAPACITY BUILDING THROUGH TRAINING ACTIVITIES THAT INTEGRATE THE USE AND OUTCOME OF THE APPLICATION TOOL, PILOT SEMINARS, GAMIFICATION, WORKSHOPS AND THE DEVELOPMENT AND TESTING OF AN E-LEARNING CONCEPT;

## SHARING AND EXPLOITING RESULTS



COMMUNICATION, DISSEMINATION AND EXPLOITATION ACTIVITIES TO REACH A WIDE AUDIENCE, SPREAD THE OUTCOMES OF THE PROJECT AND ENSURE THE PROJECT RESULTS SERVE THE MOST.

... AND DISCOVER HOW TO TAKE PART IN THE PROJECT!

## ICCEE CAPACITY BUILDING ACTIVITIES



JOIN EU-WIDE **TRAININGS** FROM SEPTEMBER 2020.  
TOPICS INCLUDE:

- ENERGY OUTLOOK IN THE FOOD AND BEVERAGE SECTOR
- ISO 50001 – ENERGY SYSTEM MANAGEMENT
- ENERGY PERFORMANCE INDICATORS (ENPIS)
- IPMVP – MEASUREMENT AND VERIFICATION PROTOCOL
- SUPPLY CHAIN MANAGEMENT AND INDUSTRIAL SYMBIOSIS
- ENERGY SAVING OPPORTUNITIES ON ALL THE PROCESS FROM RAW MATERIALS TO FINAL CUSTOMER
- FINANCIAL ANALYSES, FUNDING OPPORTUNITIES AND LIFE-CYCLE COST ANALYSIS
- NON-ENERGY BENEFITS AND BEHAVIOURAL ASPECTS OF ENERGY EFFICIENCY
- INTRODUCTION TO THE ICCEE TOOL

ACCESS OUR **FREE E-LEARNING MODULE**, INCLUDING ABOVE TOPICS AND OUR **TOOL**

PARTICIPATE IN **CASE STUDIES**

JOIN OUR **INDUSTRY INFORMATIVE NETWORK (IIN)**, A PLATFORM TO:

- BRIDGE THE GAP BETWEEN DEMAND AND SUPPLY SIDES
- INCREASE THE ENERGY CULTURE OF INDUSTRIAL COMPANIES, WAREHOUSES, COLD STORAGE AND LOGISTIC OPERATORS,
- CREATE THE OPPORTUNITY TO IMPROVE THEIR CORE BUSINESS BY REVISING THEIR OPERATIONS,
- INCREASE THE AWARENESS TOWARDS ENERGY EFFICIENCY AND SUSTAINABLE SUPPLY-CHAIN INITIATIVES AT EVERY ORGANIZATIONAL LEVEL.

**FIND OUT MORE AT [WWW.ICCEE.EU](http://WWW.ICCEE.EU)**

## FOCUS ON THE ICCEE TOOL



WILL ALLOW USERS TO **ESTIMATE THE ENVIRONMENTAL AND EFFICIENCY PERFORMANCES OF A SPECIFIC SUPPLY CHAIN AND ITS ACTORS AS WELL AS DELIVER THE ENVIRONMENTAL ECO-PROFILES OF THE LOGISTICS ACTIVITIES** WITHIN A SELECTED SUPPLY CHAIN SYSTEM.

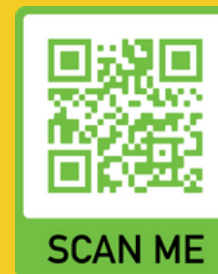


CAN BE USED FOR **ENERGY FLOWS AND LIFE CYCLE IMPACTS**.

### USERS WILL BE ABLE TO:



ICCEE (2019-2022) is coordinated by the University of Brescia with 12 partners, from 9 countries, who will create impact across the entire EU.



iccee\_h2020



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