FINLAND FUTURES
RESEARCH CENTRE

ENERGY DEMAND ESTIMATION EXERCISE

DEVELOPMENT OF ENERGY EDUCATION IN THE MEKONG REGION (DEEM) THIRD TRAINING

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OBJECTIVES

- ✓ LEARN TO ESTIMATE ENERGY DEMAND OF VILLAGES
- ✓ UNDERSTAND DAILY DEMAND PROFILES AND LOAD CURVE FOR A VILLAGE
- ✓ LEARN TO CONSTRUCT FUTURE ENERGY DEMAND ESTIMATIONS
- ✓ LEARNING BY DOING ON CASE STUDIES
- ✓ OPTIMISING POWER SYSTEM WITH THE HELP OF HOMER (NEXT TRAINING)

2 CASES:

FISHVILLE
REMOTEVILLE

TASK 1- DETERMINE THE MOST COMMON ELECTRIC APPLIANCES RELEVANT TO YOUR CASE EXAMPLE

TASK 2- ESTIMATE ELECTRICITY CONSUMPTION OF APPLIANCES & HOW MANY HOURS PER DAY THEY ARE USED

TASK 3- DETERMINE WHEN APPLIANCES ARE USED TO CREATE A DAILY DEMAND PROFILE AND A LOAD CURVE

TASK 4- FUTURE ENERGY DEMAND ESTIMATION

TASK 5 - BASED ON CURRENT SITUATION AND THE LOAD CURVE, ESTIMATE POTENTIAL OPTIONS FOR POWER SYSTEM CONFIGURATION


QUESTIONS,
COMMENTS?

TASK 6 – PRESENT YOUR CASE & EXPLAIN HOW THE TEAM REACHED TO THE RESULTS TO THE REST OF THE AUDIENCE

TASK 7- INPUT THE INFORMATION TO HOMER TO OPTIMISE THE POWER SYSTEM FOR YOUR CASE

Turun yliopisto
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Thank you

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