

# BSAM-Baltic Smart Asset Management

Purpose and output  
by William Hogland

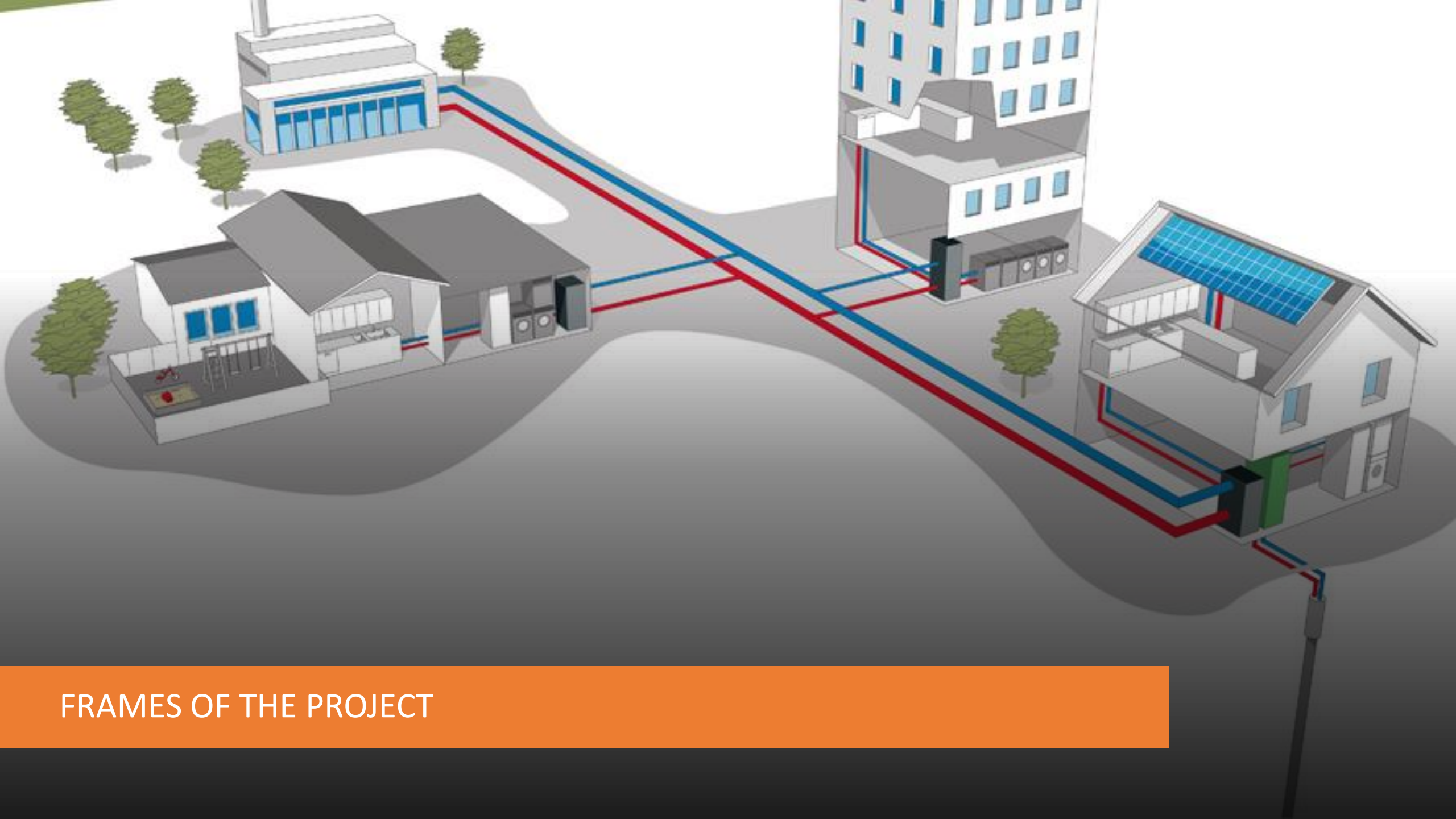


*Kalmar, Sweden*

# *Baltic Smart Asset Management*

## OBJECTIVE

BSAM will raise **Cross-boarder awareness** of **preventive data driven maintenance** methods for Energy Companies standard **educational purposes** for **CO<sub>2</sub> decrease and increase energy efficiency**



FRAMES OF THE PROJECT





# POWER PLANT

- Out and Inlet

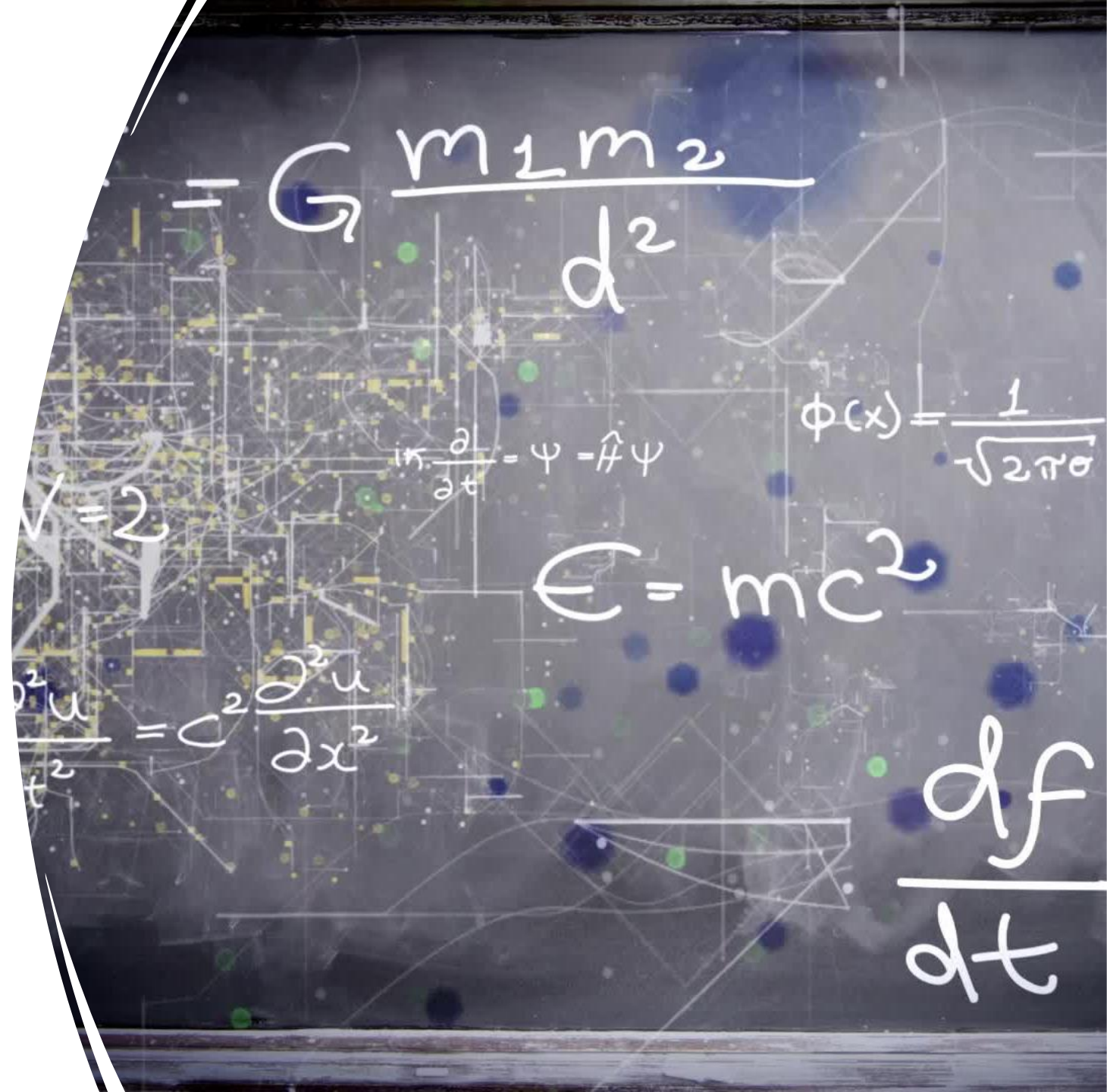




# Corrosion and Gasification Problems

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- Understand the system fluid's importance and challenges in future District Heating system, DH4 and DH5
- QTF, Richard Bremer and Björn Carlsson powerpoint in the training module







Storage of Fuels





Storage  
Fire



# HEAT TRANSFER FLUIDS

## ULTRA-LOW TEMPERATURE FLUIDS

the lowest operating temperature below  $-50^{\circ}\text{C}$

## HIGH TEMPERATURE FLUIDS

the highest operating temperature from  $+200^{\circ}\text{C}$  to  $+400^{\circ}\text{C}$

## LOW TEMPERATURE FLUIDS

the lowest operating temperature from  $-50^{\circ}\text{C}$  to  $0^{\circ}\text{C}$

## ULTRA-HIGH TEMPERATURE FLUIDS

the highest operating temperature above  $+400^{\circ}\text{C}$



# Heat Transfer Pipe System



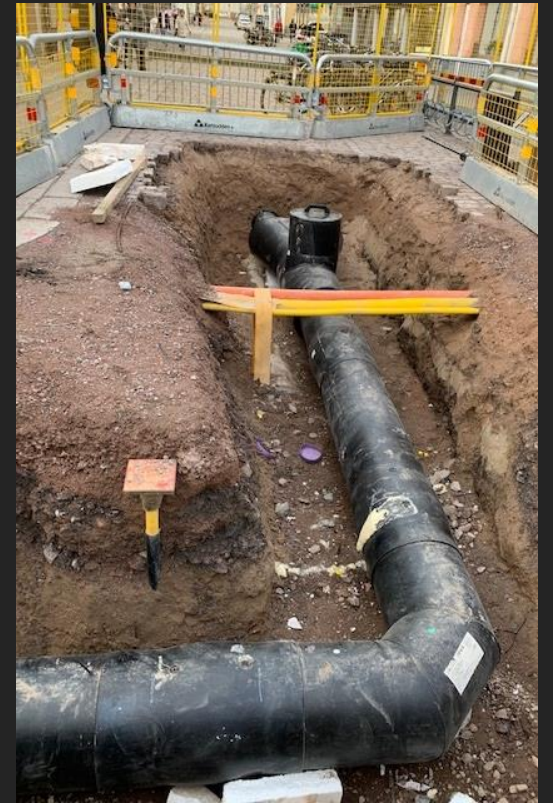




# Distribution Net

Villa Area

# Distribution Net in the City Center





# Pipe Installation in Culture Areas





Installed  
S.A.B System  
in Sweden



# Control System









# Polish System









- Laboratory tests



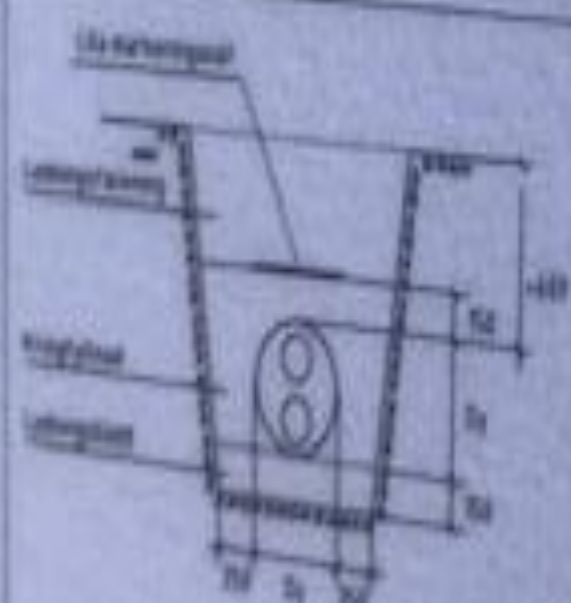
Other  
Methods?



KLADREGLAR

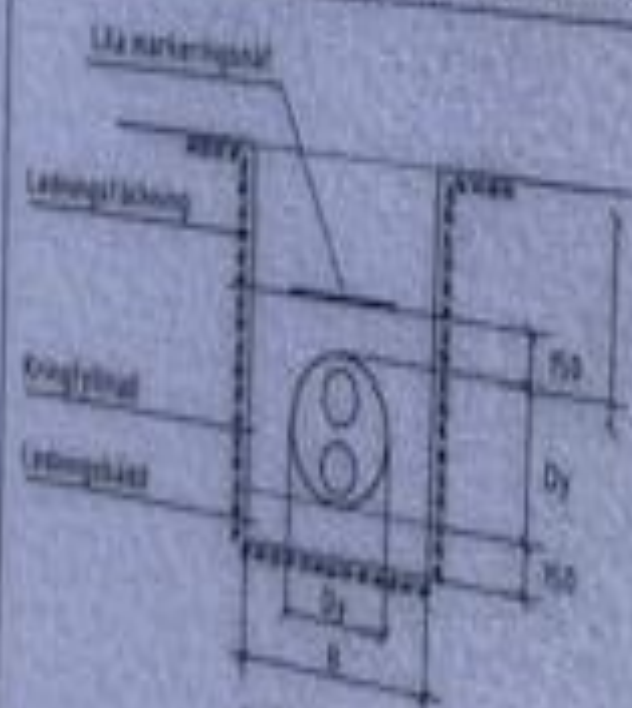
-  80 FJÄRRVÄRMELEDNING
-  80 FJÄRRVÄRMELEDNING
-  80 VA-LEDNINGAR
-  80 SPIS & TELL
-  80 EL
-  UMSÄTTARST LAGE FÖRÅG

SKICKT VED BÖJAR OCH T-STYCKER



Se Lagningens utförandeguide

SKICKT VED RÄRSTRÄCKOR OCH SERVISLEDNINGAR



Dy (mm)  
 ≤ 150 300  
 > 150 400

ÖVRIG INFO

Samtliga servisedningar CU-Flex TWIN DN18  
 STÅL/KOPPAR-övergångar monteras vid T-st  
 (U-Flex skall förläggas med sinusform enligt  
 rörtillverkarens instruktion  
 Se Ritn. 2022 003 300

2022 003 300



Leackage



# Colored Water





# Tracing Leakage







Speakers









## • Meetings

- **The Training Module**





## Result

BSAM will **increase** the usage of **green technologies** to **lower CO<sub>2</sub> emissions** and **increase energy efficiency** and **set a standard** where **installations** can be **showcases** and **cross-border knowledge exchange** together with a **practical handbook** are promoted.



**Lnu.se**