



TIPCHECK Training Programme

TBI-Tutorial



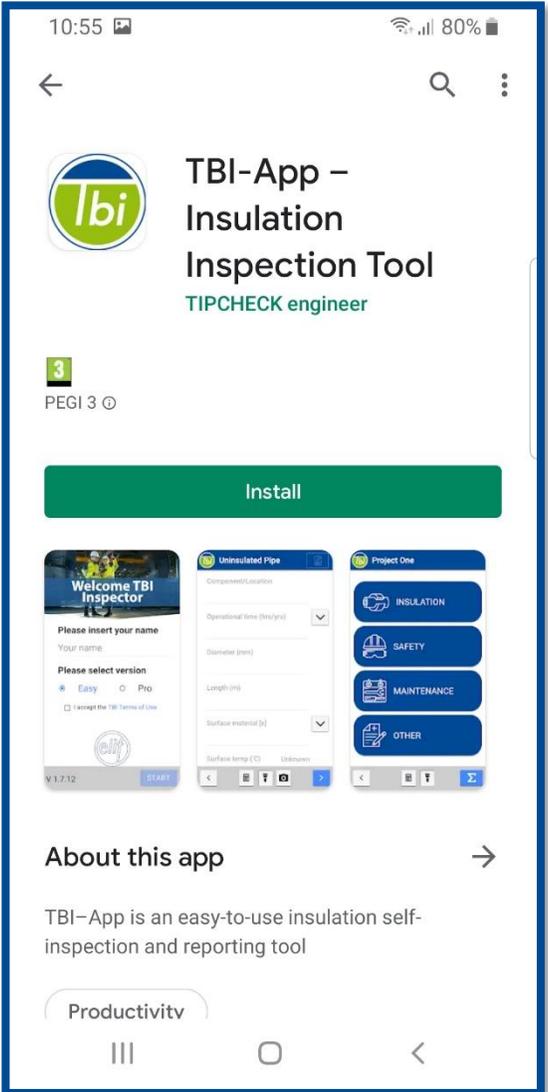
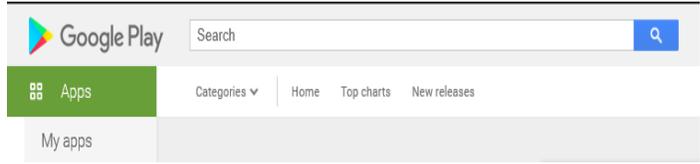
A Small Investment Offering Great Potential

THE DIFFERENT TBI-Tools AND OPTIONS

FOR FREE	FOR GUESTS	FOR MEMBERS
<p>TBI-App EASY (For FREE)</p> <p>The EASY option is the best for anyone</p> <ul style="list-style-type: none"> • Who wants to test the App • Who only from time to time wants to inspect the insulation performance of single components <p>Download the TBI-App EASY from:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>(Requires iOS 11 up)</p> </div> <div style="text-align: center;">  <p>(Requires Android 7 up)</p> </div> </div>	<p>TBI-App Pro 380 €/year unlimited projects & reporting</p> <p>TBI-Admin 190 €/year administer and back up projects & create TBI-Reports</p> <p><u>PACKAGES:</u></p> <p>TBI-Expert 520 €/year 1 Pro + 1 Admin licence</p> <p>TBI-Power 850 €/year 2 Pro + 1 Admin licence</p> <p style="text-align: center;">SELECT & ORDER</p>	<p>TBI-App Pro 200 €/year unlimited projects & reporting</p> <p>TBI-Admin 100 €/year administer and back up projects & create TBI-Reports</p> <p><u>PACKAGES:</u></p> <p>TBI-Expert 250 €/year 1 Pro + 1 Admin licence</p> <p>TBI-Power 400 €/year 2 Pro + 1 Admin licence</p> <p style="text-align: center;">SELECT & ORDER</p>

Download and Install the TBI-App on Your Device (Android Example)

Search for "TBI"



Start the TBI-App -> Insert Your Name -> Accept the ToU -> START

Insert your name

Accept the Terms of Use

Click on START

Welcome TBI Inspector

Please insert:
Henry Insulator

Please select version
 Easy Pro

I accept the TBI Terms of Use



START

Define Your First TBI Project

Give your project a name:

- This name will also be used as the file name for your TBI-Report (PDF).

✓ *You will be able to generate the PDF directly from your mobile device.*

Insert the following project variables you need to use for this project:

1. **Energy**
2. **Units**
3. **Fuel (to calculate the CO₂ emissions)**

✓ *You will be able to change the energy price of the project (and/or the units and/or the fuel) at any time and all calculations will automatically be adjusted.*

lbi Edit project

PROPERTIES FILES

Name
TBI-Report Example 4.10

Currency
EUR (€)

Energy price
0.03

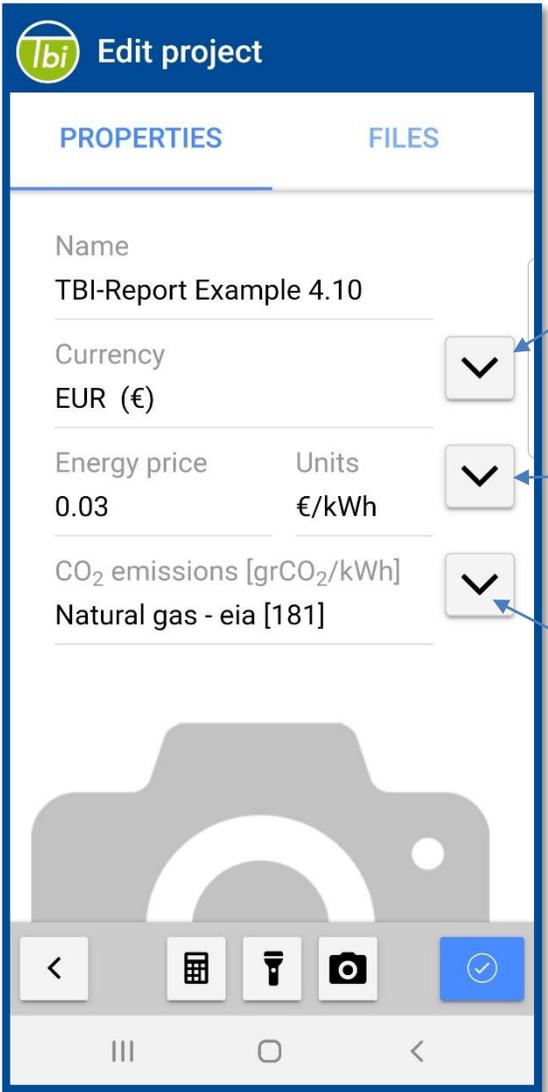
Units
€/kWh

CO₂ emissions [grCO₂/kWh]
Natural gas - eia [181]

Camera icon

Navigation bar: < | Calculator | Flashlight | Camera | Checkmark

Define Your First TBI Project

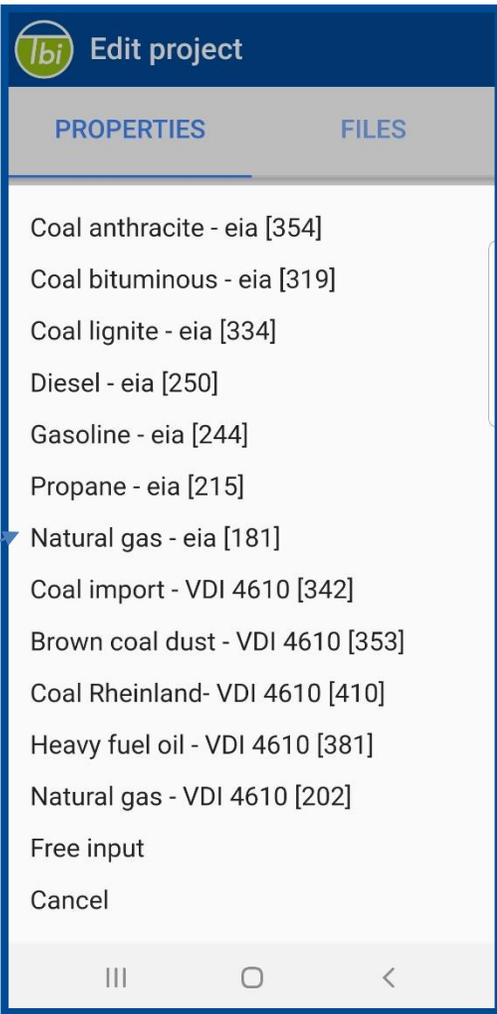
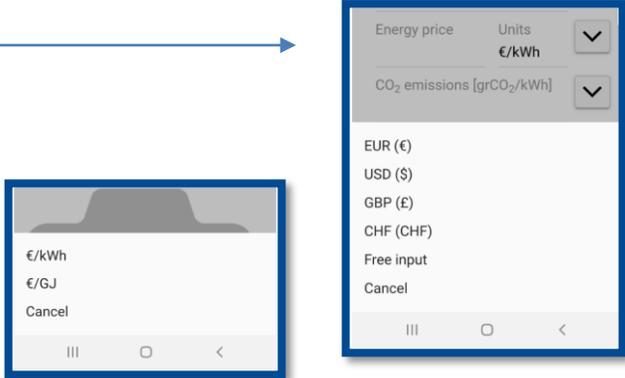


By clicking on the drop down menu buttons you can choose and change the

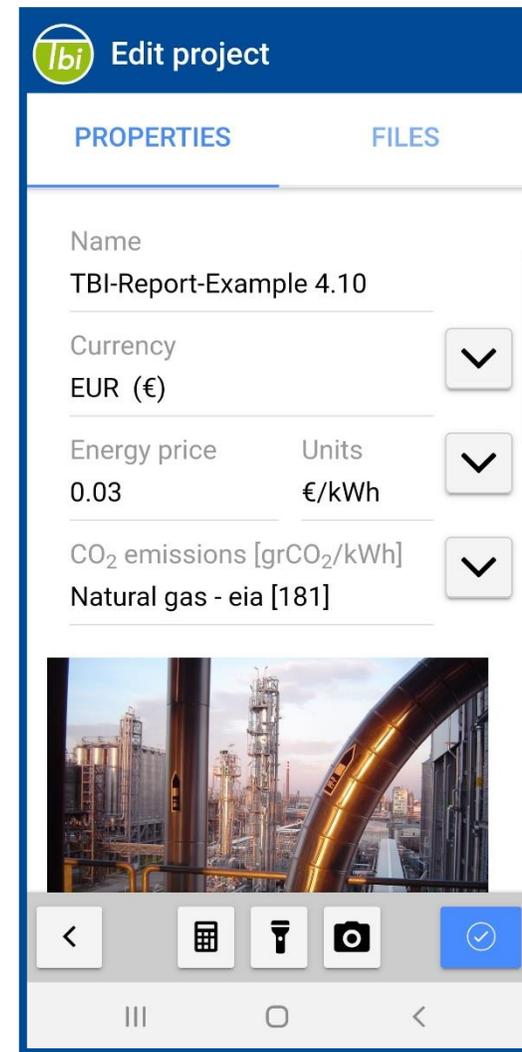
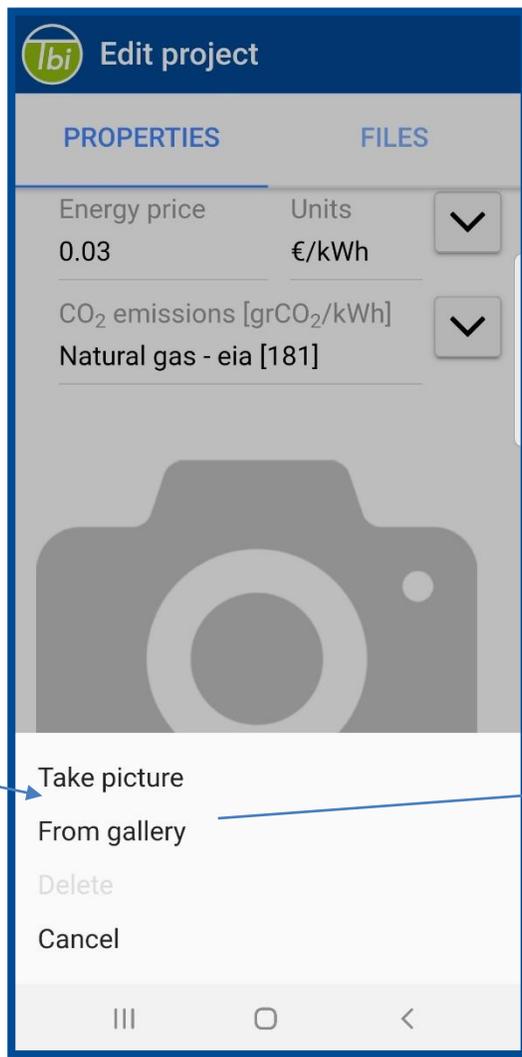
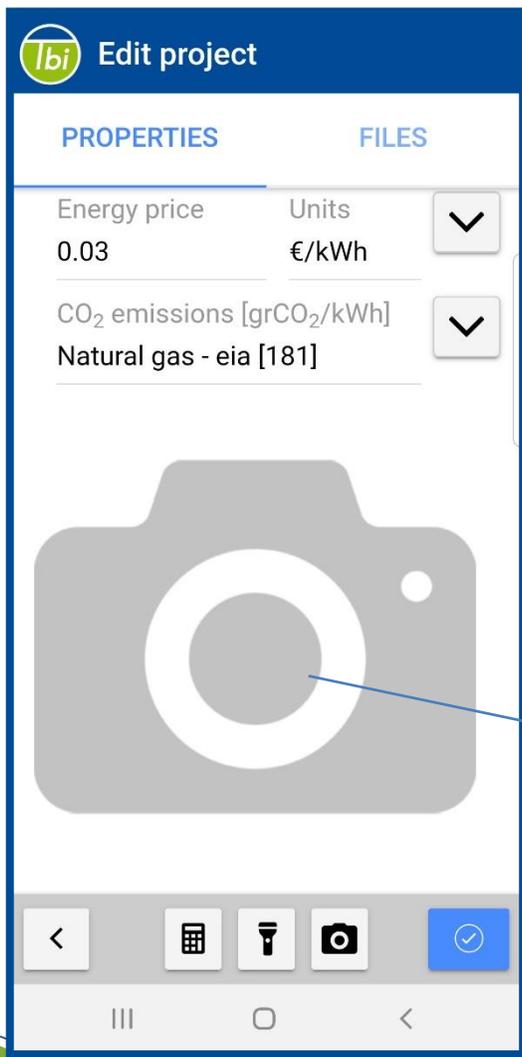
Currency

Units

Fuel to calculate the CO₂ emissions



Take or Choose a Picture for Your TBI Project



Insert Contacts and Save Your Project

lbi Edit project

PROPERTIES FILES

CO₂ emissions [grCO₂/kWh]
Natural gas - eia [181]



Project Leader
Luis López Brunner
luis.lopez@eiif.org

lbi Edit project

PROPERTIES FILES

Project Leader
Luis López Brunner
luis.lopez@eiif.org
+41 22 99 500 70

Energy Manager
Minna Skagen
minna.skagen@eiif.org
+41 22 99 500 70

By clicking on the Save button you save your project and add it to your Project list.

lbi Project list

- TBI-Report-Example 4.10
Energy price: 0.03 €/kWh
CO₂ emissions: 181 grCO₂/kWh

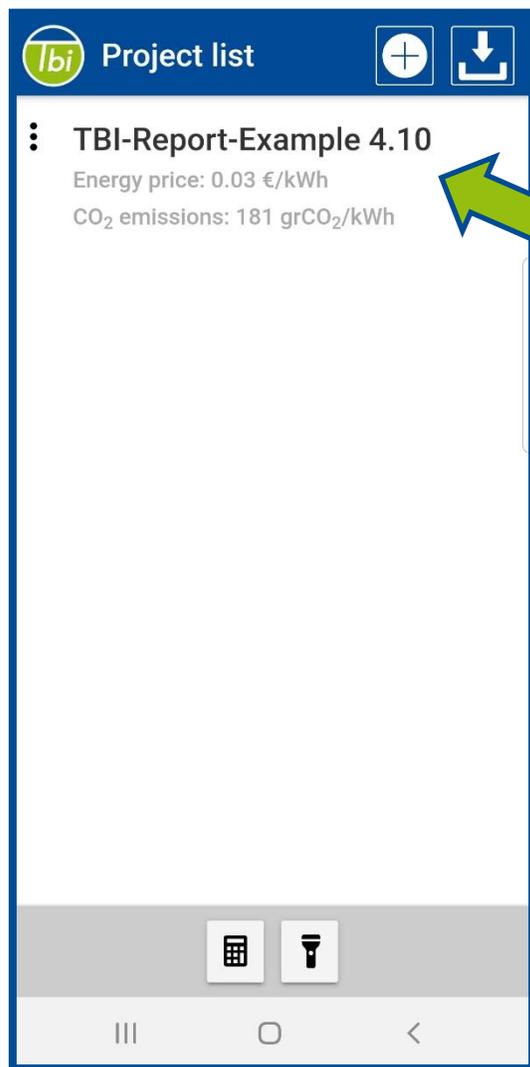
Estimate Your First Component

1st Component:

- Component/Location: Pipe 1 / outside
- Operational time (hrs/yrs): 8760 hours (full year)
- Diameter (mm): 610
- Length (m): 3
- Surface material [ϵ]: Corroded [0.80]
- Surface temperature ($^{\circ}\text{C}$): 250
- Ambient temperature ($^{\circ}\text{C}$): 15



Estimate Your First Component



Click on the project and choose what kind of reporting you want to do:



Estimate Your First Component

Tbi NEEC

- INSULATION
- SAFETY
- MAINTENANCE
- OTHER

< [Calculator] [Lightbulb] [Σ]



Tbi NEEC

- UNINSULATED
- INSULATED
- COLD INSULATION

< [Calculator] [Lightbulb]

Tbi NEEC

- PIPE
- VALVE
- FLANGE
- m² SURFACE

< [Calculator] [Lightbulb]



Insert Your First Component

1st Component:

- Component/Location:
Pipe 1 / outside
- Operational time (hrs/yrs):
8760 hours (full year)
- Diameter (mm):
610
- Length (m):
3
- Surface material [ε]:
Corroded [0.80]
- Surface temperature (°C):
250
- Ambient temperature (°C):
15

Tbi Uninsulated Pipe

Component/Location
Pipe 1 / outside

Operational time (hrs/yrs)
8760 hours (full year)

Diameter (mm)
610

Length (m)
3

Surface material [ε]
Corroded [0.80]

Surface temp (°C) Unknown
250



Complete Your First Component by Taking a Picture

Tbi Uninsulated Pipe 

Length (m)
3

Surface material [ε] 
Corroded [0.80]

Surface temp (°C) Unknown
250

Ambient temperature (°C)
15









Click to See Results of Your First Component

Tbi Uninsulated Pipe

Length (m)
3

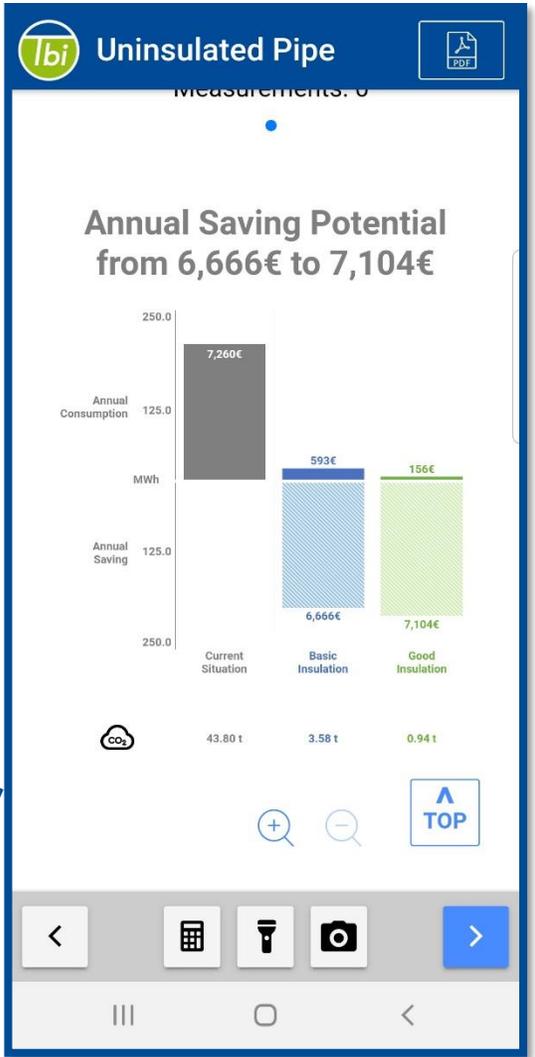
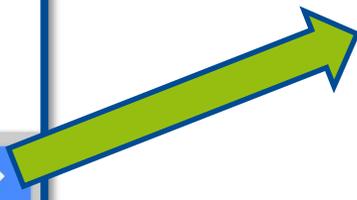
Surface material [ε]
Corroded [0.80]

Surface temp (°C) Unknown
250

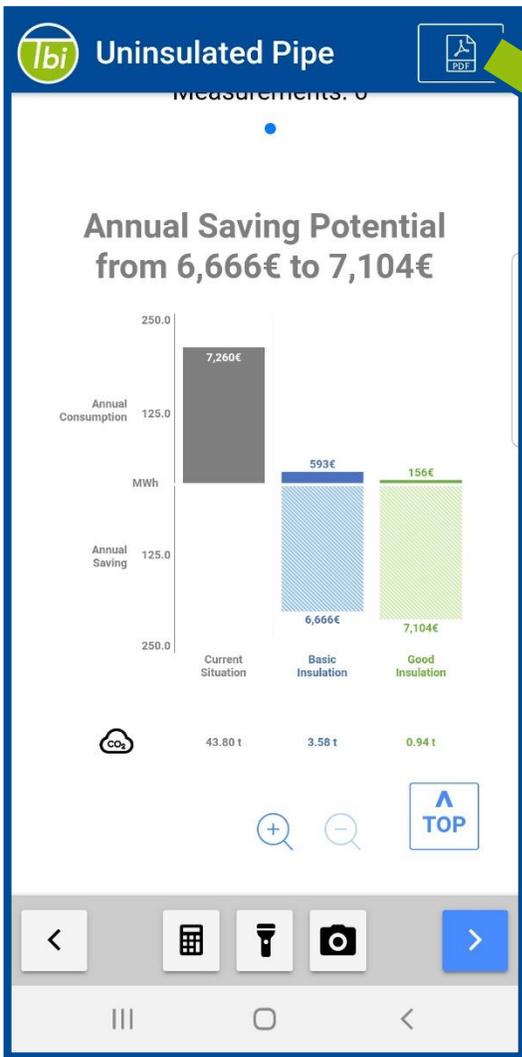
Ambient temperature (°C)
15



Navigation icons: < | Calculator | Flashlight | Camera | >



The PDF for One Component



← Click on the PDF Icon to create the component PDF





The PDF

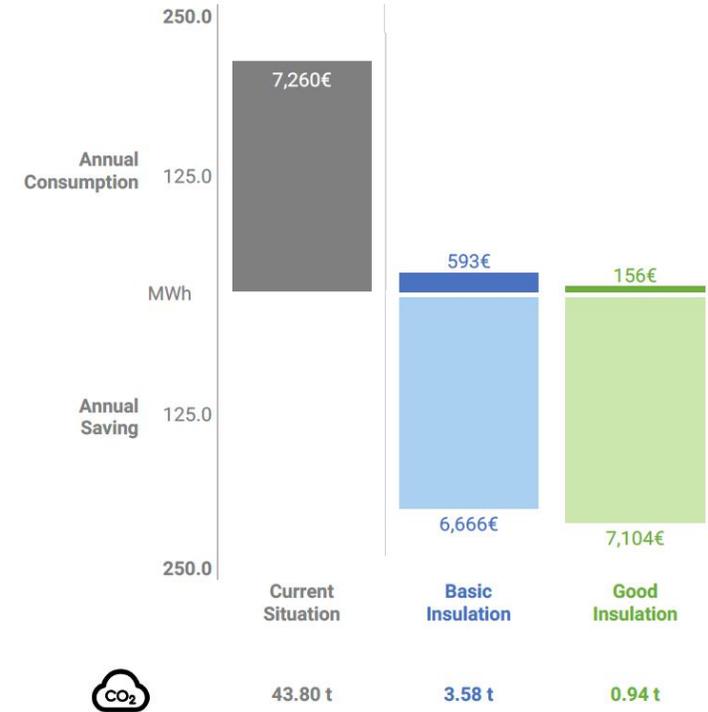
Pipe 1 / outside: Uninsulated pipe

Project TBI-Report-Example 4.10
Energy pricee (€/kWh) 0.03
Diameter (mm) 610
Operational time 8760
Surface temperature (°C) 250

Component/Location Pipe 1 / outside
CO ₂ emission factor (grCO ₂ /kWh) 181
Length (m) 3
Surface material General value [0.80]
Ambient temperature (°C) 15



Annual Saving Potential from 6,666€ to 7,104€



Disclaimer: You should not rely solely on the TBI software application(s) for determining the performance of an insulation system and/or the energy or cost saving potential. The TBI software applications allow you to quickly check the performance of an insulation system and can only give rough energy or cost saving potential, due to the influence of a number of factors, including data/input provided by the user. The TBI software applications are not meant to replace professional advice. Under no circumstances will EiiF and/or any EiiF member authorized to use the member version of the TBI software application be liable for damages occurring to persons and/or properties of any nature and/or any other damages or losses arising out of the use of the TBI software application(s) or any information or service obtained through it (them), including direct, indirect, consequential or incidental damages and losses.



What Do You Want to Do Next?

Summary

Energy & CO2 analysis per year

Component Location	Units	Current Losses & Emissions	Potential savings
Pipe 1	MWh	241.99	222.21 - 236.7
: 1 / outside	€	7,260	6,666 - 7,104
	tn CO ₂	43.80	40.22 - 42.86
Value 1	MWh	39.85	36.17 - 38.65

The component Pipe 1 / outside has been saved by Henry Insulator

What do you want to do next?

- Continue
- Project list
- New project
- Change user
- Cancel

NEEC

- INSULATION
- SAFETY
- MAINTENANCE
- OTHER

Project list

TBI-Report-Example 4.10

Energy price: 0.03 €/kWh

CO₂ emissions: 181 grCO₂/kWh

Edit project

PROPERTIES FILES

Name: New Project

Currency: EUR (€)

Energy price: Units €/kWh

CO₂ emissions [grCO₂/kWh]

Welcome TBI Inspector

Please insert: Change User

I accept the TBI Terms of Use

This will be your LOGO

START



Create Your TBI-Report

Tbi Summary

Component Location	Units	Current Losses & Emissions	Potential
: 1 Pipe 1 / outside	MWh	241.99	222.21
	€	7,260	6,666
	tn CO ₂	43.80	40.22
: 2 Pipe 1.2 / Hall 1	MWh	1,560.93	1,428.10
	€	46,828	42,843
	tn CO ₂	282.53	258.49
: 3 Valve 1 / outside	MWh	46.09	42.12
	€	1,383	1,264
	tn CO ₂	8.34	7.62
: 4 Flanges 1 / Hall 1	MWh	13.93	12.67
	€	418	380
	tn CO ₂	2.52	2.29
: 5 Wall Tank 1 / outside	MWh	620.57	329.85
	€	18,617	9,895
	tn CO ₂	112.32	59.70
: 6 Wall Tank 2 / outside	MWh	1,652.57	1,071.13
	€	49,577	32,134

← Click on the PDF Icon to create the component PDF with your own corporate logo and contact details

Tbi

TBI-Report

Project:

TBI-Report-Example 4.10

Your TBI contact:
 EiiF Example
 Henry Insulator

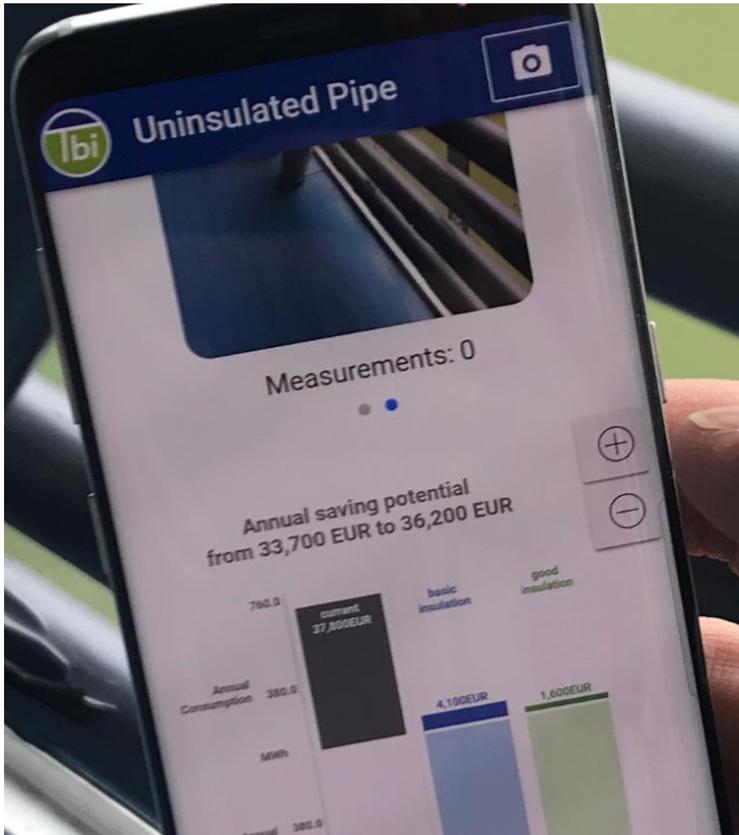
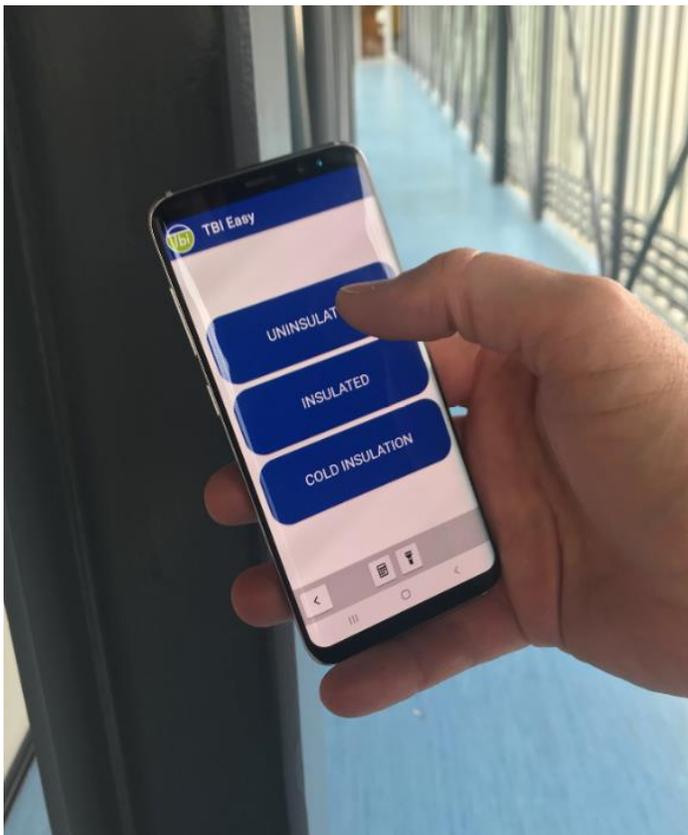
+41 22 99 500 70
henry.insulator@eif.org
www.eif.org/tbi

This will be your LOGO

This Report was produced using the TBI-App developed by EiiF: www.eif.org



Enjoy Using the TBI-App



Contact

European Industrial Insulation Foundation

Avenue du Mont-Blanc 33
1196 Gland (Geneva)
Switzerland

T: +41 22 995 00 - 70

F: +41 22 995 00 - 71

E: tbi@eif.org

www.eif.org

