



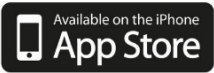

TIPCHECK Training Programme

TBI-Tutorial



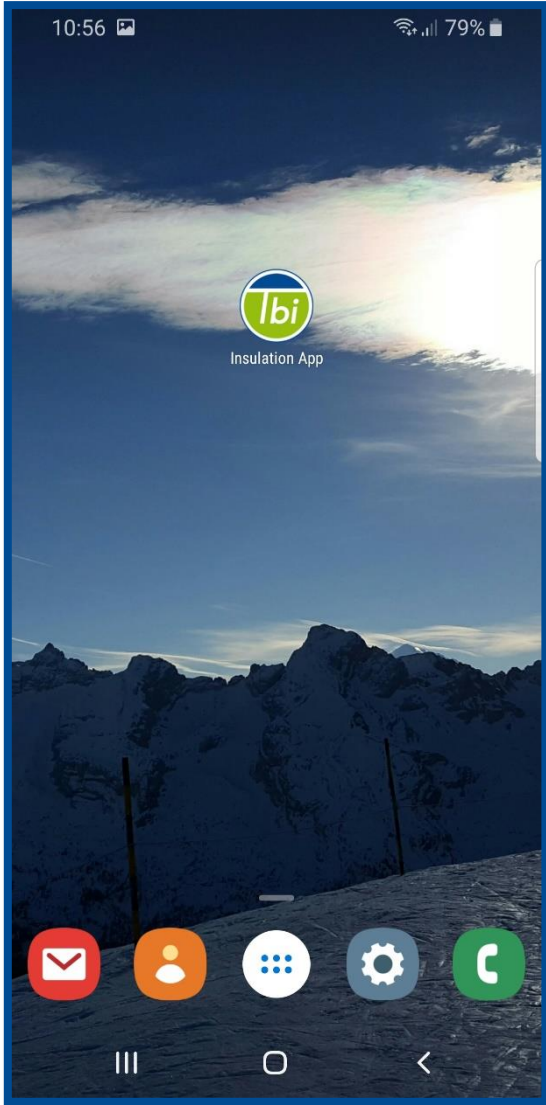
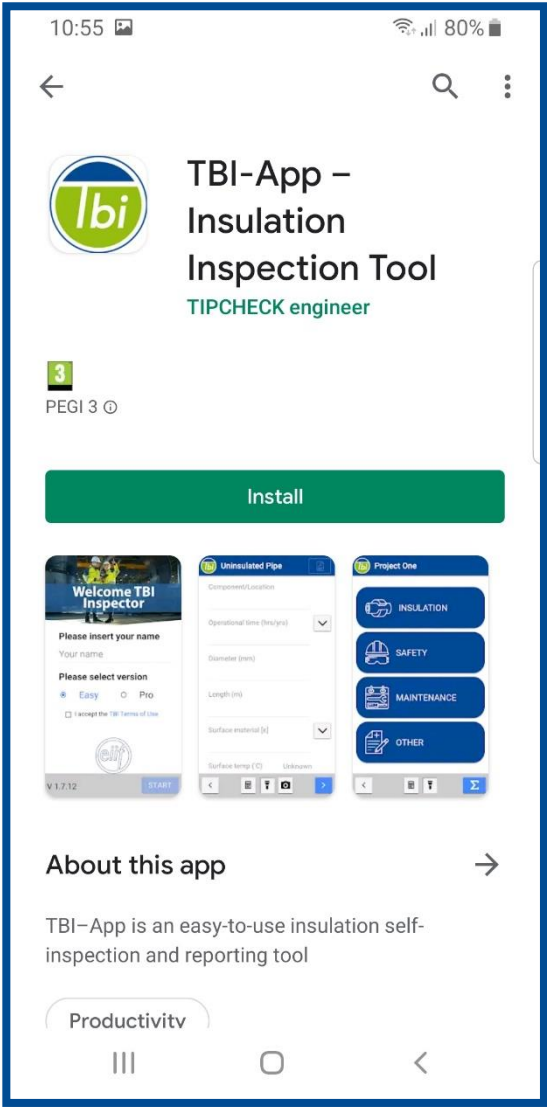
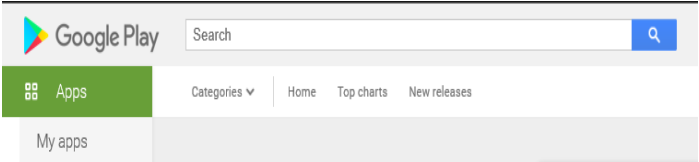
A Small Investment Offering Great Potential

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>   </div> <p>(Requires iOS 11 up) (Requires Android 7 up)</p>	<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>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>SELECT & ORDER</p>

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

Search for “TBI”

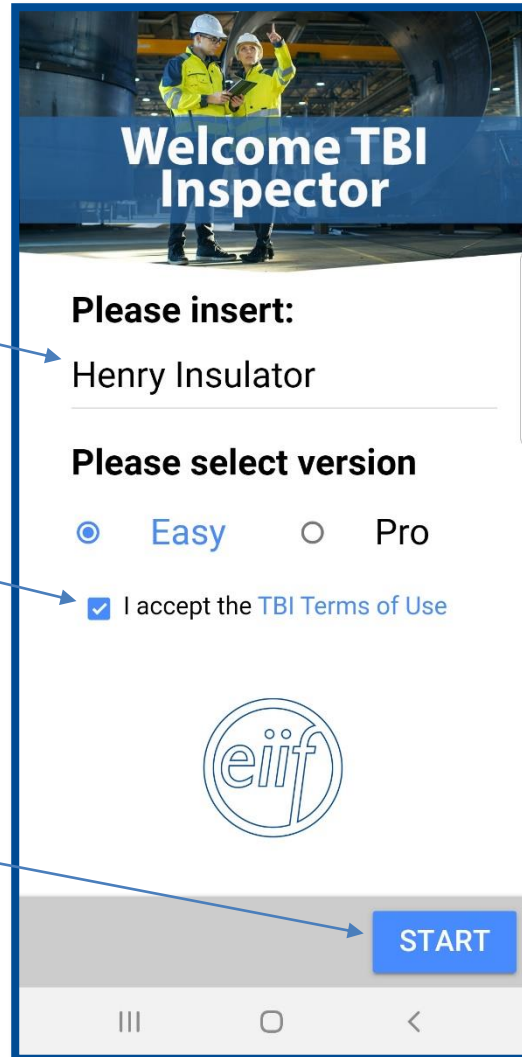


Start the TBI-App -> Insert Your Name -> Accept the ToU -> START

Insert your name

Accept the Terms of Use

Click on START



The screenshot shows the TBI-App interface. At the top, there is a header image of two workers in a factory setting with the text "Welcome TBI Inspector". Below this, the app prompts the user to "Please insert:" a name, with "Henry Insulator" entered in the text field. It then asks the user to "Please select version" with two radio button options: "Easy" (selected) and "Pro". Below the version selection, there is a checkbox labeled "I accept the TBI Terms of Use", which is checked. At the bottom of the screen, there is a large blue "START" button. The app is framed by a blue border, and the bottom of the screen shows a mobile OS navigation bar with three icons: a square, a circle, and a triangle.

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.

Tbi 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

 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]


▼




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|||

○

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

Currency

Units

Fuel to calculate the CO₂ emissions

Energy price

Units

▼

CO₂ emissions [grCO₂/kWh]

▼

EUR (€)

USD (\$)

GBP (£)

CHF (CHF)

Free input

Cancel

|||

○

<

€/kWh


€/GJ

Cancel

|||

○

<

 Edit project

PROPERTIES

FILES

Coal anthracite - eia [354]

Coal bituminous - eia [319]

Coal lignite - eia [334]

Diesel - eia [250]

Gasoline - eia [244]

Propane - eia [215]

Natural gas - eia [181]

Coal import - VDI 4610 [342]

Brown coal dust - VDI 4610 [353]

Coal Rheinland- VDI 4610 [410]

Heavy fuel oil - VDI 4610 [381]

Natural gas - VDI 4610 [202]

Free input

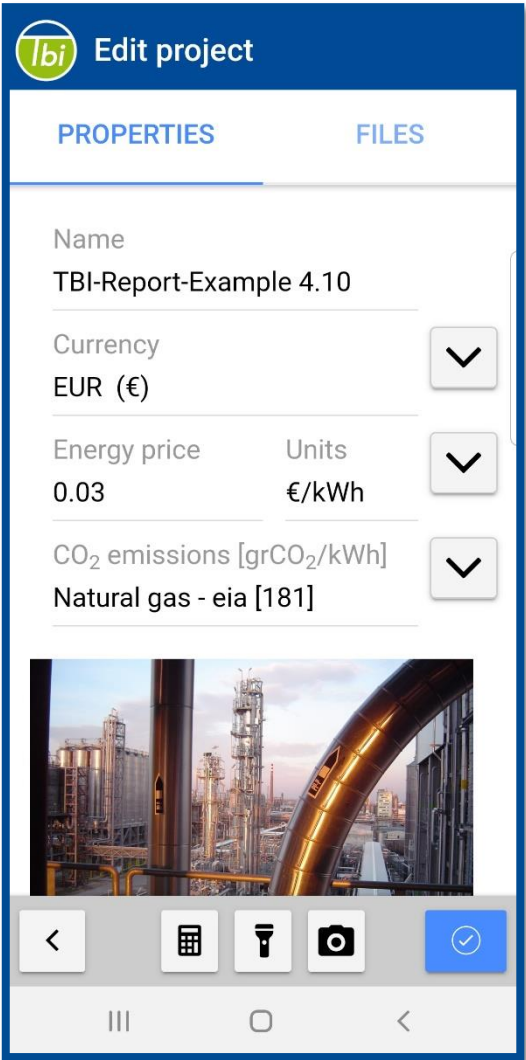
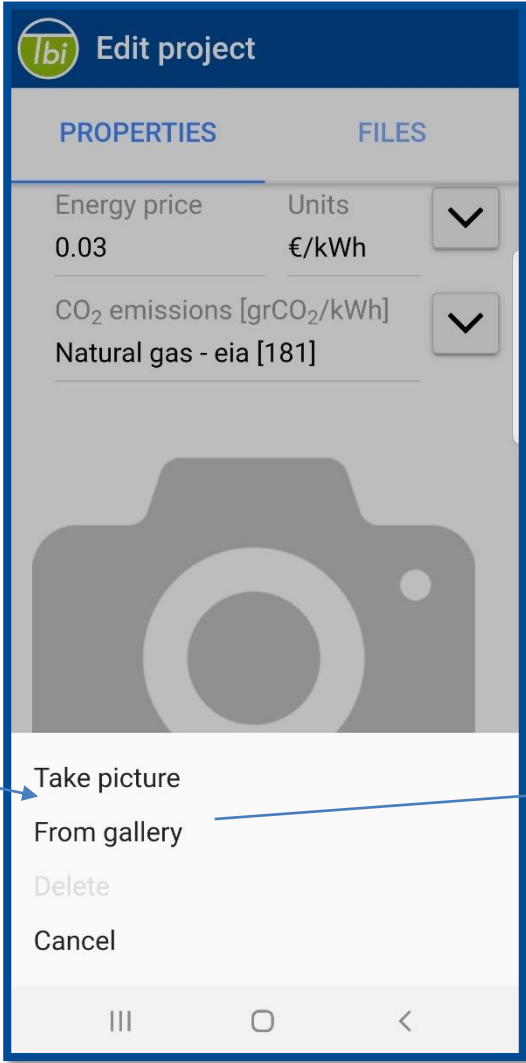
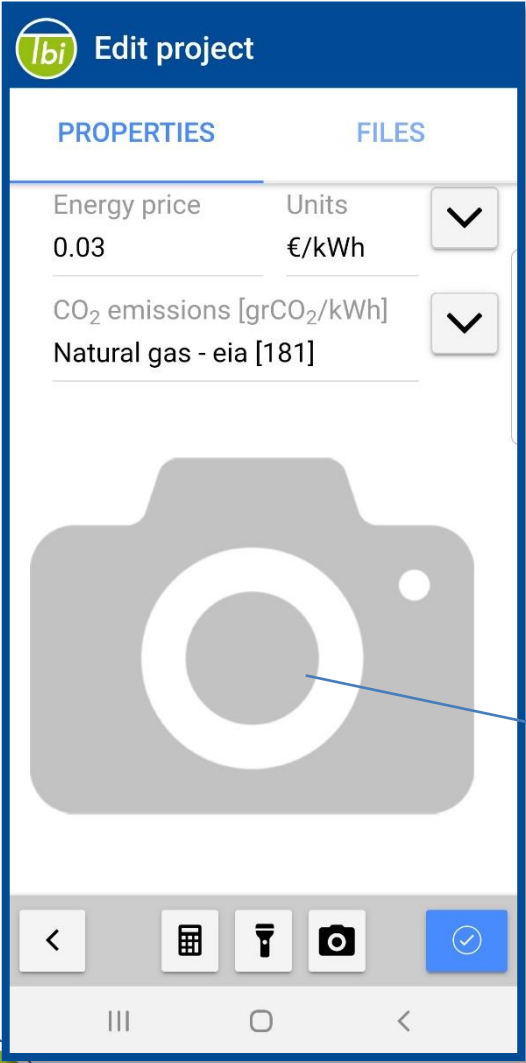
Cancel

|||

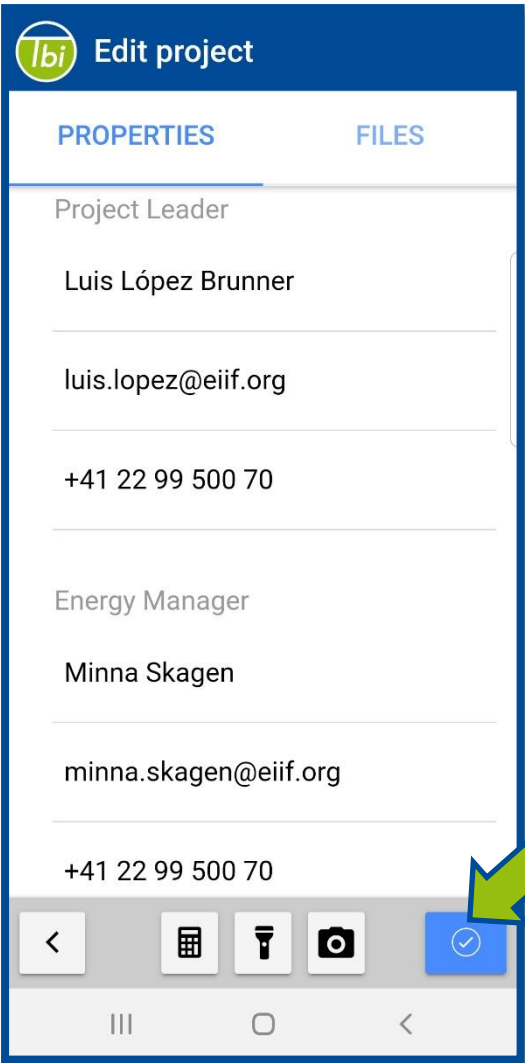
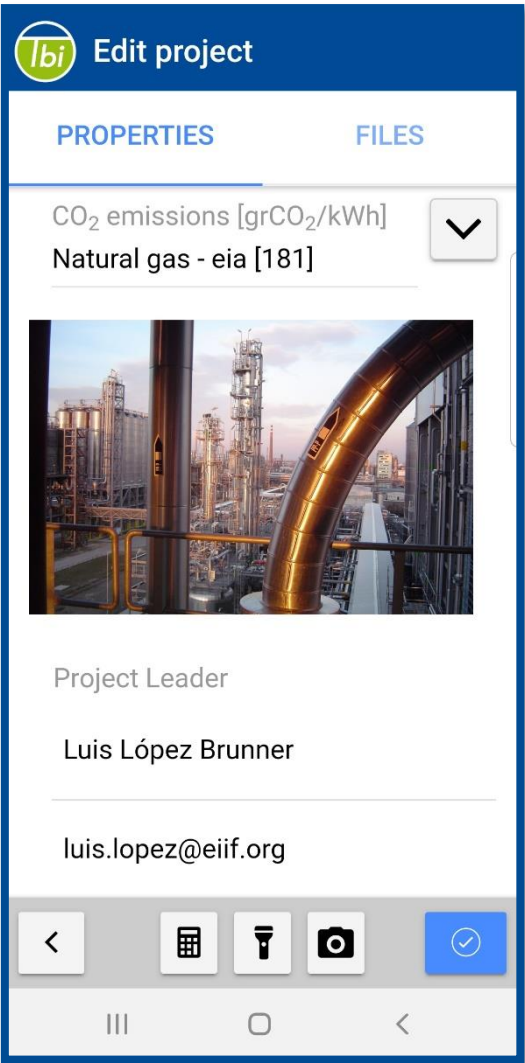
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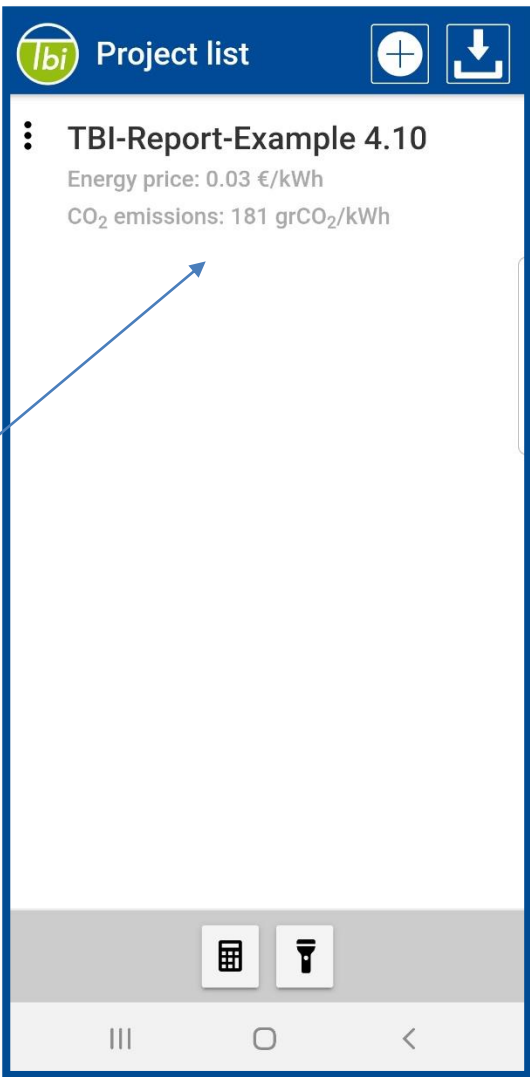
Take or Choose a Picture for Your TBI Project



Insert Contacts and Save Your Project



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



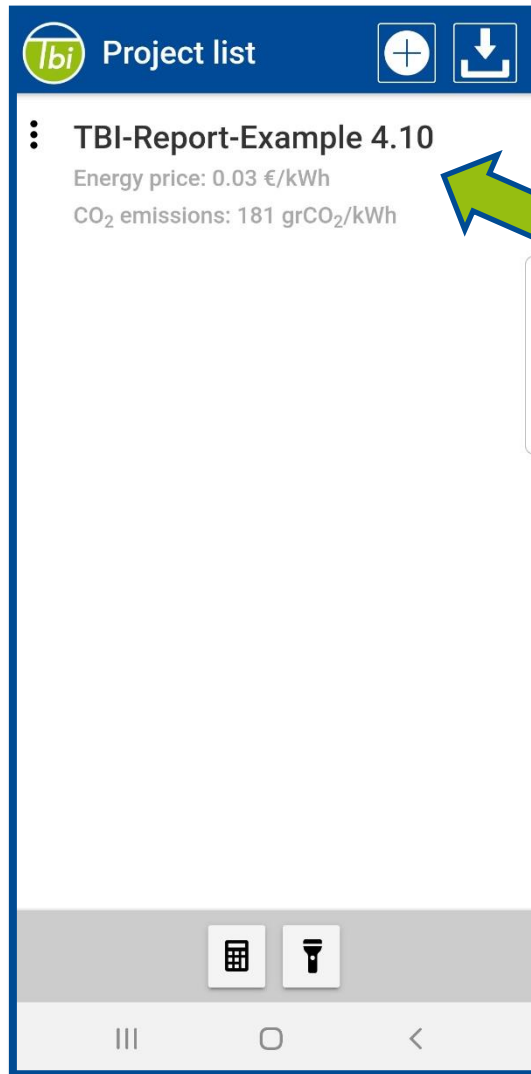
Estimate Your First Component

1st Component:

- Component/Location: Pipe 1 / outside
- Operational time (hrs/yr): 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



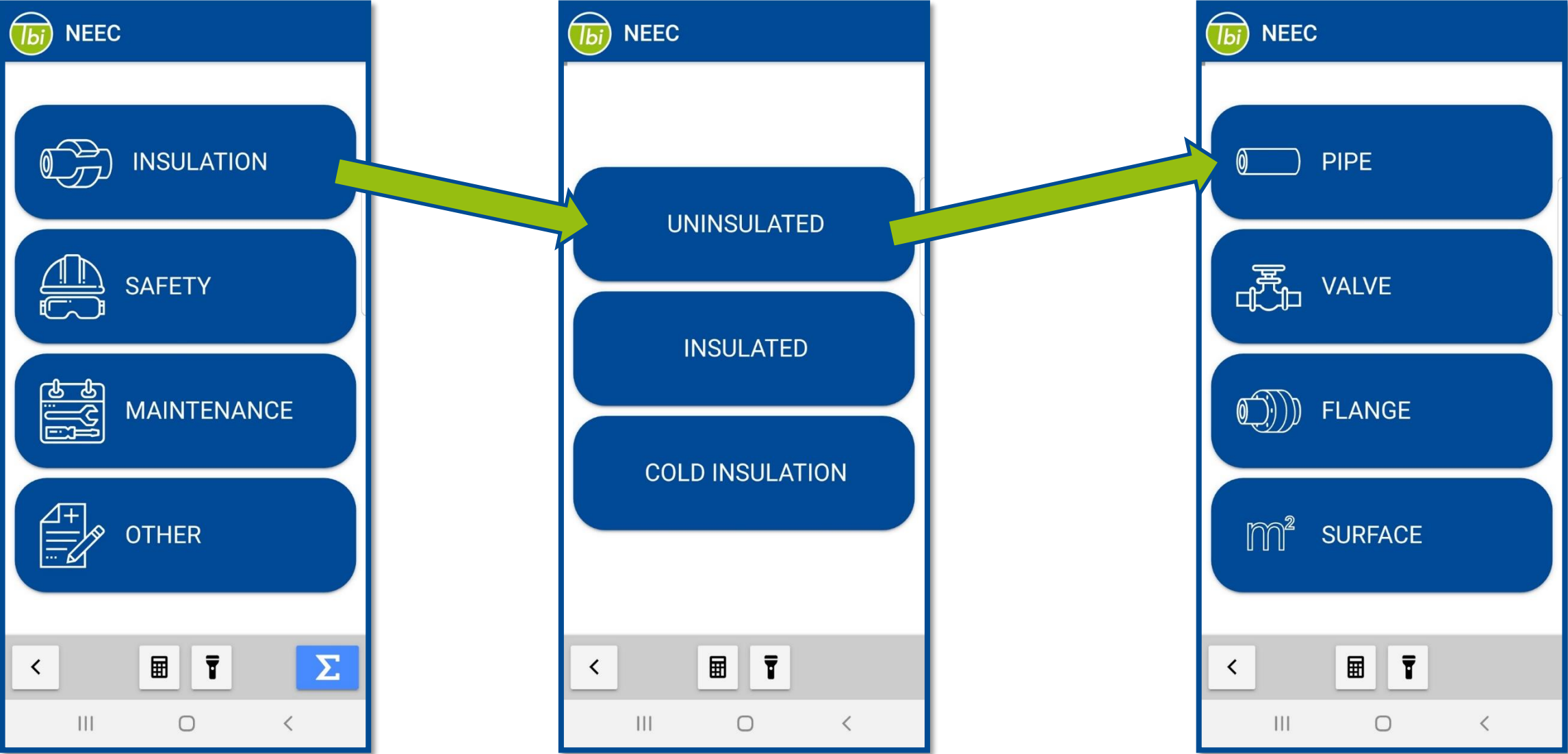
Estimate Your First Component



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



Estimate Your First Component



Insert Your First Component

1st Component:

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

Uninsulated Pipe

Component/Location
Pipe 1 / outside

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

Diameter (mm)
610

Length (m)
3



Surface material [ε]
Corroded [0.80]

Surface temp (°C) Unknown
250 ☐

III ○ <




Complete Your First Component by Taking a Picture

 Uninsulated Pipe 

Length (m)


3

Surface material [ε]

Corroded [0.80] 


Surface temp (°C)






250

Unknown 


Ambient temperature (°C)


15



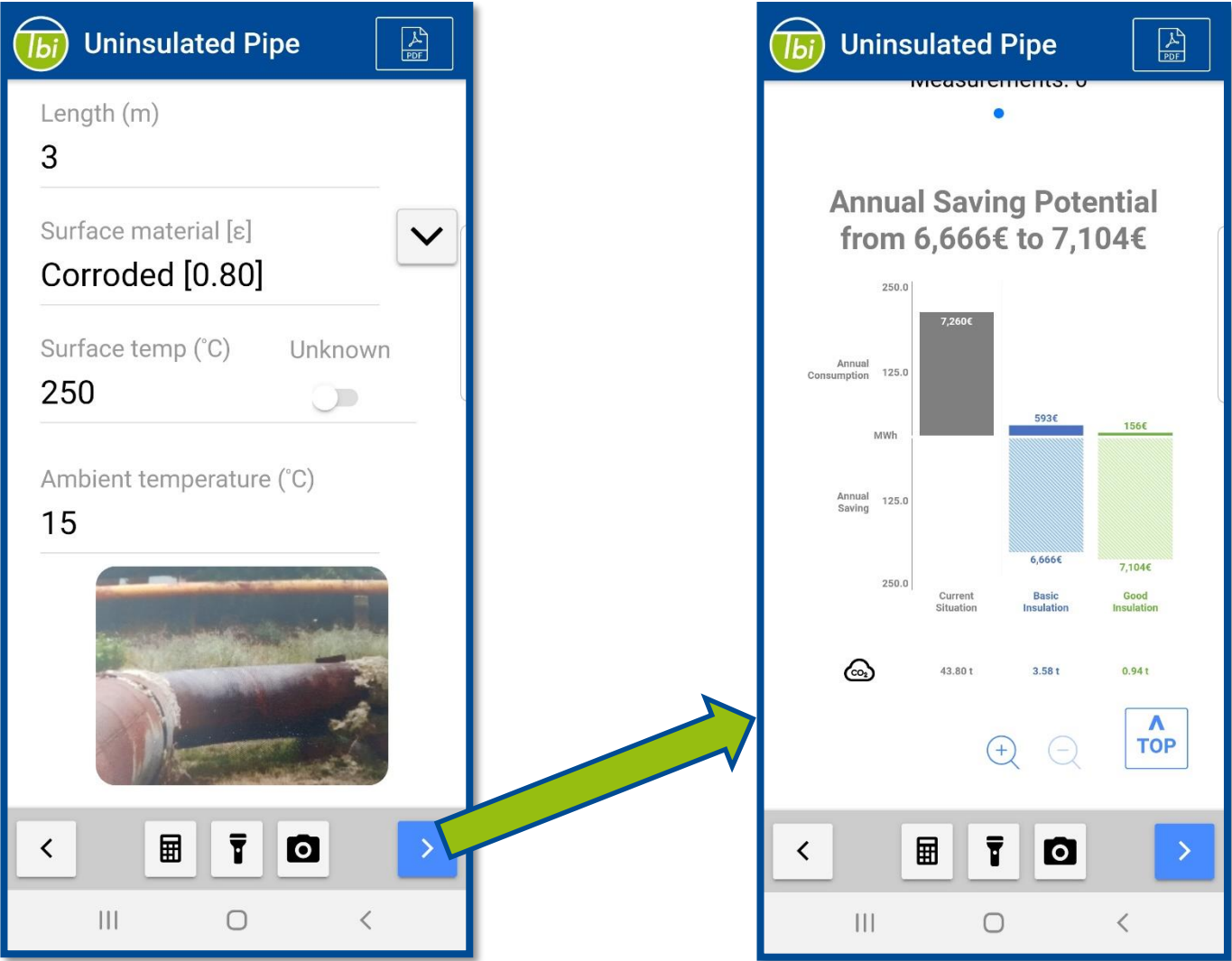
III



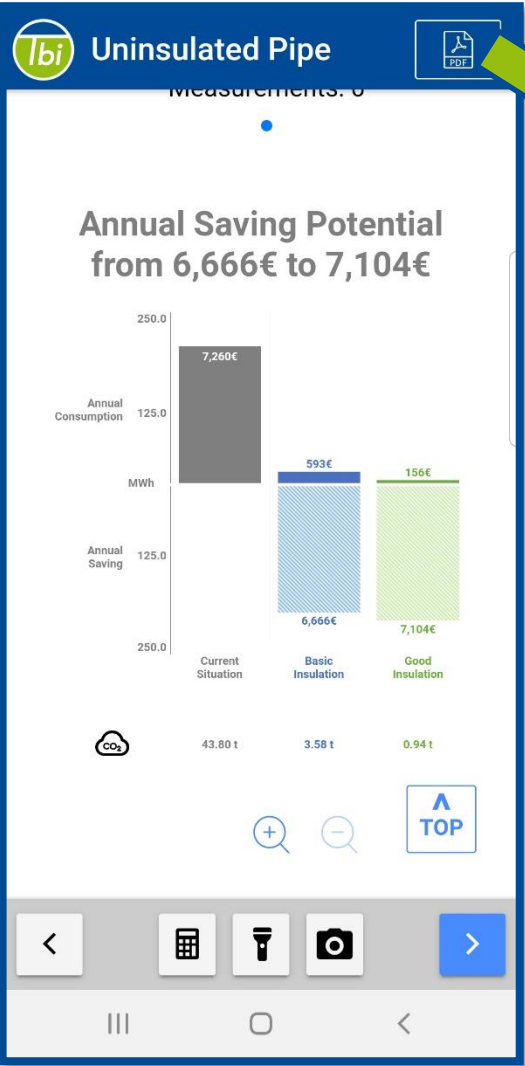




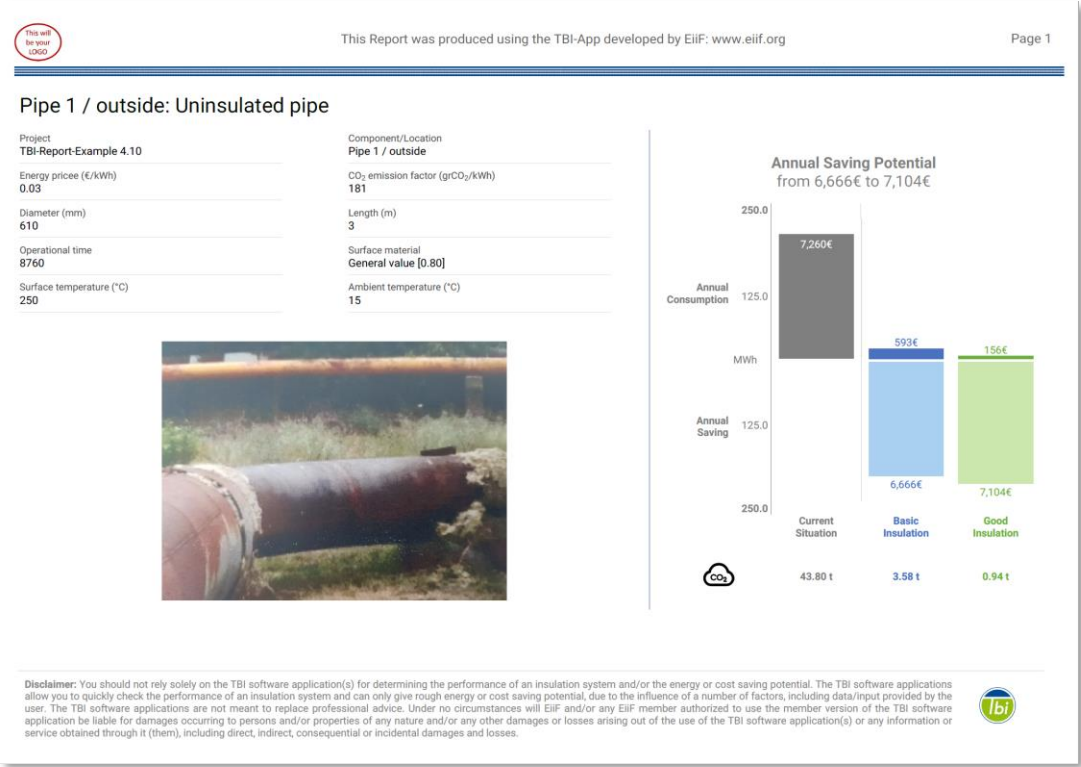
Click to See Results of Your First Component



The PDF for One Component



← Click on the PDF Icon to create the component PDF

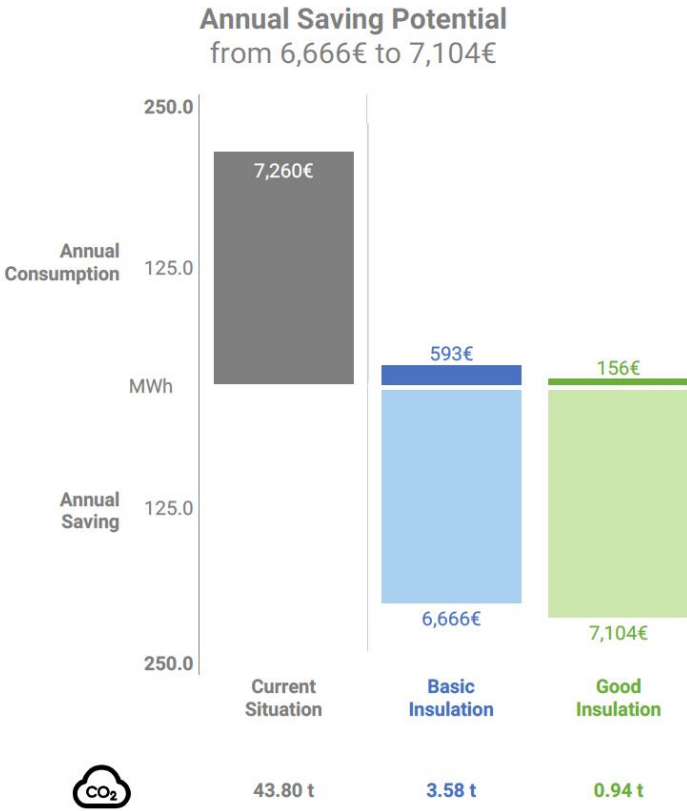




The PDF

Pipe 1 / outside: Uninsulated pipe

Project	Component/Location
TBI-Report-Example 4.10	Pipe 1 / outside
Energy pricee (€/kWh)	CO ₂ emission factor (grCO ₂ /kWh)
0.03	181
Diameter (mm)	Length (m)
610	3
Operational time	Surface material
8760	General value [0.80]
Surface temperature (°C)	Ambient temperature (°C)
250	15



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?

Tbi Summary

PDF

Energy & CO2 analysis per year

Component Location	Units	Current Losses & Emissions	Potential savings
Pipe 1	MWh	241.99	222.21 - 236.7
: 1 /	€	7,260	6,666 - 7,104
outside	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

Tbi NEEC

INSULATION

SAFETY

MAINTENANCE

OTHER

Tbi Project list

+

TBI-Report-Example 4.10

Energy price: 0.03 €/kWh

CO₂ emissions: 181 grCO₂/kWh

Tbi 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





Summary







Component Location		Units	Current Losses & Emissions	Potential Savings
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-Report



Project:

TBI-Report-Example 4.10

Your TBI contact:

Eiif Example
Henry Insulator

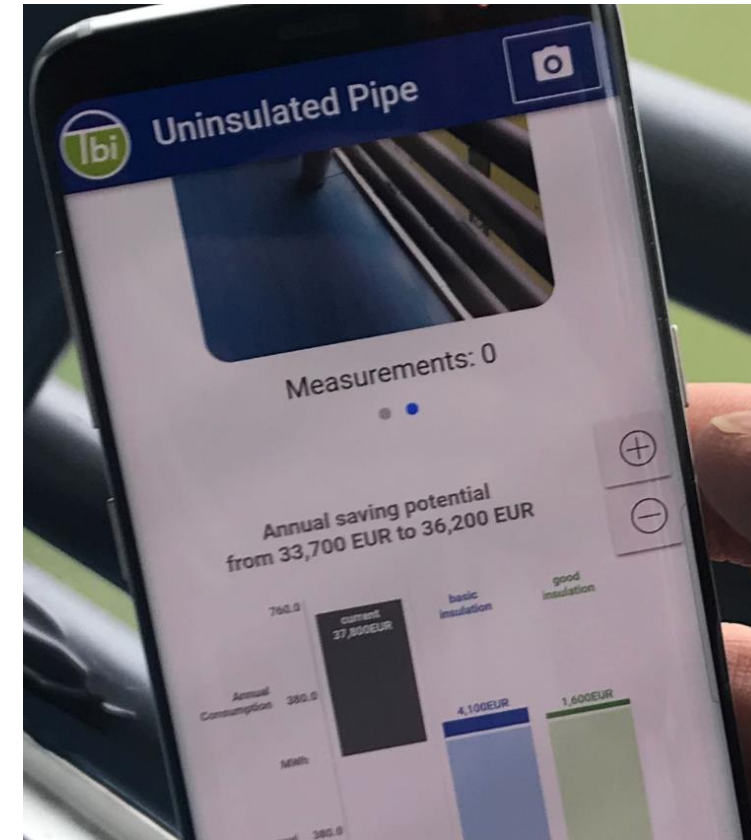
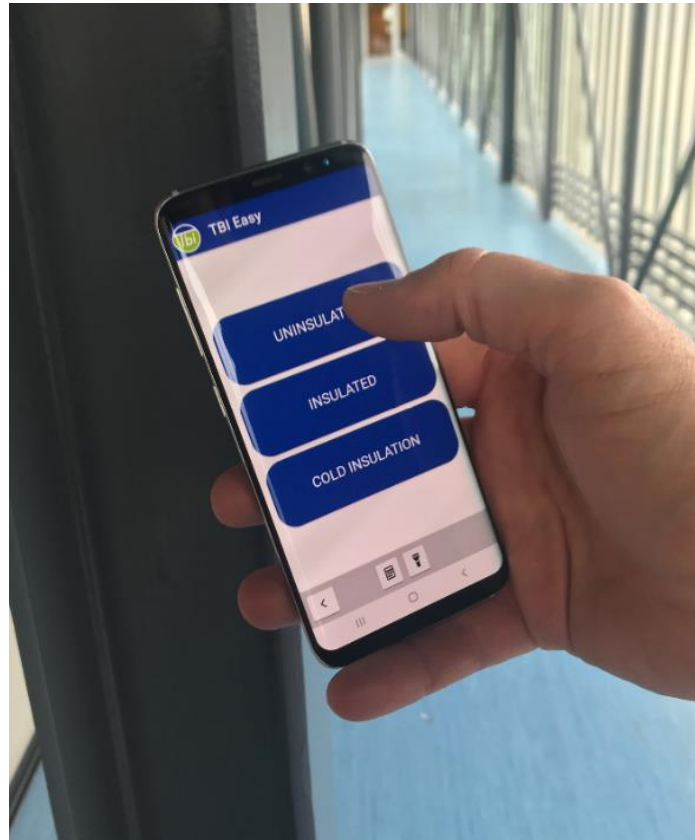
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This Report was produced using the TBI-App developed by Eiif: www.eiif.org



Enjoy Using the TBI-App



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