

Testfacilities.eu



EU Interreg Project Inn2POWER
Innovation to Push Offshore Wind Energy Regions

Agenda

Testfacilities.eu by Christian Munk Jensen, Project Manager, Energy Cluster Denmark

- Energy Cluster Denmark
- Why?
- Testfacilities.eu walkthrough

800 mio.

DKK in project portfolio



5 focus areas

across the entire energy sector



+375
members

6 offices

Aalborg
Aarhus
Esbjerg
Fredericia
København
Sønderborg



+80

active projects

including 66 innovation projects



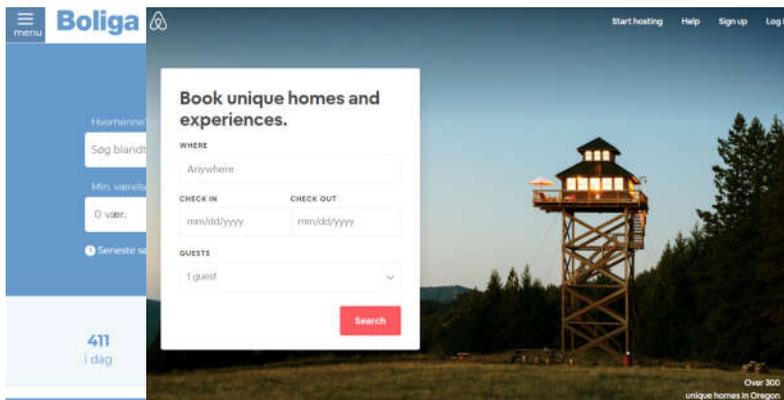
The energy industry

contributes to
more than 130.000 jobs

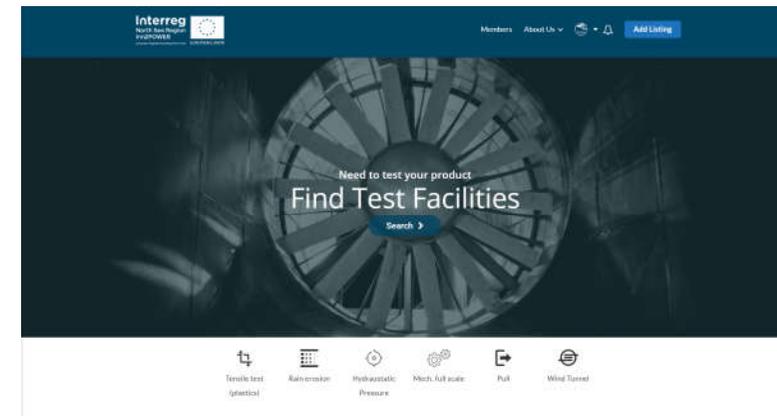
generates
+334 mia. DKK in turnover

generates
117 mia. DKK in export

What do these have in common?

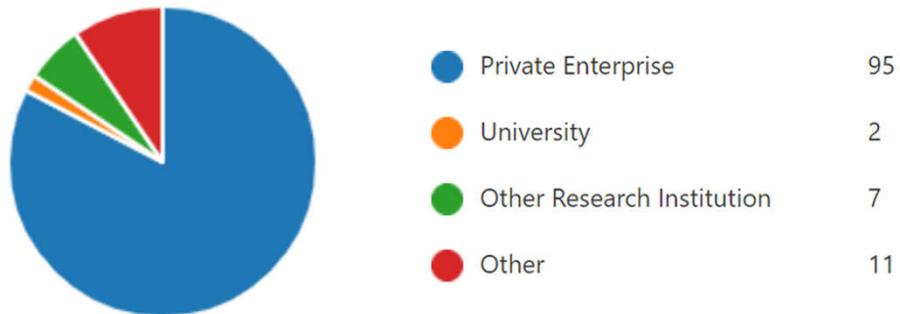


- Hard to find
- Cost
- Large capital investment
- Low utilization

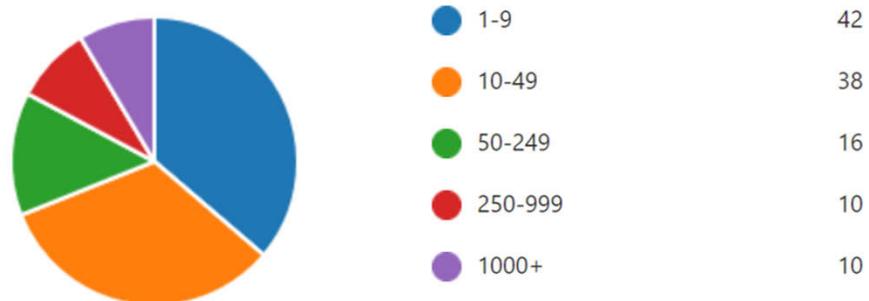


Respondents: 116

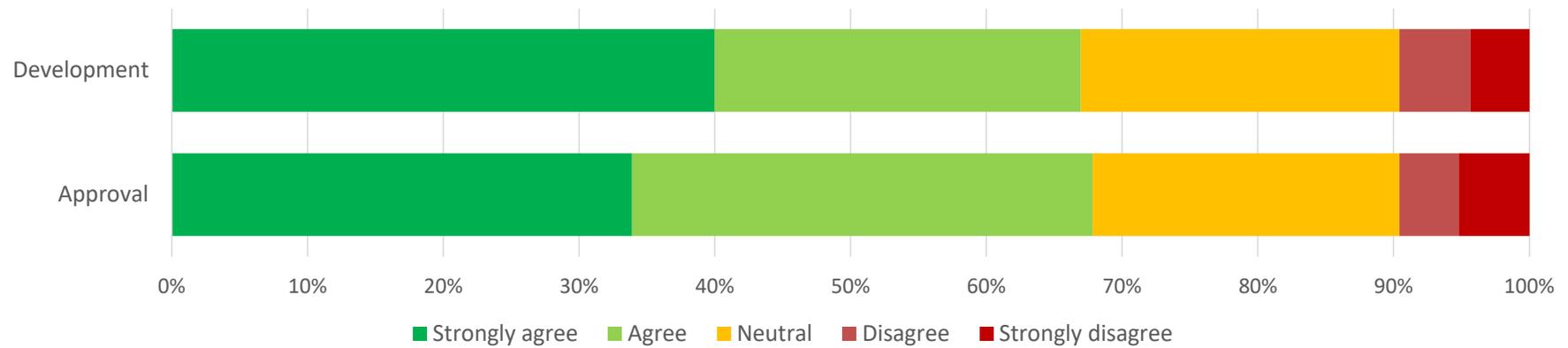
What type of organisation are you?



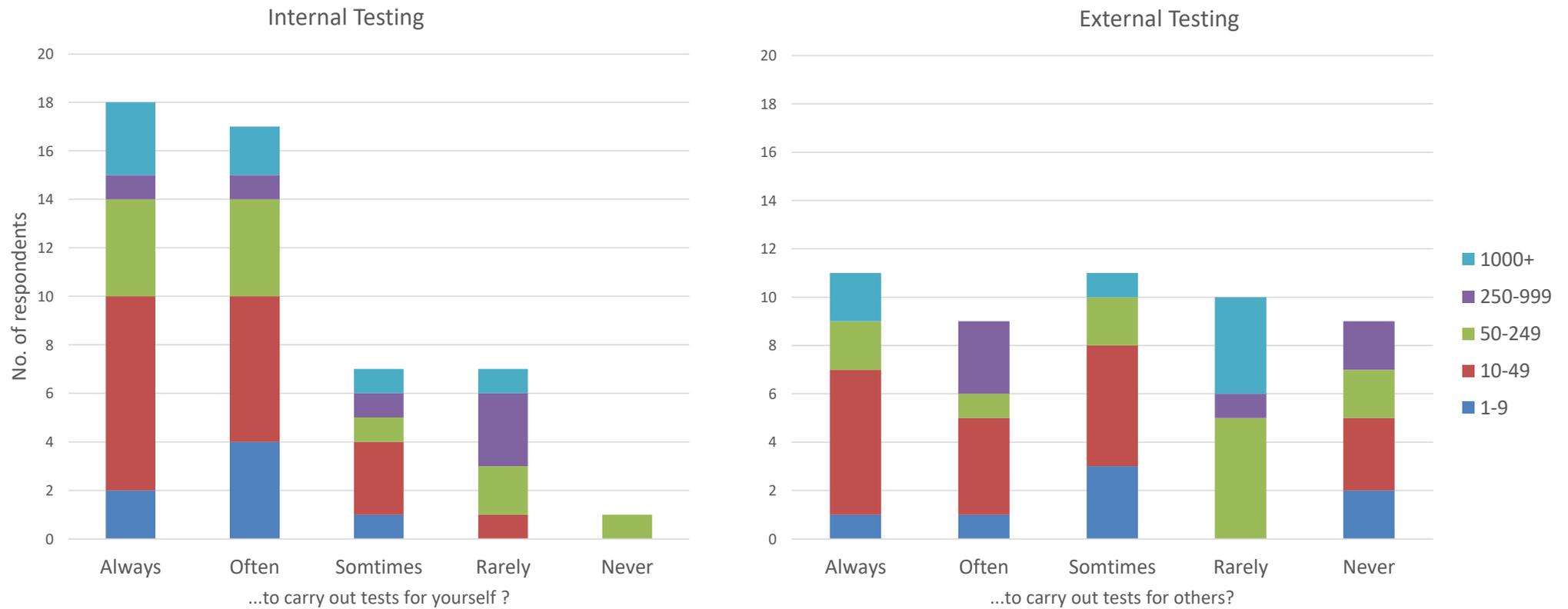
Number of employees



Using test facilities are important for our company

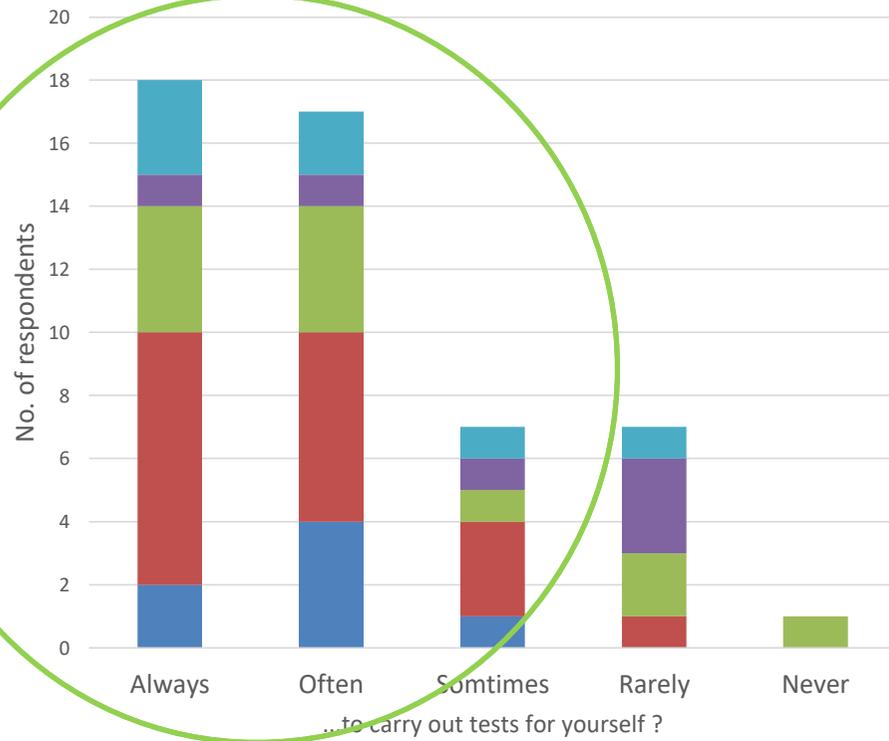


How often does your organisation use test facilities...

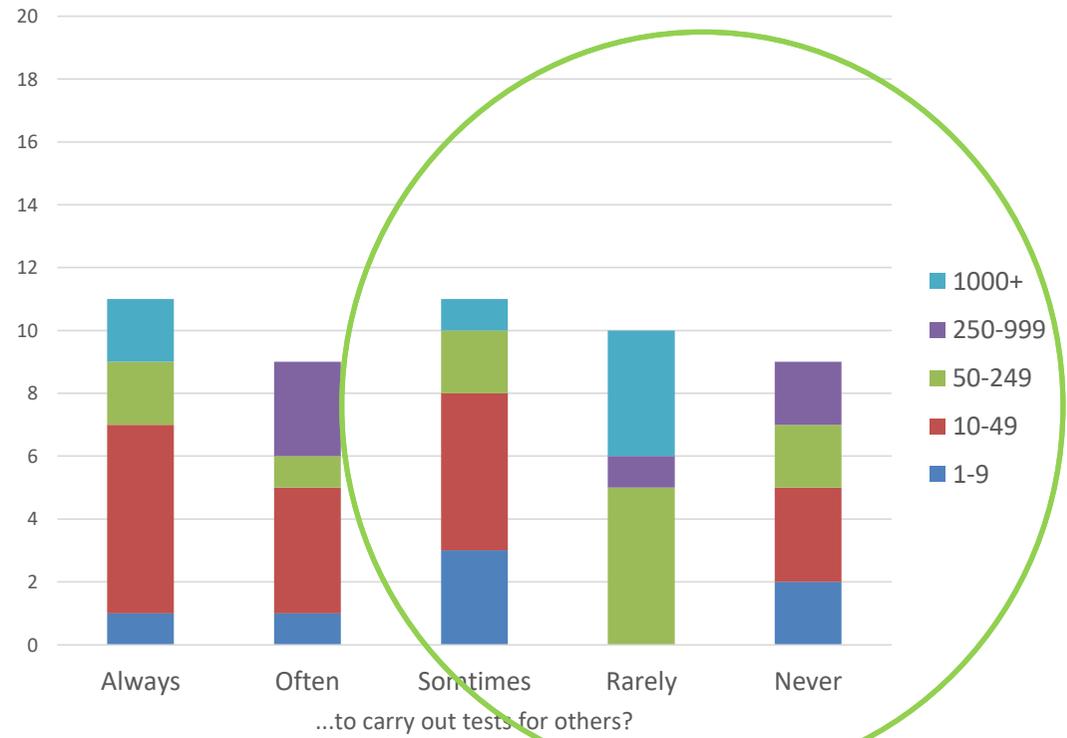


How often does your organisation use test facilities...

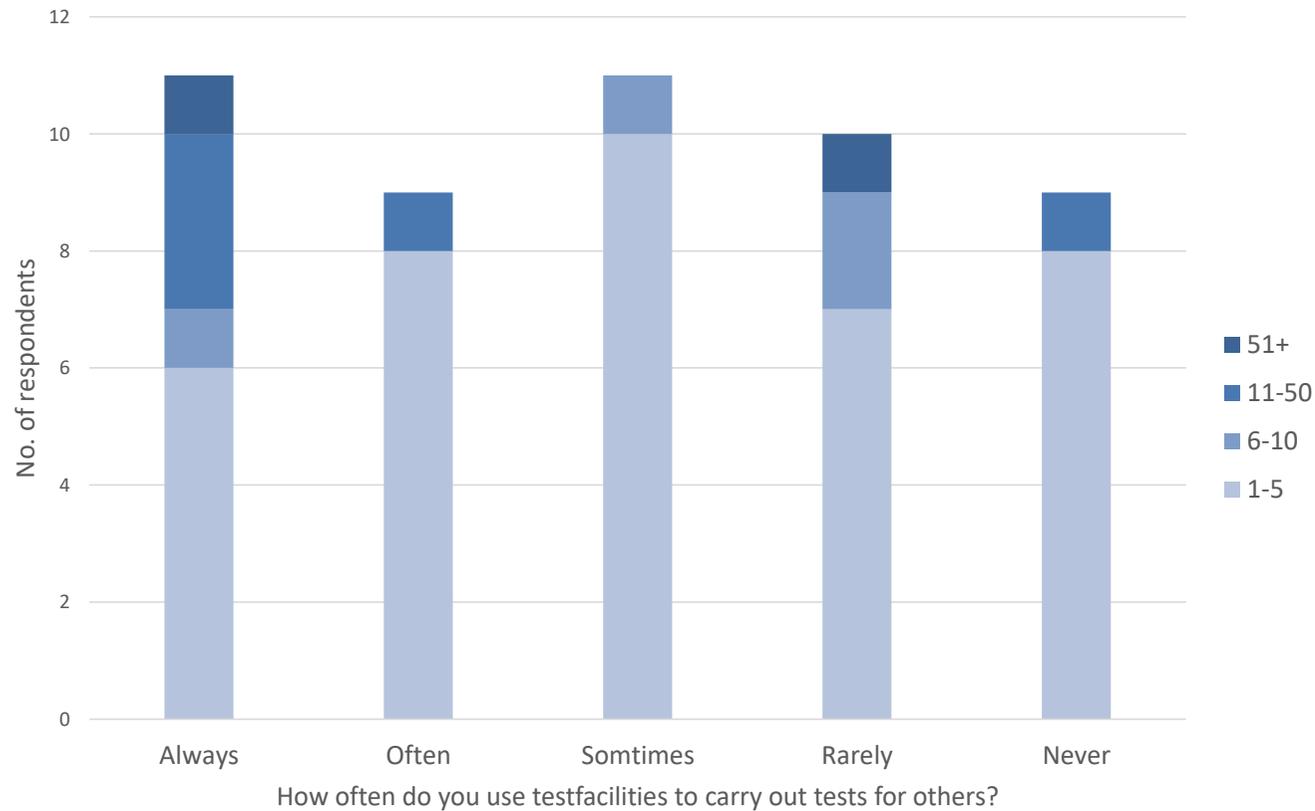
Internal Testing



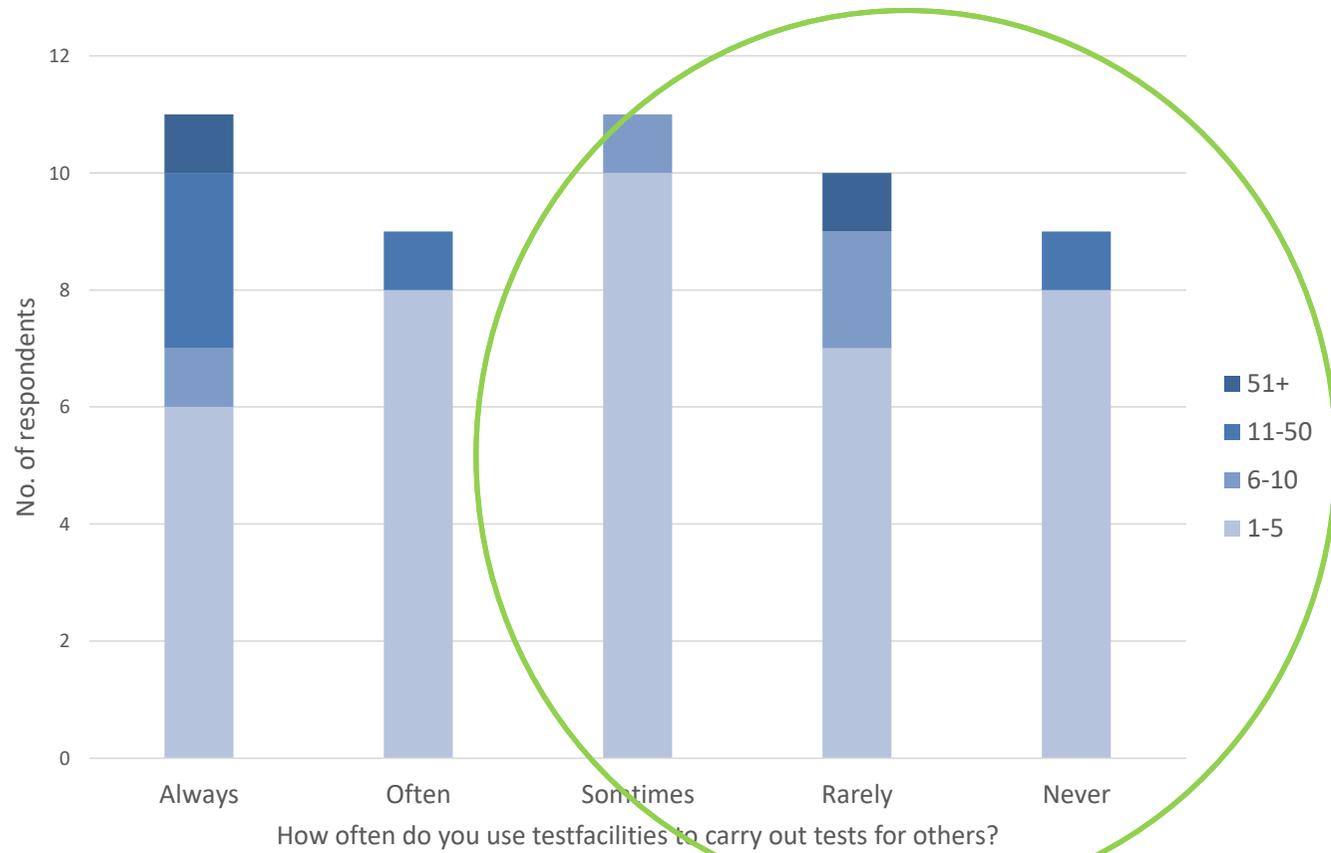
External Testing



External testing by no. of test facilities



External testing by no. of test facilities

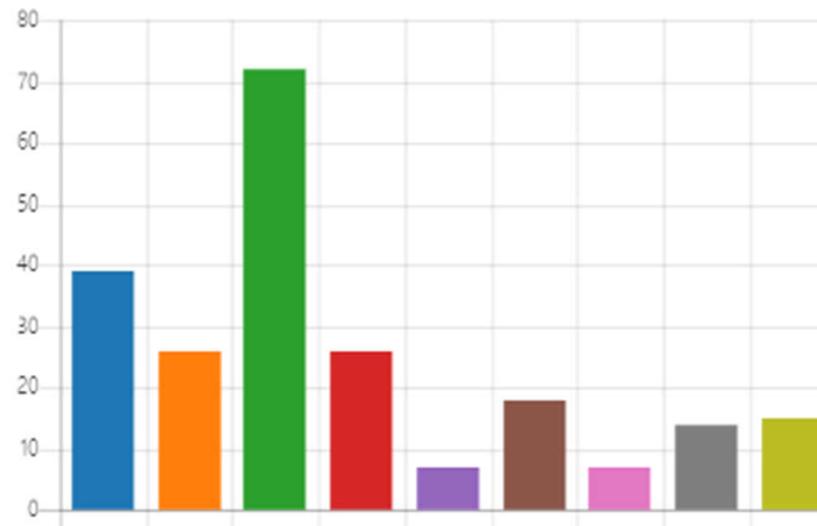


How do you find testfacilities?

How do you find new test facilities?

[More Details](#)

● Search engine (e.g. Google)	39
● Owners website	26
● Personal network	72
● Internal company overview	26
● Brochures	7
● LinkedIn	18
● Social media (not LinkedIn)	7
● Fairs	14
● Other	15

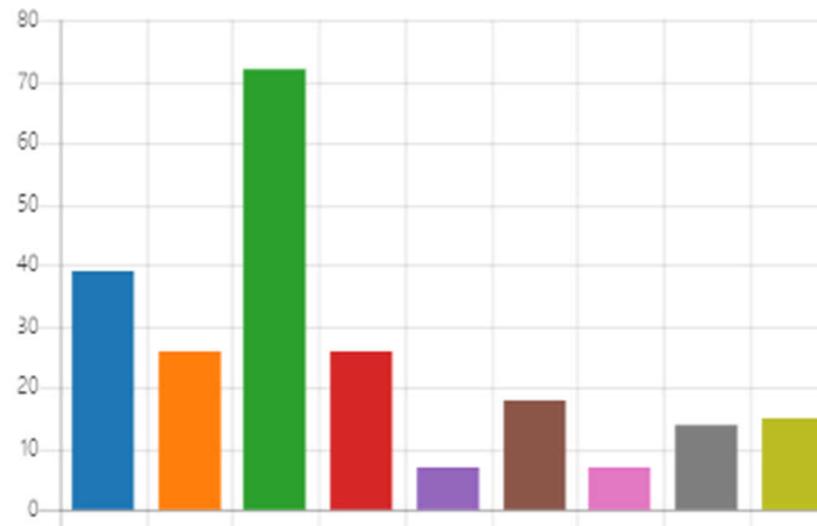


How do you find testfacilities?

How do you find new test facilities?

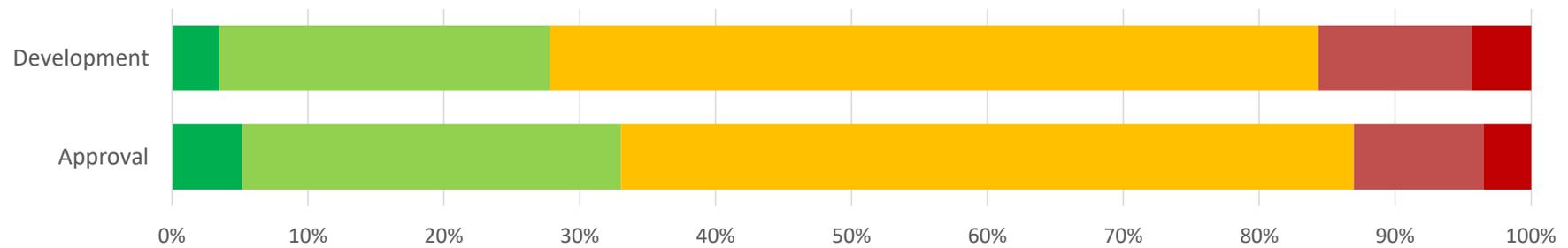
[More Details](#)

● Search engine (e.g. Google)	39
● Owners website	26
● Personal network	72
● Internal company overview	26
● Brochures	7
● LinkedIn	18
● Social media (not LinkedIn)	7
● Fairs	14
● Other	15

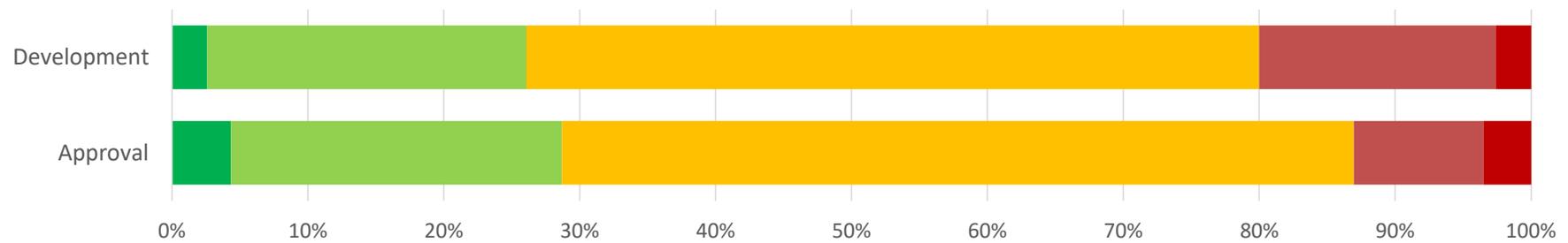


Finding and accessing

it is easy to *find* the right test facility

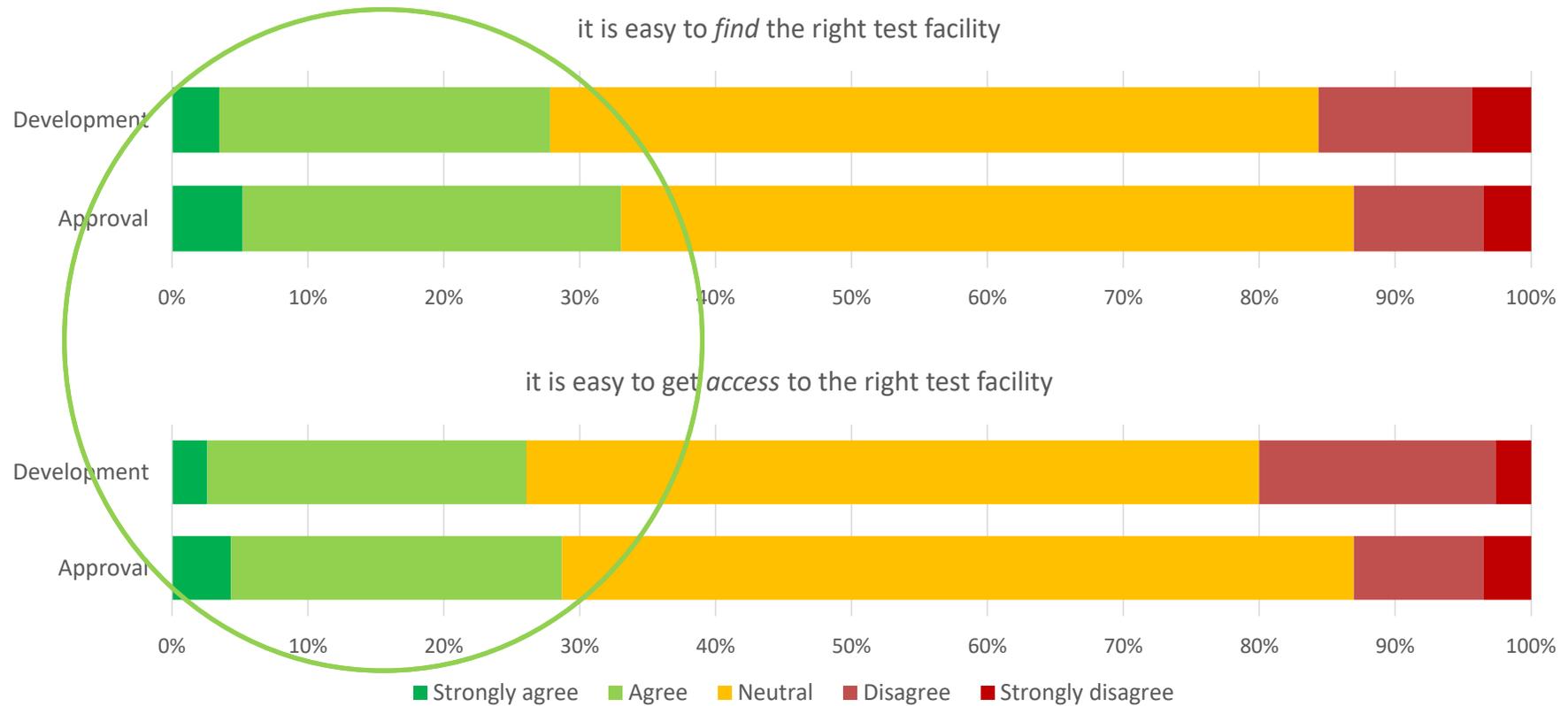


it is easy to get *access* to the right test facility

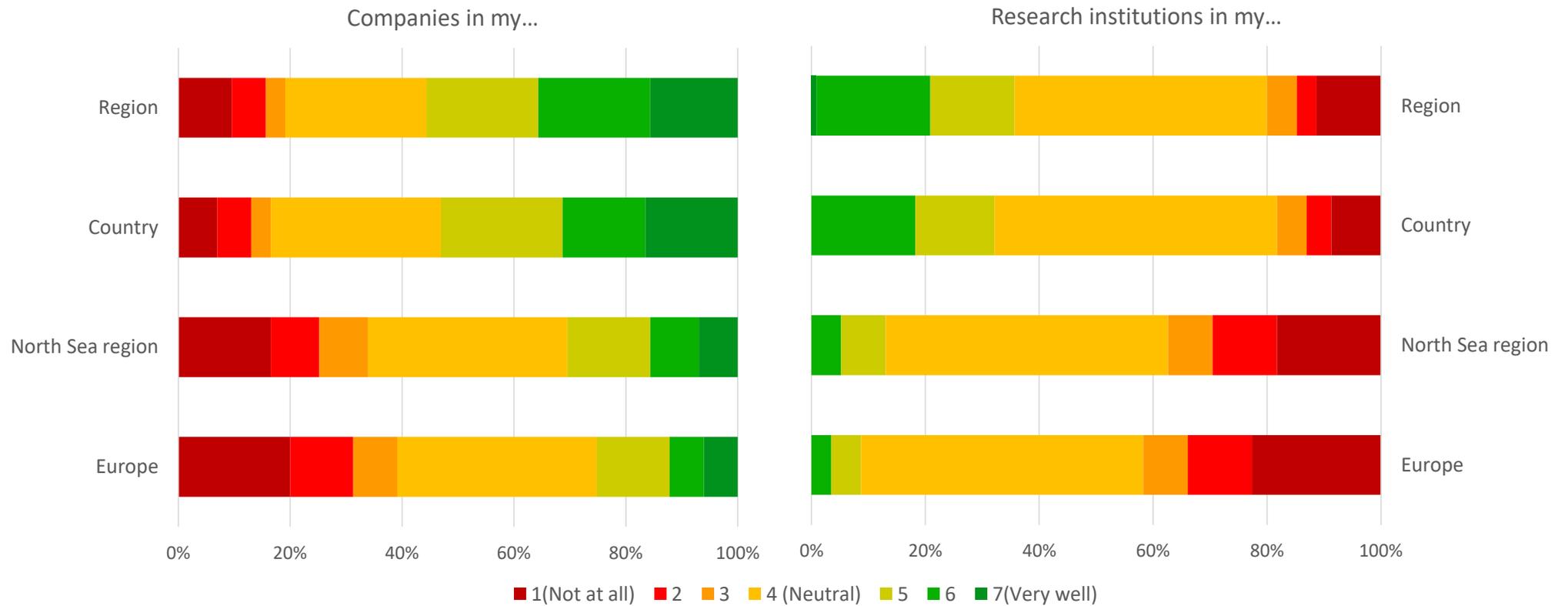


Strongly agree Agree Neutral Disagree Strongly disagree

Finding and accessing



I know the relevant test facilities owned by ...



I know the relevant test facilities owned by ...



Summary findings

- TF are important for more than two thirds
- Many do not carry out external tests
 - Especially those with fewer TF (1-10)
- TF are found by “googling” and personal network
- One third agrees it is easy to find and access TF
- Few had a good overview of relevant TF
- Only *one* respondent knew relevant TF owned by research institutions “very well”



Just to the www.testfacilities.eu and try it out
Create a user just like on any other website

Need to test your product
Find Test Facilities

Search >


Tensile test
(plastics)


Rain erosion


Hydraustatic
Pressure


Mech. full scale


Pull


Wind Tunnel

Find What are you looking for? Near Location

5 Results For Pull listings

View listings by: Grid List

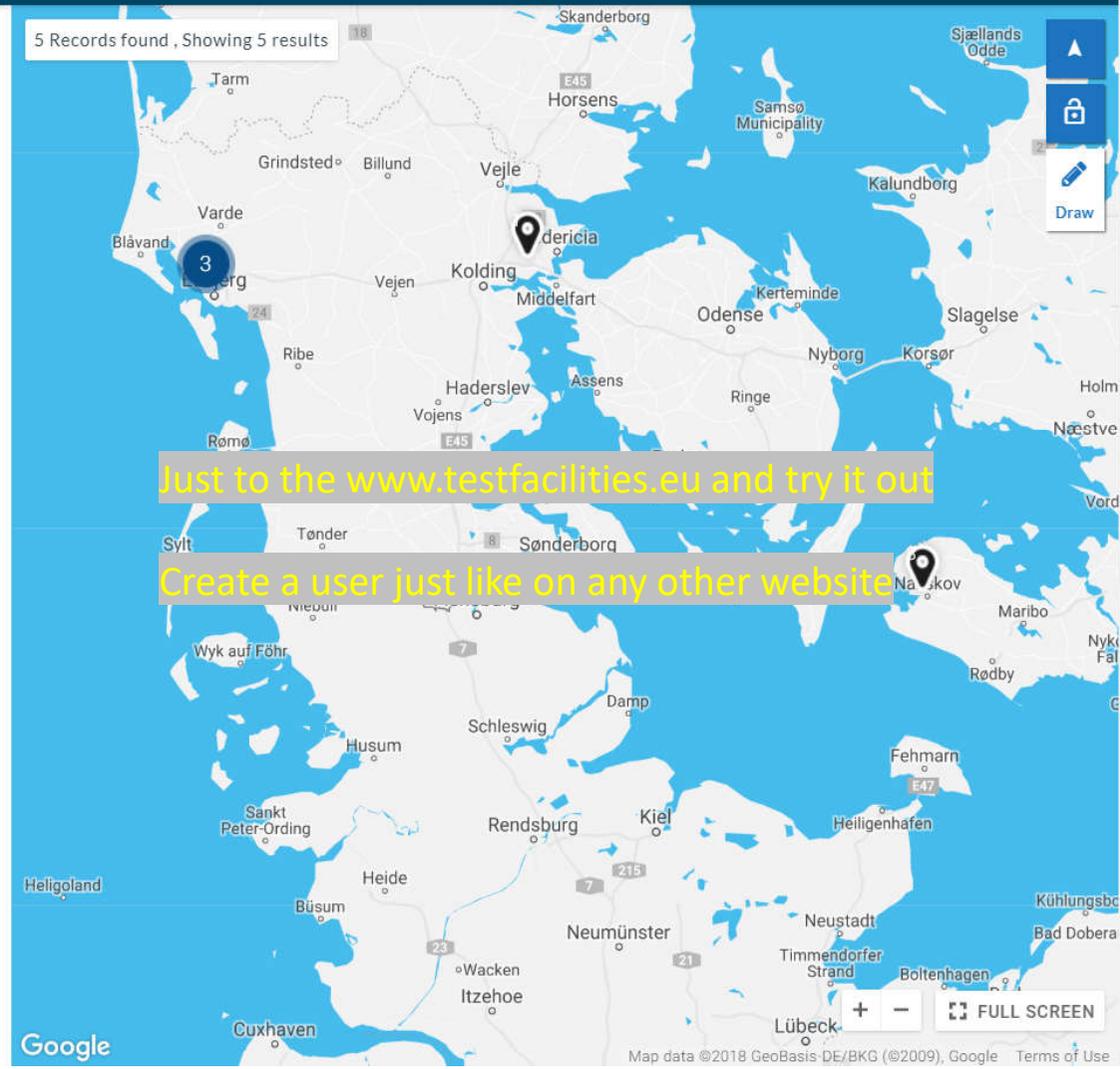
Pull More Filters

Set Search Alert +

35 M Test Bench
Børupvej 80, 7000 Fredericia, Denmark
To be added
Review coming soon

Test Tower 50 Ton
Olievej 4, Esbjerg, Denmark
We can test up to 50 ton in our vertical test tower In the 50 ...
Review coming soon

Test Bench 1.200 Ton
Olievej 4, Esbjerg, Denmark
We perform pull tests and breaking tests in our 1200 ton test ben...
Review coming soon



Just to the www.testfacilities.eu and try it out

Create a user just like on any other website

Find

Near

5 Results For Pull listings

View listings by:

Pull

Test Object

Length (Meters) 0 - 100

Width (Meters) 0 - 50

Height (Meters) 0 - 25

Max Weight (Ton) 0 - 500

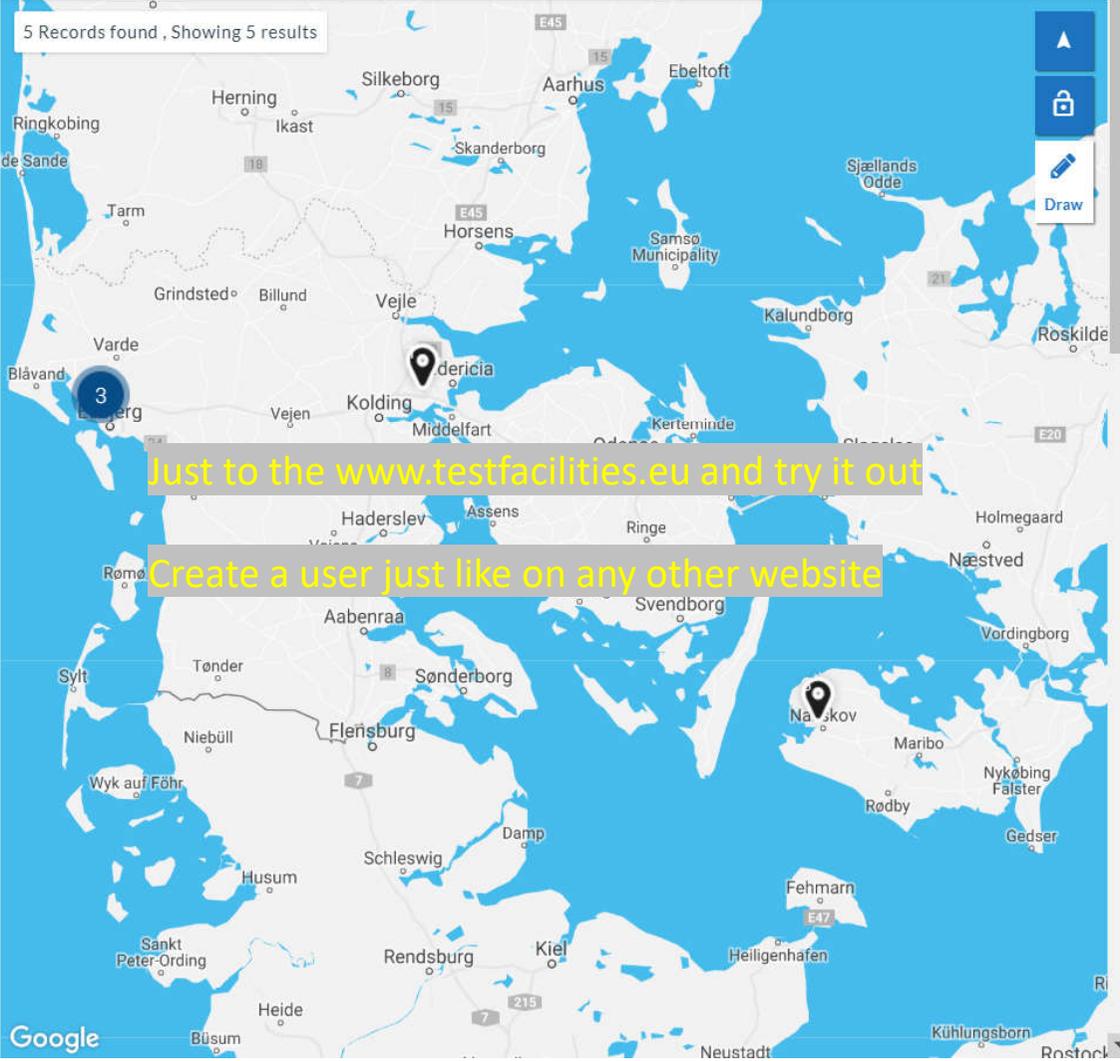
Test Possibilities

Pull Load (Ton) 0 - 3000

Break Test (Ton) 0 - 5000

Other Features

- | | | |
|--|--|--|
| <input type="checkbox"/> Horizontal pull | <input type="checkbox"/> Vertical pull | <input type="checkbox"/> Angled pull |
| <input type="checkbox"/> 3D laser meas. | <input type="checkbox"/> Elongation control/ meas. | <input type="checkbox"/> Load diagrams |
| <input type="checkbox"/> Third party accreditation | <input type="checkbox"/> 3D model of facility | <input type="checkbox"/> Video documentation |
| <input type="checkbox"/> Customized test | | |



Test Bench 1.200 Ton

🕒 Today : 9:00 am - 6:00 pm

📍 Olievej 4, Esbjerg, Denmark

[📄 Claim](#) [🚩 Flag](#) [❤️ Favourite](#)

Just to the www.testfacilities.eu and try it out

Create a user just like on any other website

Key Details

LENGTH (METERS)

14 Length (meters)

WIDTH (METERS)

6.9 Width (meters)

HEIGHT (METERS)

1.5 Height (meters)

MAX WEIGHT (TON)

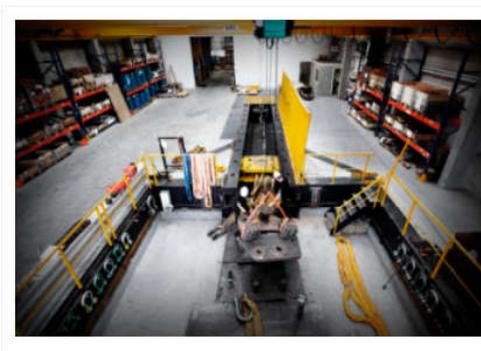
10 Max Weight (ton)

PULL LOAD (TON)

1200 Pull Load (ton)

BREAK TEST (TON)

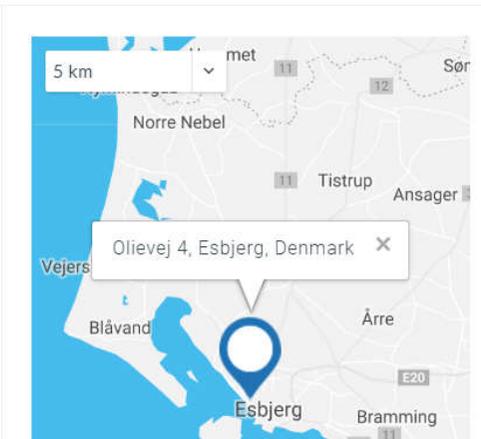
900 Break Test (ton)

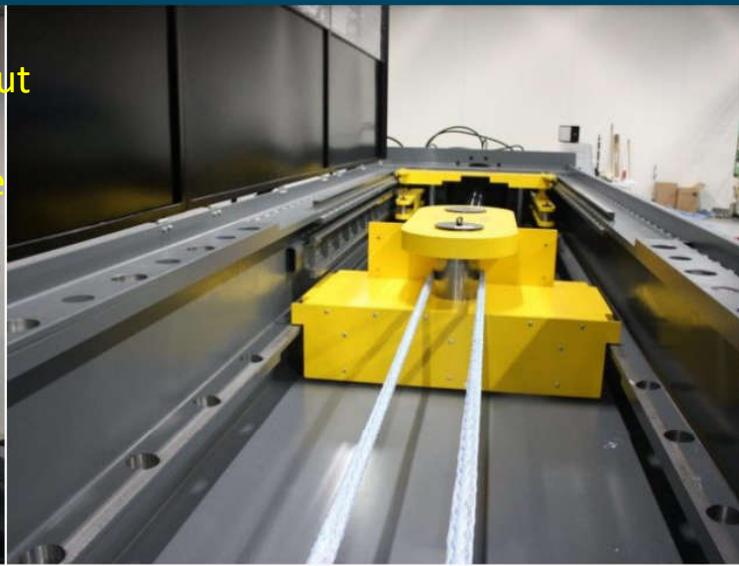
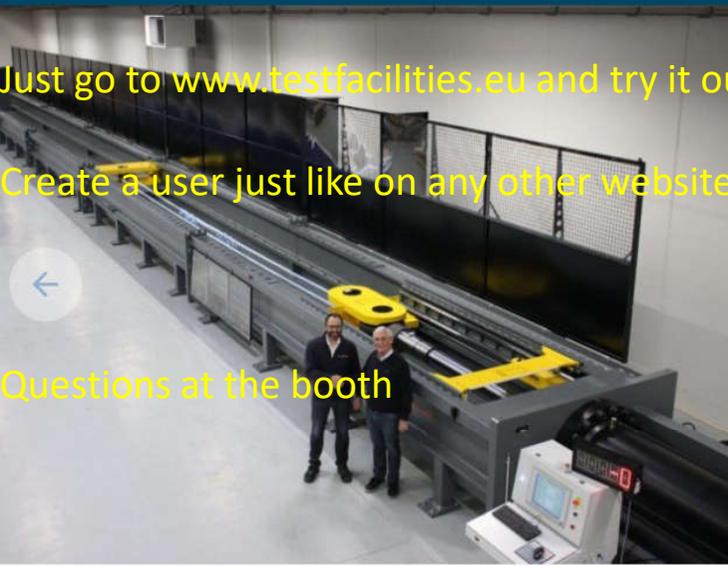


Features

- ✓ Horizontal pull
- ✗ Vertical pull
- ✓ Angled pull
- ✓ 3D laser meas.
- ✓ Elongation control/ meas.
- ✓ Load diagrams
- ✓ Third party accreditation
- ✓ 3D model of facility
- ✓ Video documentation
- ✓ Customized test programs

Test Facility Description





Just go to www.testfacilities.eu and try it out
Create a user just like on any other website

Questions at the booth

35 M Test Bench

Today: 9:00 am - 6:00 pm

Børupvej 80, 7000 Fredericia, Denmark

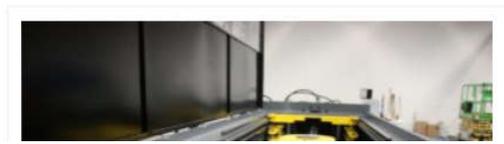
Claim Flag Favourite

Key Details

LENGTH (METERS)
35 Length (meters)

WIDTH (METERS)
2 Width (meters)

HEIGHT (METERS)
1 Height (meters)



Webinars on test facilities

- 4 part **webinar series on test facilities** within the North Sea Region
- 3 test facilities from Inn2POWER partner countries were presented during each webinar

- Topics

1. Open water test facilities



2. Wave basins/wave flumes



Webinars on test facilities

3. Cabling test facilities



4. Test facilities related to drones in offshore wind



- **252** Participants from **24** countries all over the world
- Testimonies DMEC (NL) & Blue Accelerator (BE)

Advantages of testfacilities.eu

All Testfacilities can be added to testfacilities.eu regardless of where they are, who owns them or how much or little the owner focuses on them.

One testfacility one listing, meaning the specific test bench can be searched for and found (it is not "we have wind tunnels", but "we have windtunnel no. 1 which can x, windtunnel 2 which can y etc.)

Detailed search function so the user can get a list of the specific testfacilities that lives up to their requirements (E.g. which pull test benches can pull 750+ ton vertically and has space for a test object which is 1m*1,2M*12m and weights 7 ton).