

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

+80

active projects

including 66 innovation projects



6 offices

Aalborg
Aarhus
Esbjerg
Fredericia
København
Sønderborg



**The energy
industry**

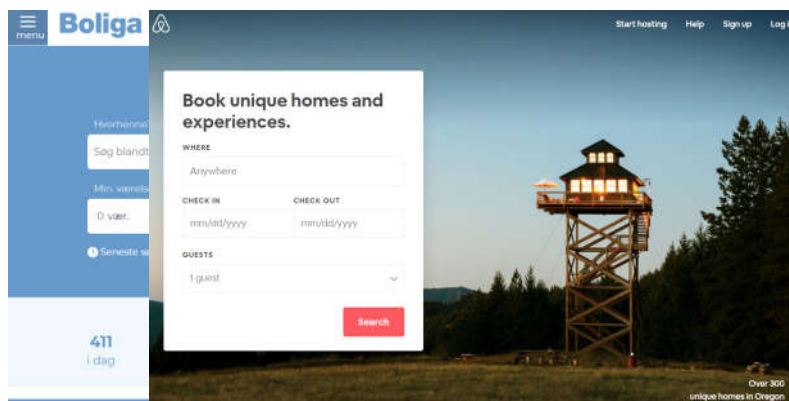
contributes to
**more than
130.000 jobs**

generates
**+334 mia.
DKK in turnover**

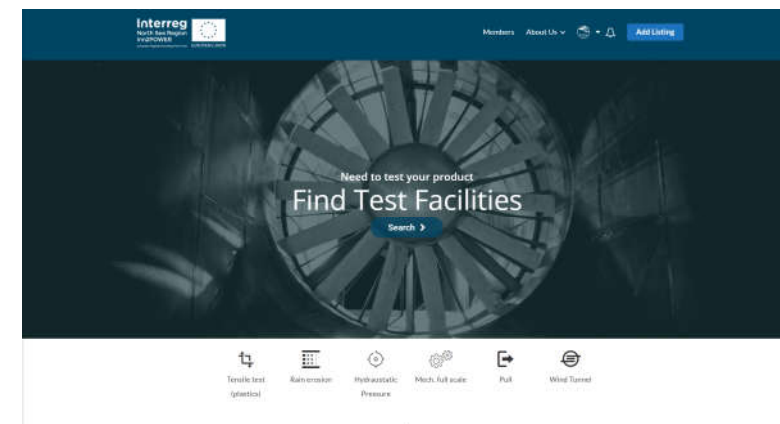
generates
**117 mia.
DKK in export**



What do these have in common?

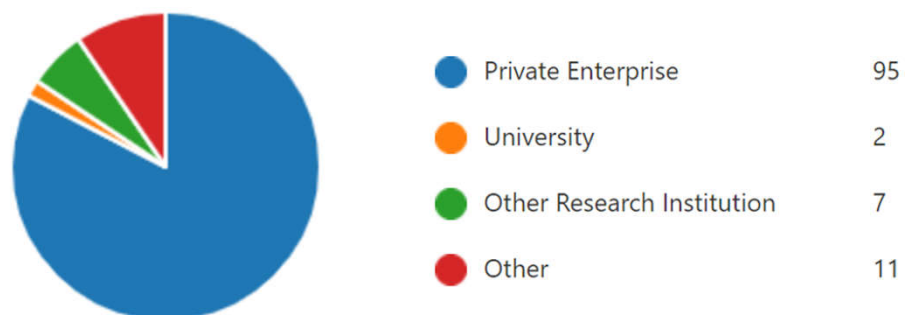


- Hard to find
- Cost
- Large capital investment
- Low utilization

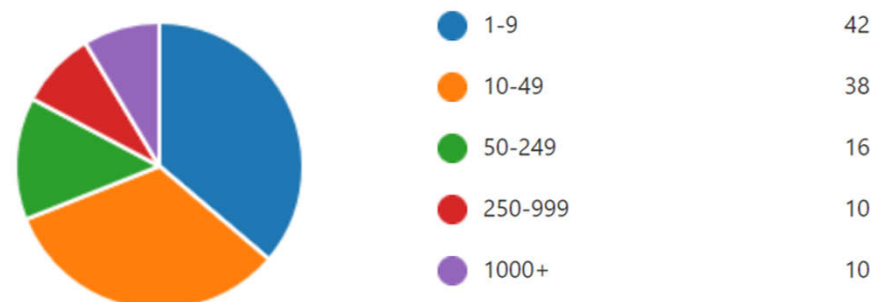


Respondents: 116

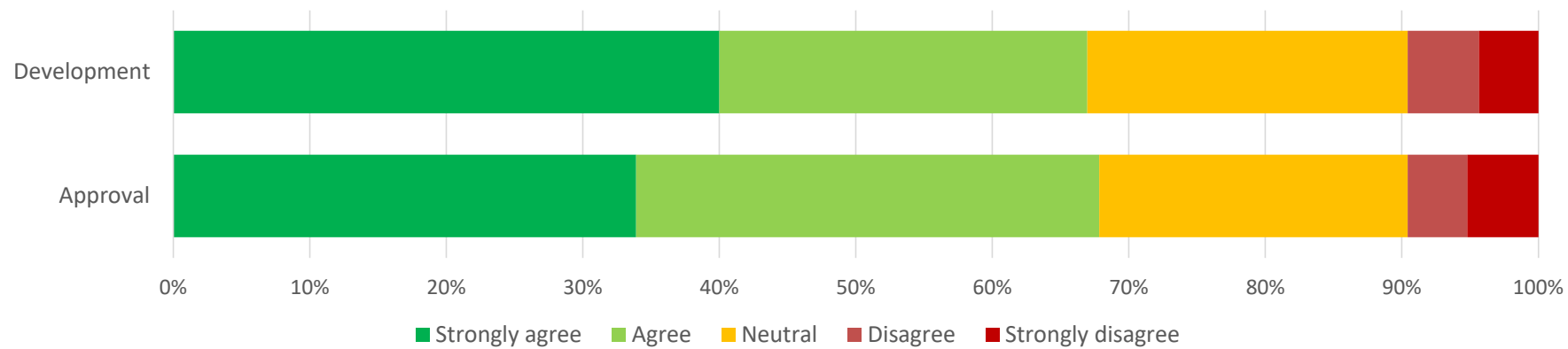
What type of organisation are you?



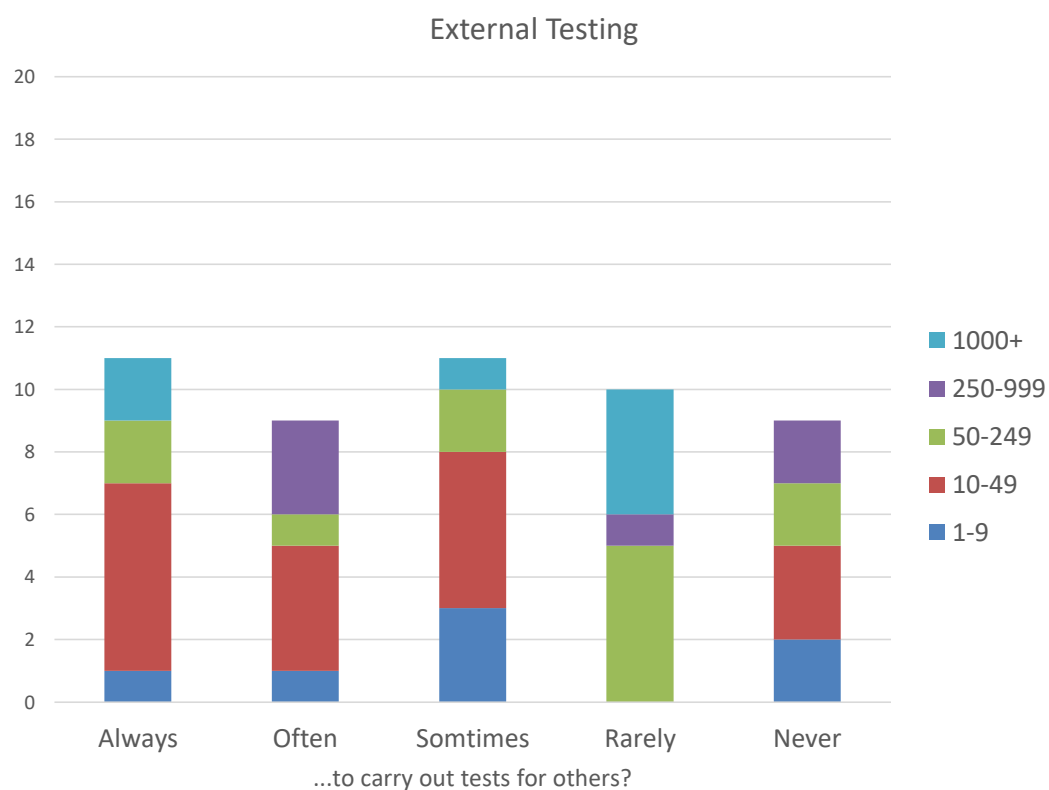
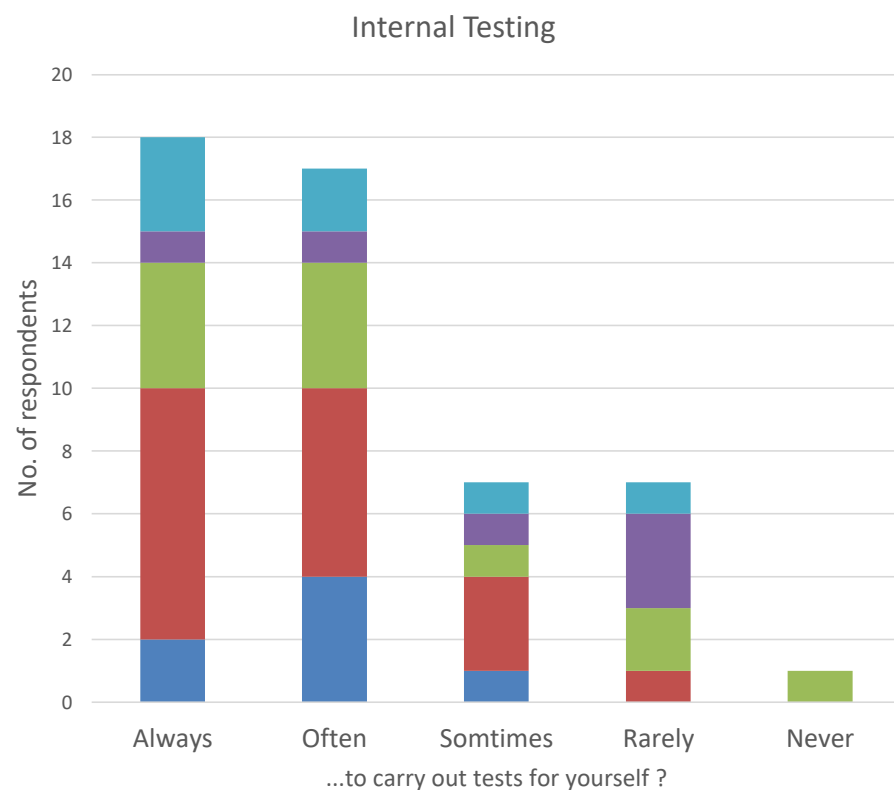
Number of employees



Using test facilities are important for our company

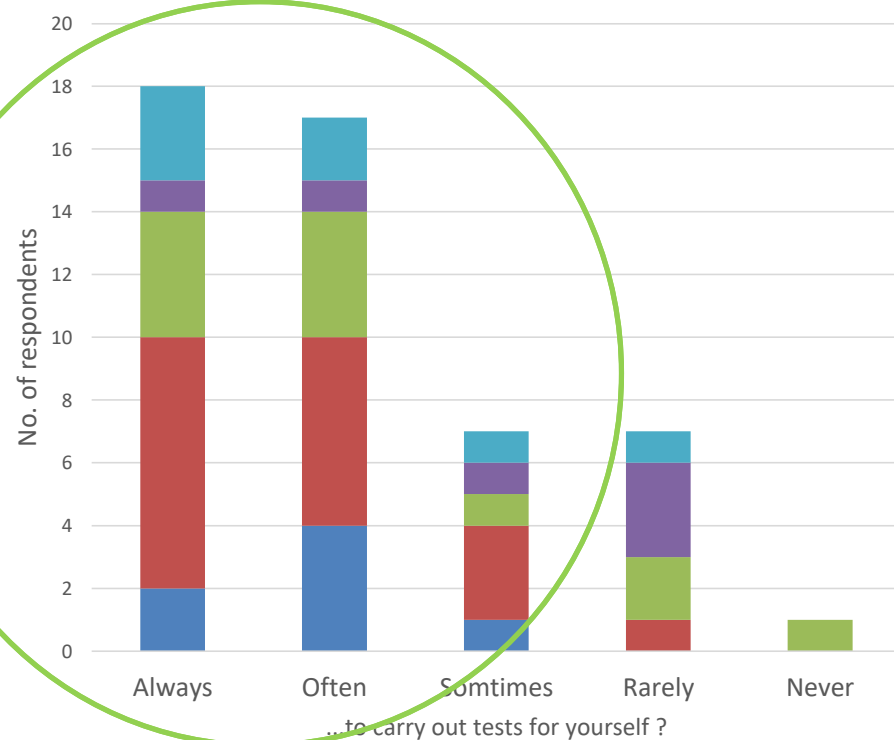


How often does your organisation use test facilities...

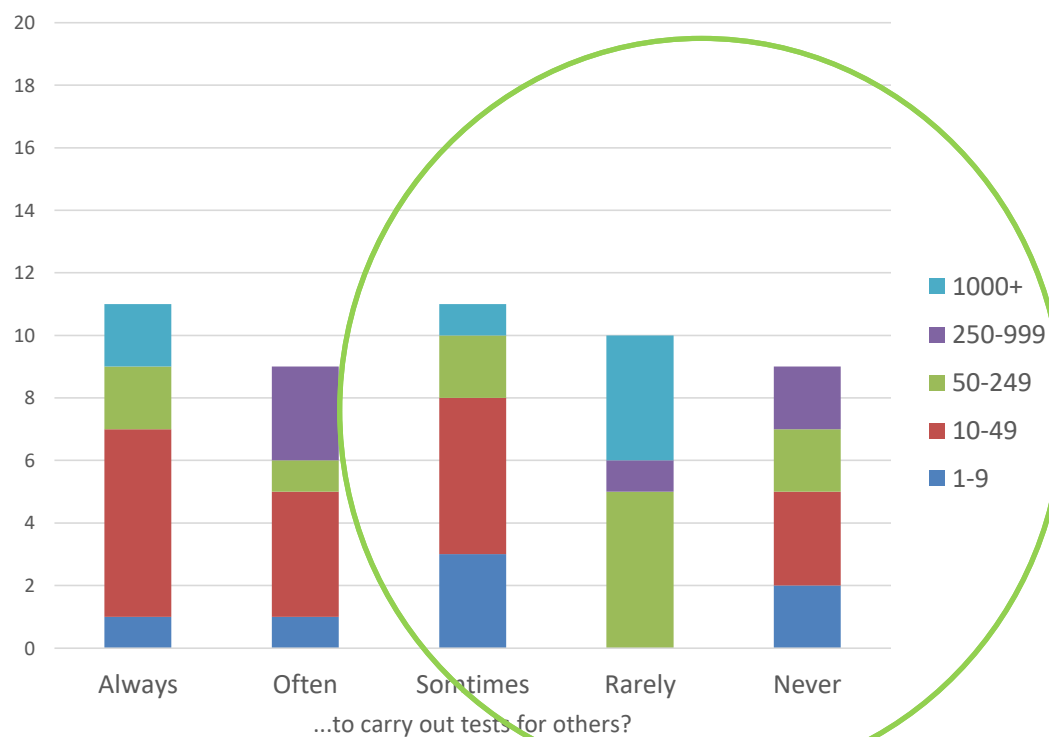


How often does your organisation use test facilities...

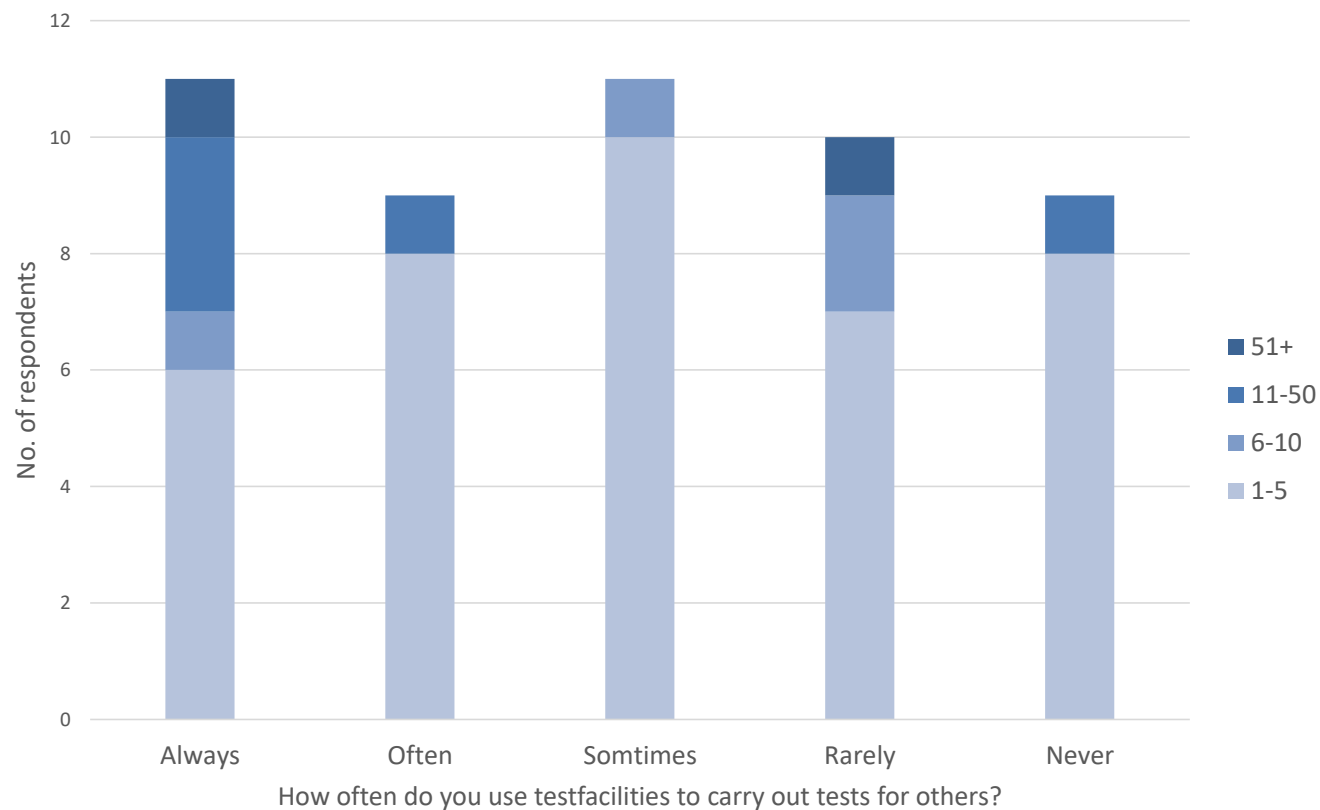
Internal Testing



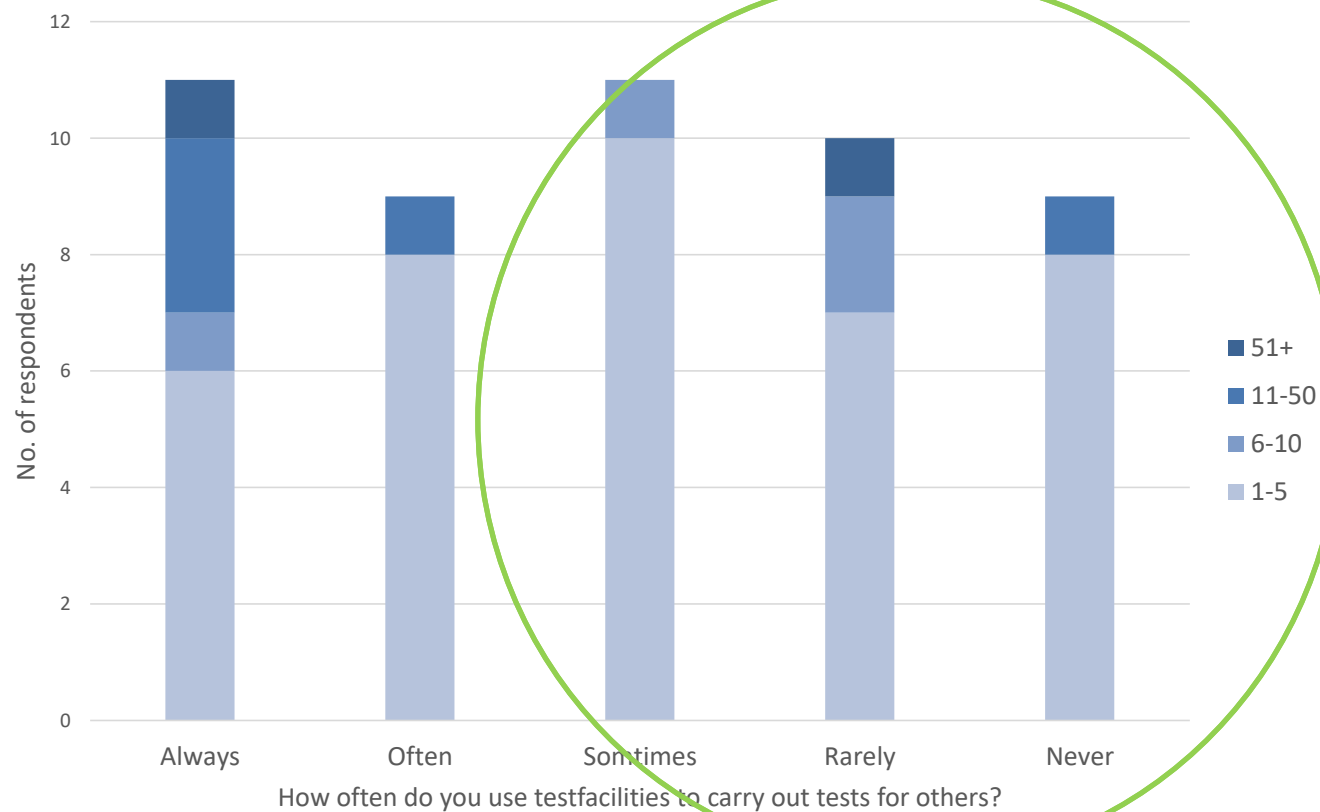
External Testing



External testing by no. of test facilities








External testing by no. of test facilities

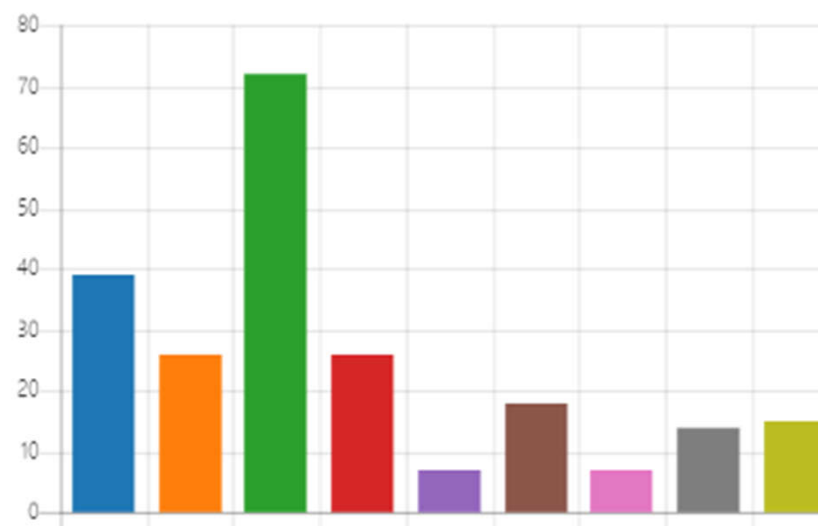


How do you find testfacilities?

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

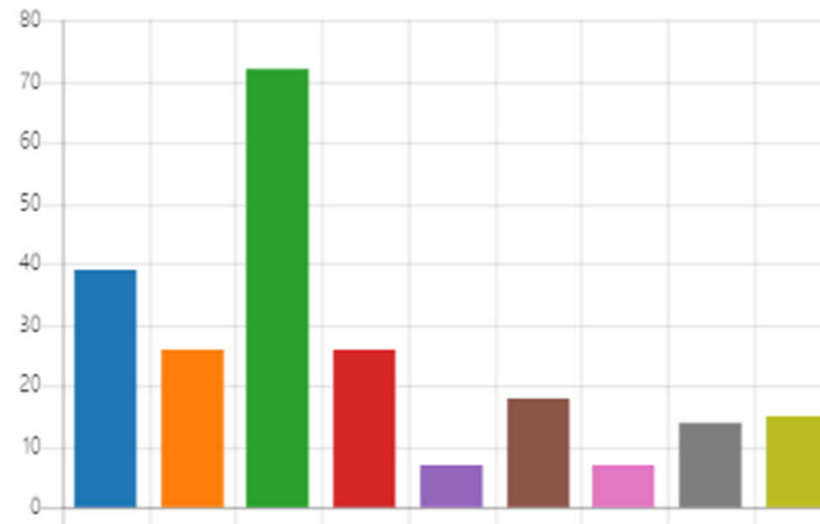


How do you find testfacilities?

How do you find new test facilities?

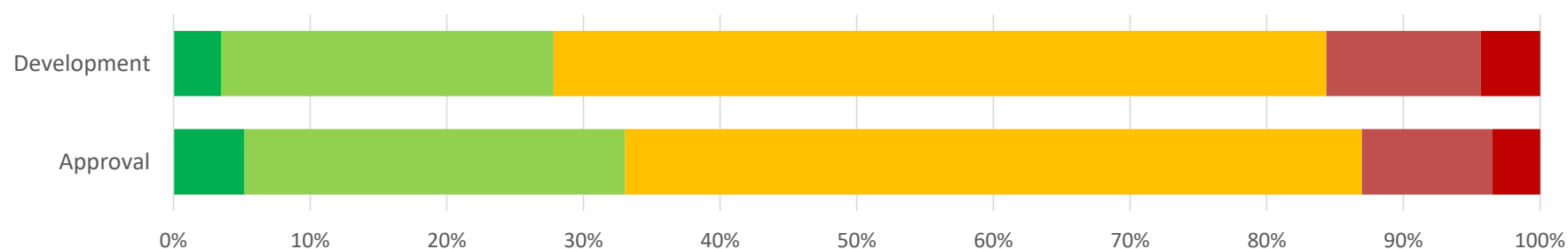
[More Details](#)

● 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

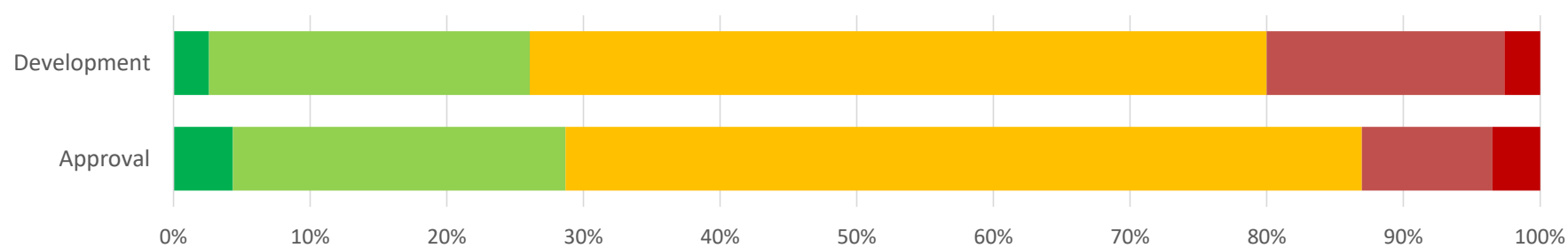


Finding and accessing

it is easy to *find* the right test facility

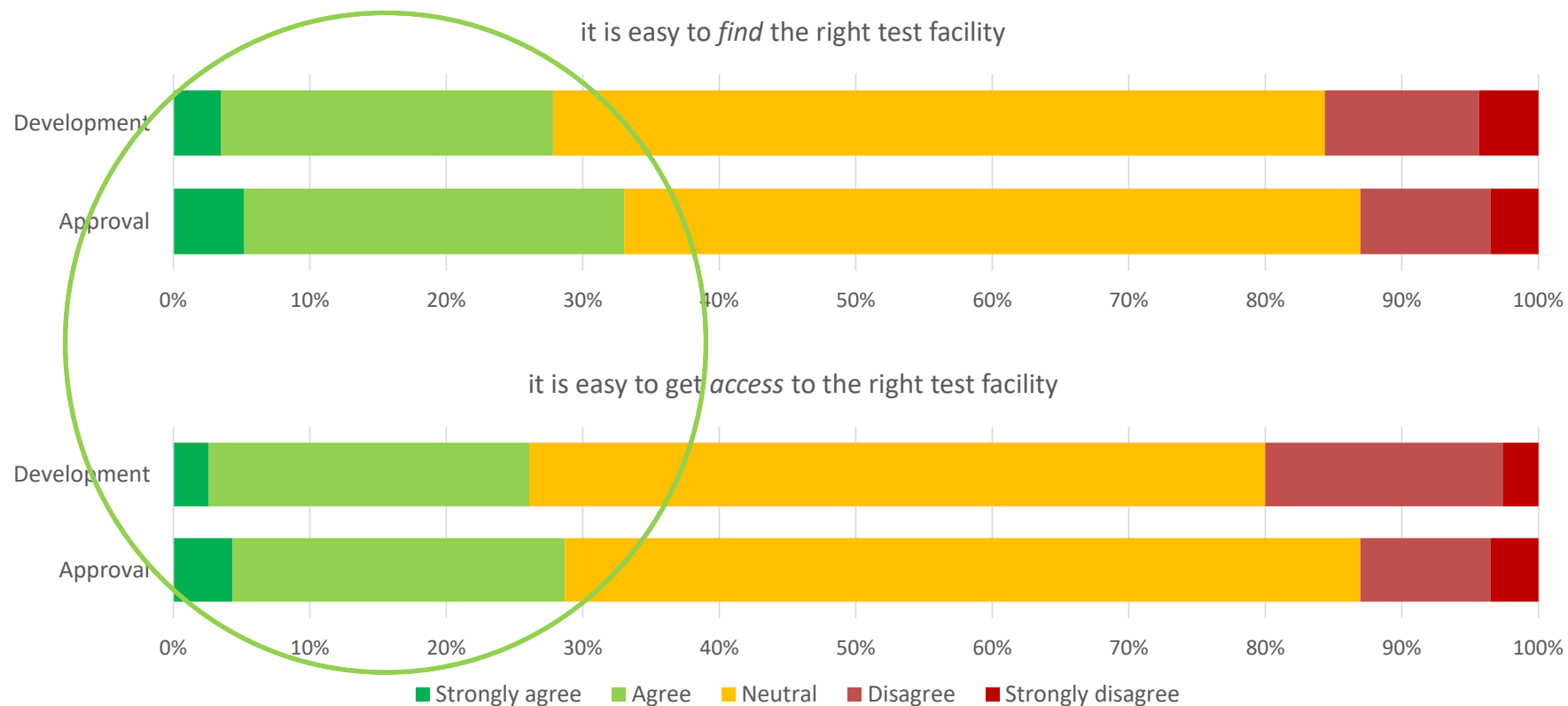


it is easy to get *access* to the right test facility

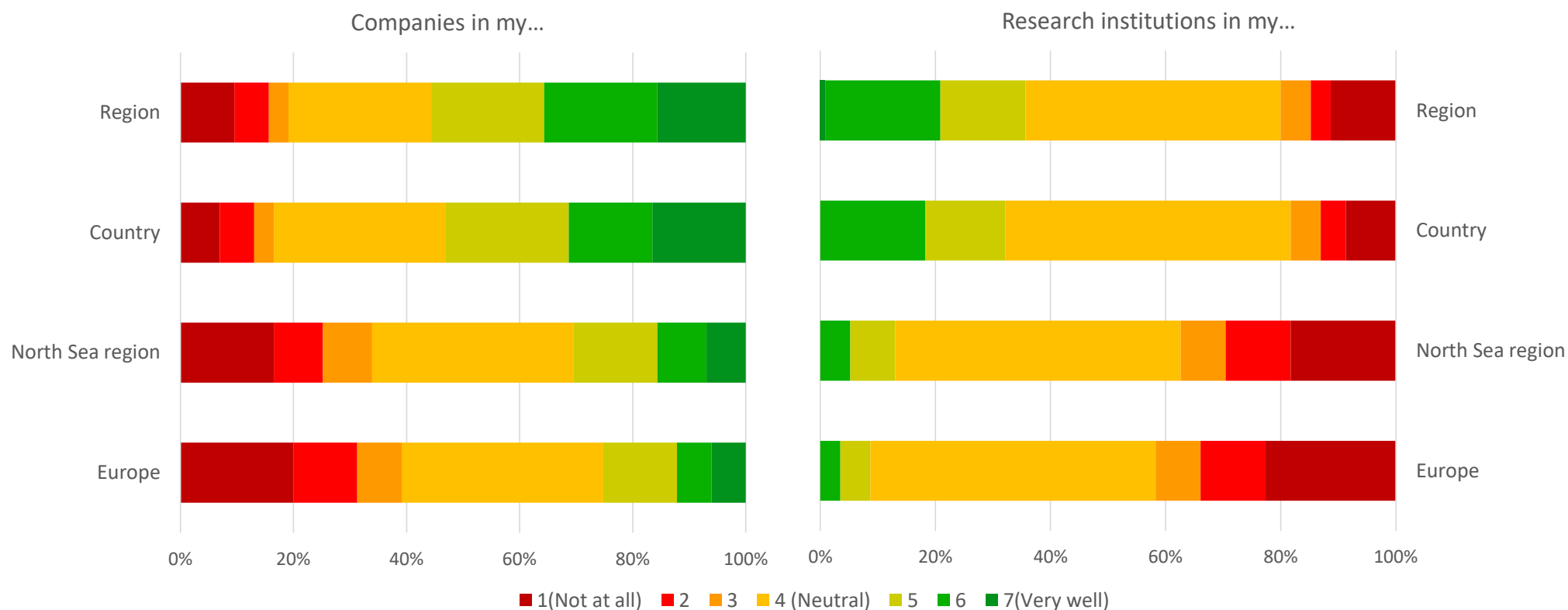


Strongly agree Agree Neutral Disagree Strongly disagree

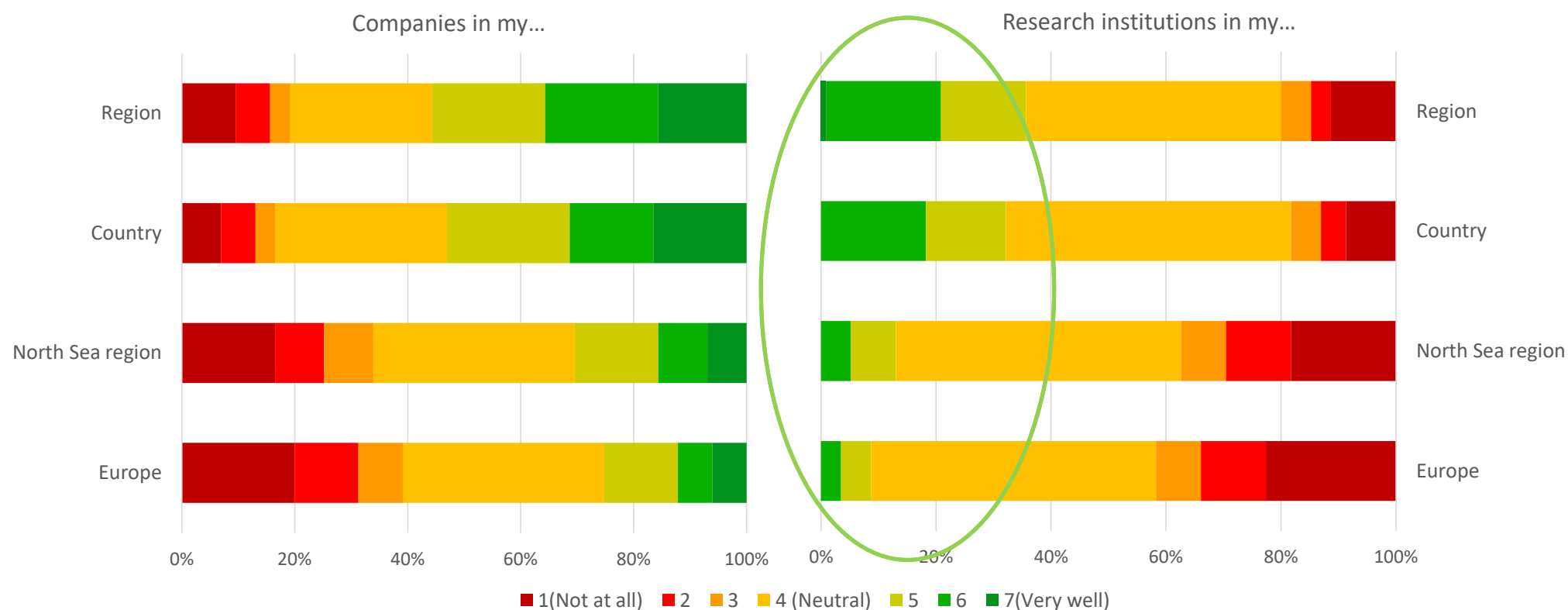
Finding and accessing



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



Members

About Us



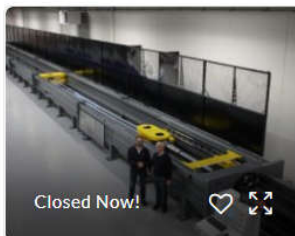
Add Listing

5 Results For Pull listings

View listings by: ☒ Grid ☐ List

Pull ☐ More Filters ☐

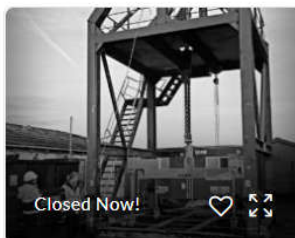
Set Search Alert ☐



35 M Test Bench

Børupvej 80, 7000 Fredericia, Denmark
To be added

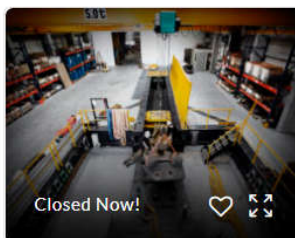
Review coming soon



Test Tower 50 Ton

Olievej 4, Esbjerg, Denmark
We can test up to 50 ton in our vertical test tower In the 50 ...

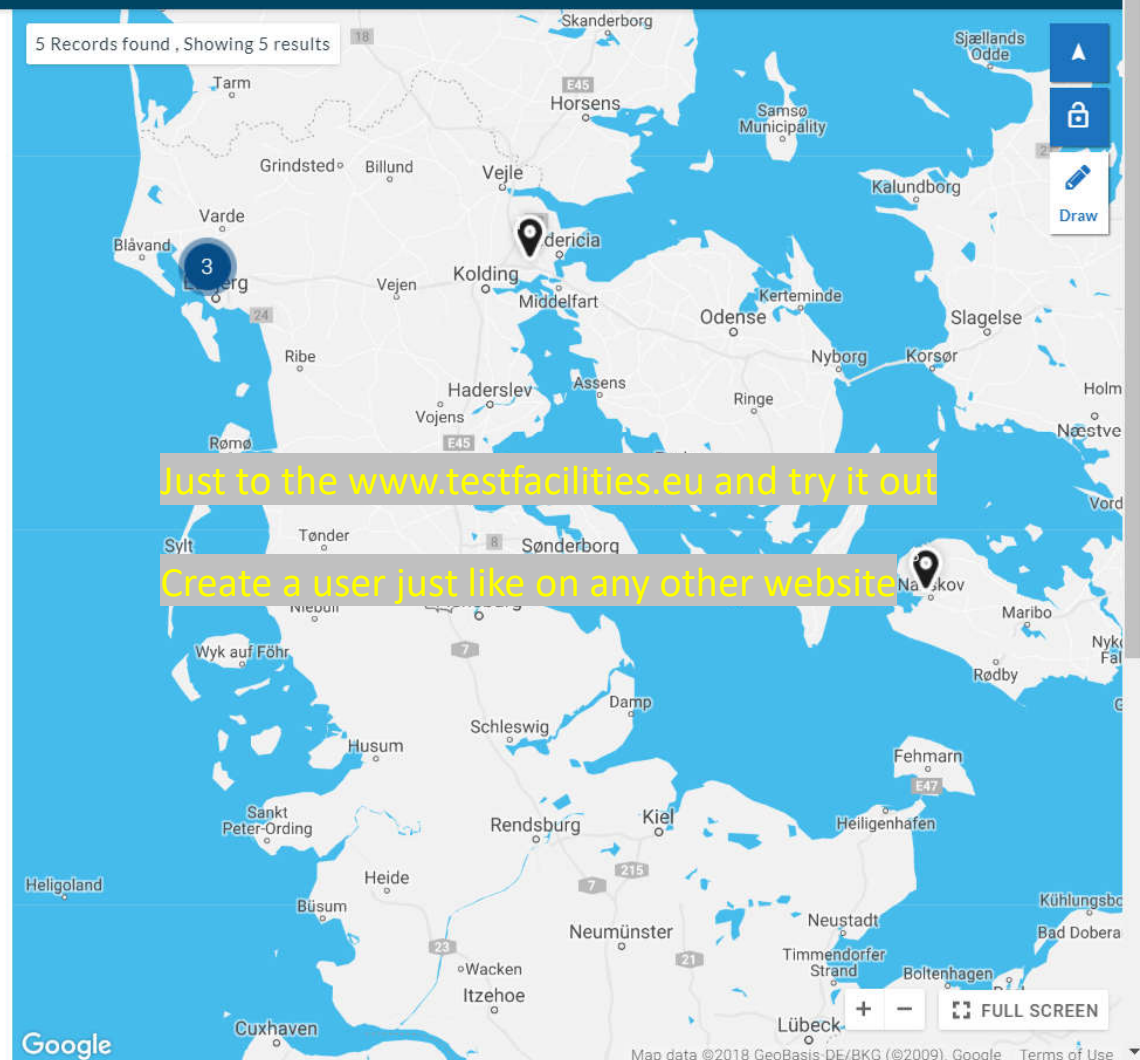
Review coming soon



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



Find What are you looking for?

Near Location



Members

About Us



Add Listing

5 Results For Pull listings

View listings by: ☐ Grid ☒ List

Pull ☐ More Filters ☐

Set Search Alert +

Test Object

Length (Meters) 0 - 100

Width (Meters) 0 - 50

Height (Meters) 0 - 25

Max Weight (Ton) 0 - 500

Test Possibilities

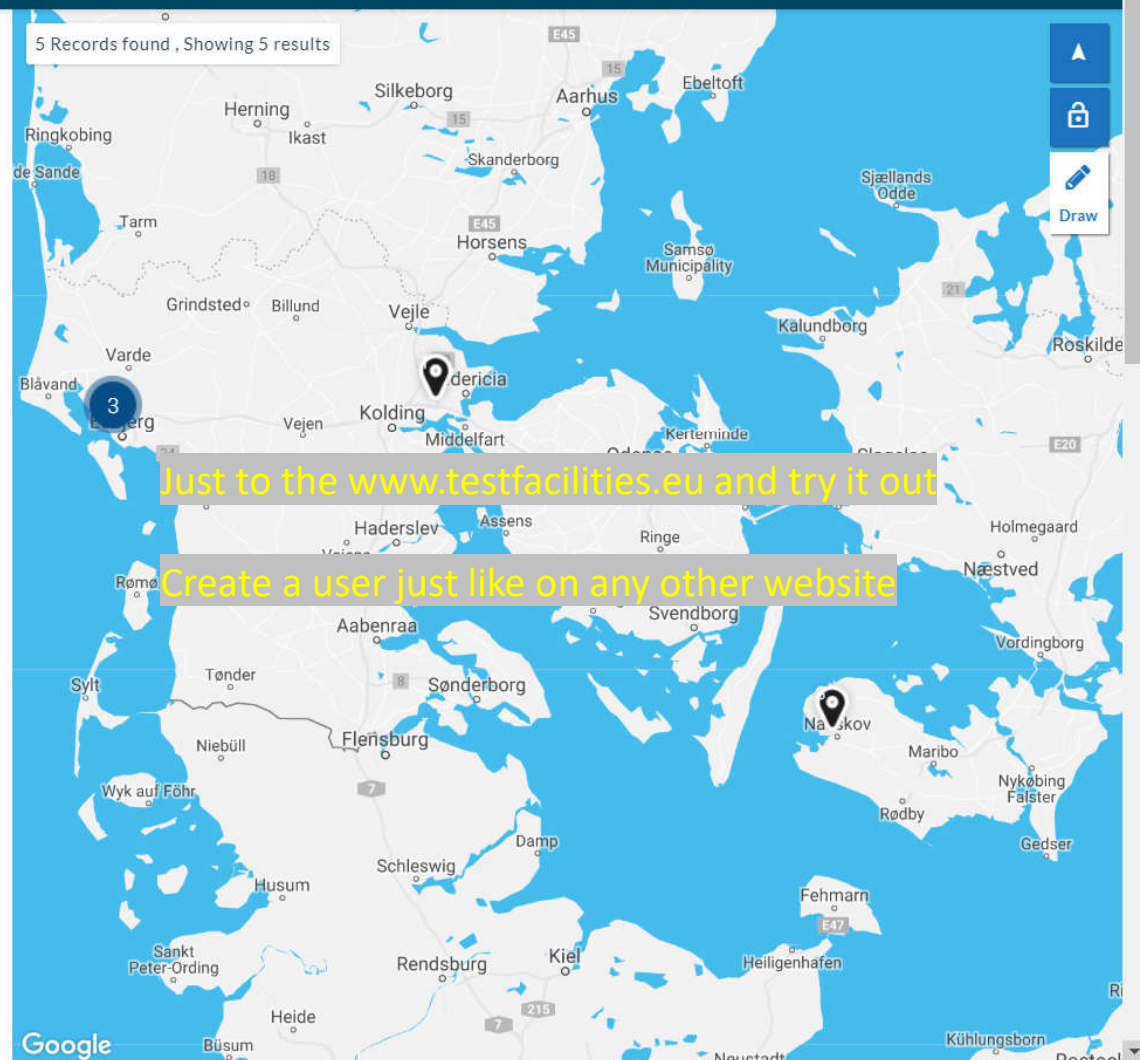
Pull Load (Ton) 0 - 3000

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 | | |

Show Results



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)

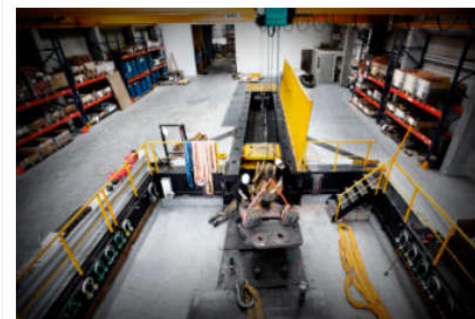
10 Max Weight (ton)

PULL LOAD (TON)

1200 Pull Load (ton)

BREAK TEST (TON)

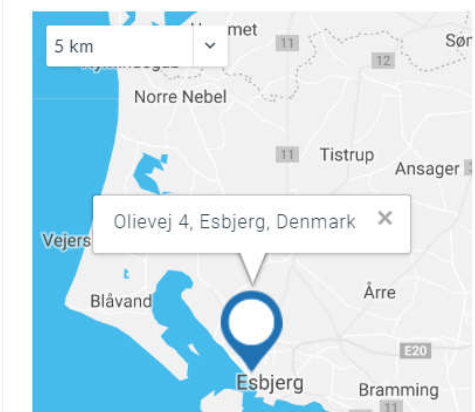
900 Break Test (ton)



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)

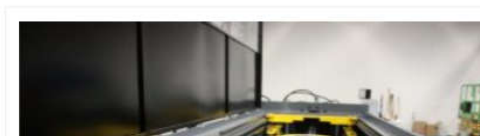
35 Length (meters)

WIDTH (METERS)

2 Width (meters)

HEIGHT (METERS)

1 Height (meters)

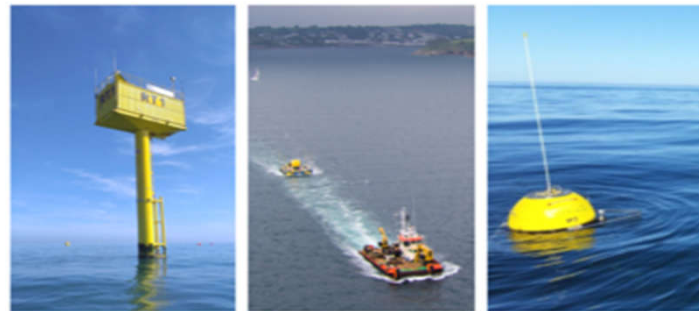


Webinars on test facilities

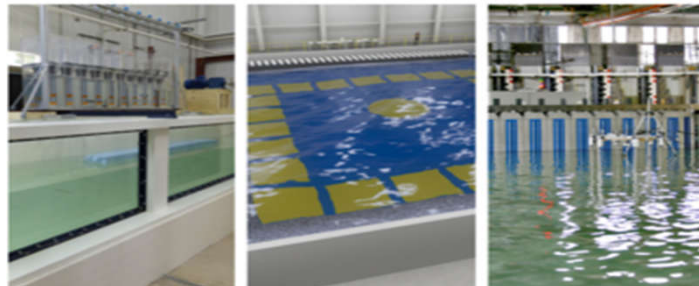
- 4 part **webinar series on test facilities** within the North Sea Region
- 3 test facilities from Inn2POWER partner countries were presented during each webinar

- 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).