



PULL OUT TESTS

PHOTOVOLTAIC FARMS
MICROINSTALLATIONS



The Company BESKIDENERGY – CONNECT™ has been conducting specialized trials within the territory of Poland and other countries of the Eastern and Western Europe and Scandinavia since 2021. We have implemented technical projects for photovoltaic farms of the total power 3 GW.

The teardown tests conducted together with the analysis of geotechnical studies allow us to obtain the full data needed to properly design and select structures for photovoltaic farms.

The DWT process involves taking a series of measurements in accordance with the expectations of investors and companies that design and manufacture PV structures.

We have measuring equipment, our own drop weight testers, means of transportation and experienced work teams.

Our company offers to perform measurement of **pullout forces, pressure force and lateral deflection**, which is in line with common standards and market requirements.

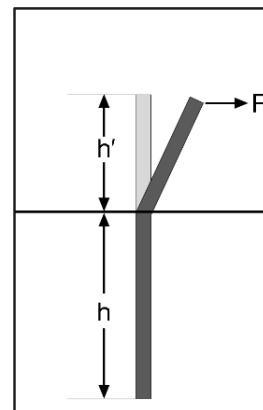
The collected data is presented in a report, which we provide to our clients after the tests are completed.

Data allows for proper design and cost reduction of PV structures and minimizes the risk of poor design selection

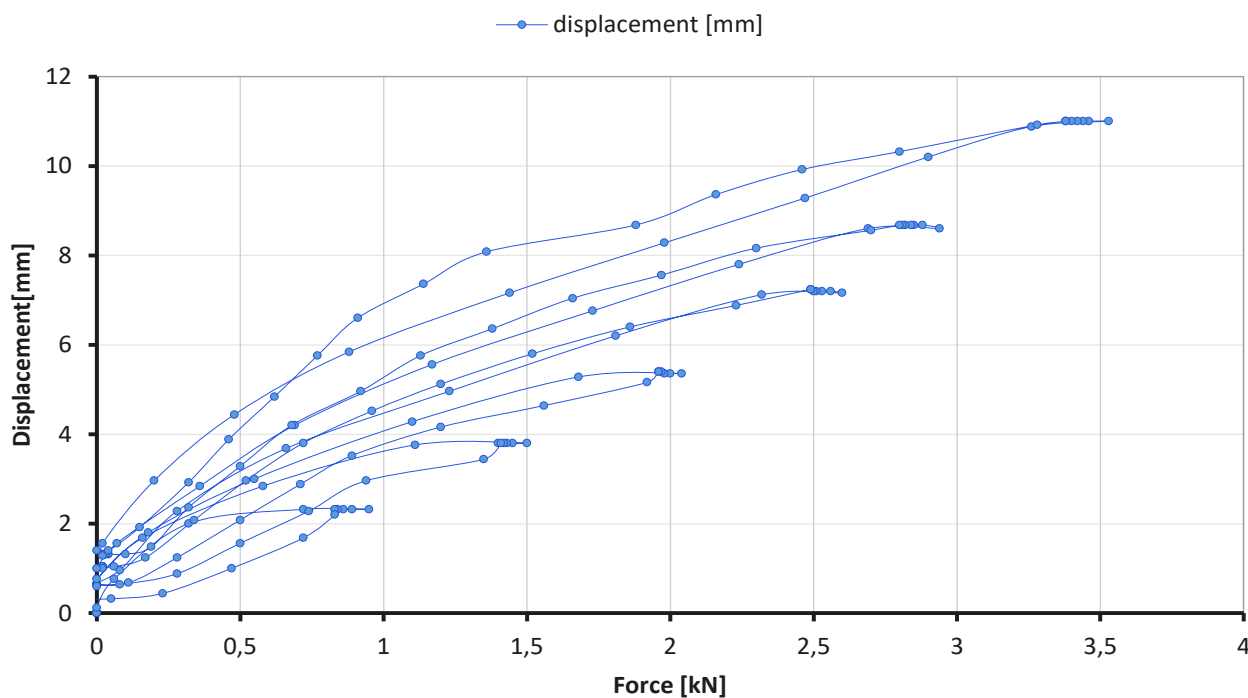




Point number	185
Coordinates(X, Y)	52.829062, 15.009057
Type of test	Horizontal force
Profile	100x50x15x3,0
Target driving depth (h) [m]	4m
Actual driving depth (h) [m]	4m
Height of force application (h') [m]	1
Force [F] obtained from calculations [kN]	2
Duration of the test [s]:	63,9
Date:	16.03.2025



Force - Displacement Chart (Lateral Test)



Load [%]	Theoretical force value [kN]	Actual force value [kN]	Lateral displacement after force application [mm]	Reading of stabilized displacement [mm]	Time to stabilize displacement [s]
25	0,5	0,72	2,24	0,64	2,00
50	1	1,11	3,60		
75	1,5	1,68	5,12		
100	2	2,32	6,92		
125	2,5	2,69	8,40		
150	3	3,26	10,68		
Comment					



We offer drop weight services as well as comprehensive installation of photovoltaic farms.

Our company has completed the installation and commissioning of 800 microinstallations and energy storage facilities on behalf of individual customers.





**WE CONSTRUCT MICRO-INSTALLATIONS FOR BOTH INDIVIDUAL
AND BUSINESS CUSTOMERS**

WE COMPREHENSIVELY IMPLEMENT THE CONSTRUCTION OF PHOTOVOLTAIC FARMS



**BESKID
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