

damage to homes may be app. PLN 45 m.

11 The storms have damaged 1,769 residential buildings,

of which 46 are destroyed completely or severely and 33

families were forced to leave their homes. The hardest

hit rural municipalities include Brusy (800 residential buildings, of which 17 are destroyed completely),

Chojnice (340 residential buildings, of which 6 are destroyed completely), Parchowo (154 residential buildings, of which 7 are destroyed severely), Dziemiany (144 residential buildings, of which 7 are destroyed

completely), Czersk (74 residential buildings, of which 6

are destroyed completely), Suleczyno (77 residential buildings), Sierakowice (110 residential buildings, of which 2 are destroyed completely), Studzienice (36 residential buildings), Lipusz (27 residential buildings, of which 1 is destroyed completely). If we assume that the cost to rebuild a house (to how it was including the

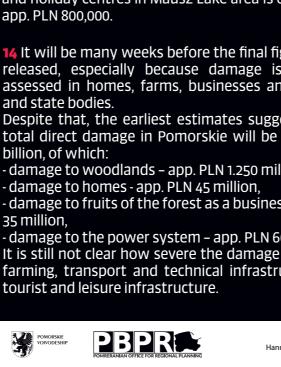
amenities, etc.) will be about PLN 400,000 on average,

the total direct damage to the 46 buildings is about PLN 18.4 m. In addition, because the extent and type of damage differs from building to building, the estimated average costs to improve 1,769 buildings are only rough estimates. With the average cost of repairs at PLN 15,000/building, the total direct damage amounts to app. PLN 26.5 million. In summary, the initial estimated

- 13 The storms in Bory Tucholskie have inflicted substantial damage to tourism, an important source of income for the local communities. Lakeside, riverside and forest holiday homes have been damaged. While some have not been hit, all the bookings had to be cancelled because entry into the forests is not allowed and the Regional Water Management Authority in Gdansk has suspended canoeing on one of Poland's most popular canoe trails - the Brda (from Zapora to Żukowo). The damage suffered by just one of the sport and holiday centres in Mausz Lake area is estimated at app. PLN 800,000.
- 14 It will be many weeks before the final figures can be released, especially because damage is still being assessed in homes, farms, businesses and municipal and state bodies.

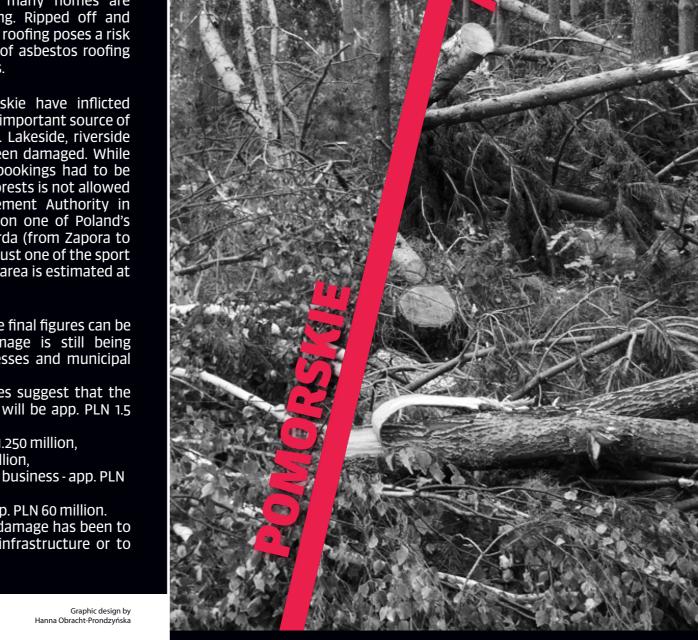
Despite that, the earliest estimates suggest that the total direct damage in Pomorskie will be app. PLN 1.5 billion, of which:

- damage to woodlands app. PLN 1.250 million,
- damage to fruits of the forest as a business app. PLN
- damage to the power system app. PLN 60 million. It is still not clear how severe the damage has been to farming, transport and technical infrastructure or to







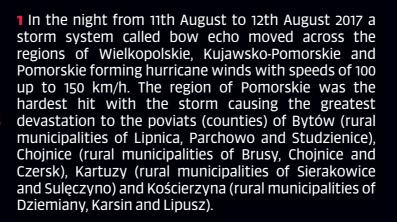


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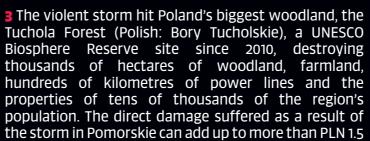


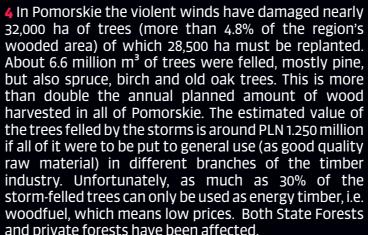


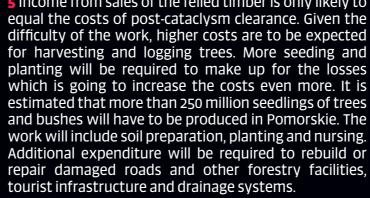




- 2 The storms left five people dead and more than 50
- and private forests have been affected.
- 5 Income from sales of the felled timber is only likely to
- 6 The felled trees must be transported out of the







forests as soon as possible which according to the State Forests (in Polish: Lasy Państwowe) is within a dozen months or so. New woodland can be planted as the clearance progresses. The earliest planting can begin in the spring of 2018. The hurricane-devastated areas will take the next few years to be planted. This means intensive efforts for forestry services and forestmanagement organisations over the next few



20% OF THE BORY 7 Nature has suffered great losses as well. The Bory





OF THE FOREST HAD TOTALLED PLN 35 MILLION



OF HECTARES

9 The storms have left about 2,500 farms and at least several thousands of hectares of crops damaged. 2,074 farm houses, including livestock buildings and storage have been destroyed or damaged. The devastation includes greenhouses, polytunnels and farming machines and equipment. The damage suffered in farming is still being estimated.

What it also means is less income in the years to come

for local sawmills and forestry companies possibly

Tucholskie National Park has been hard hit by the

storms with app. 20% of its area damaged (app. 1000 ha)

half of which badly. Other designations have not been

spared either, including the Tucholski Landscape Park,

Wdzydzki Landscape Park, Zaborski Landscape Park,

Natura 2000 birds sites (Bory Tucholskie), Natura 2000

habitat sites (Wdzydzkie Lakes, Brda River Outwash Plain, Młosino-Lubnia) and protected landscape sites

(Chojnicko-Tucholski, fragment of Bory Tucholskie, Gowidliński, Lipuski) and numerous nature reserves.

8 Because felled and crushed trees are a danger to public

safety and increase the risk of fire, Pomorskie's hardest

hit forest districts (about 35% of the region's area and

about 45% of the region's woodlands) have banned

entry into the forests which for some of them may

continue over the next few months. This may mean

additional losses to the local communities who rely on

forest fruit and mushroom picking for additional income during the summer and autumn. In 2016 across the region sales of fruits of the forest had totalled PLN 35

million. Because the majority of these trading

organisations and processing plants are in the

cataclysm-affected area (especially Brusy), the local

communities stand to lose quite a lot in terms of

income. Over the next few years this may increase

several times as a result of the time needed for

recultivation and regrowth.

leading to local problems in the labour market.

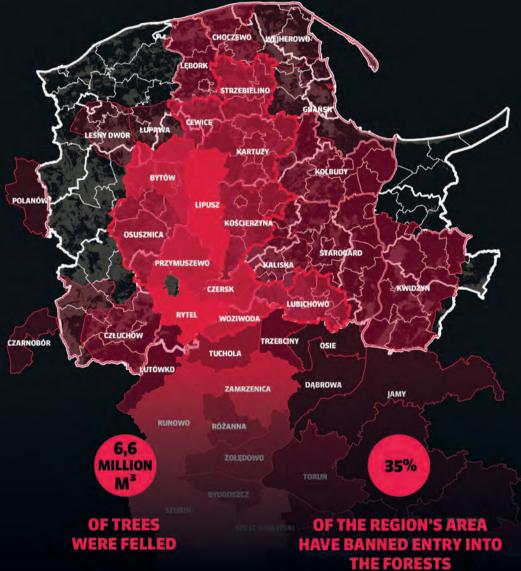


10 The violent storms and falling tress have broken power lines. According to the Ministry for Energy across the country the damage to power lines totalled between PLN 150 m and PLN 200 m. Many of the medium and low voltage lines must be built from scratch. According to the Gdansk-based Regional Centre for Crisis Management, Energa Operator and Enea Operator have had 1,215 stations and about 200 km of medium and low voltage lines and about 20 km of high voltage lines damaged in Pomorskie; this includes 220 kV Gdańsk-Żydowo, 110 kV Chojnice – Brusy, 110 kV Chojnice Kościerska – Tuchola. With an estimated average cost to repair/rebuild (a very rough estimate) 1 km of aerial power lines (the costs will vary depending on the scope of work and type of line: low, medium, high or highest voltage) will be about PLN 250,000/km of network. The total expenditure to rebuild the lines will add up to at least PLN 55 m. The costs to rebuild the transformer station are separate from this. All in all a rough estimate of the total direct damage to the power system is at least PLN 60 m.



ESTIMATED DAMAGE TO WOODLANDS











ESTIMATED DAMAGE TO HOMES



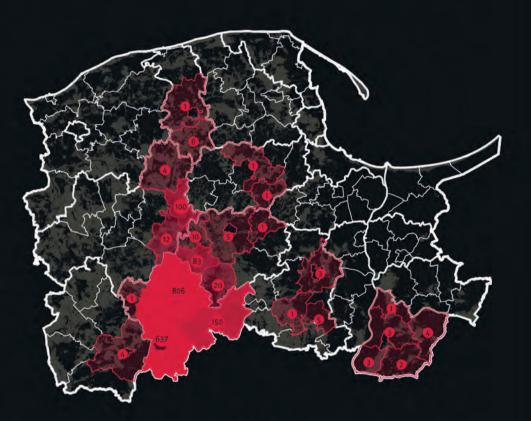


RESIDENTIAL BUILDINGS HAVE BEEN DAMAGED





FAMILIES WITHOUT THE ROOF OVER THE HEAD



APP. PLN 45 M

ESTIMATED DAMAGE TO HOMES









