

TURBINBYGG

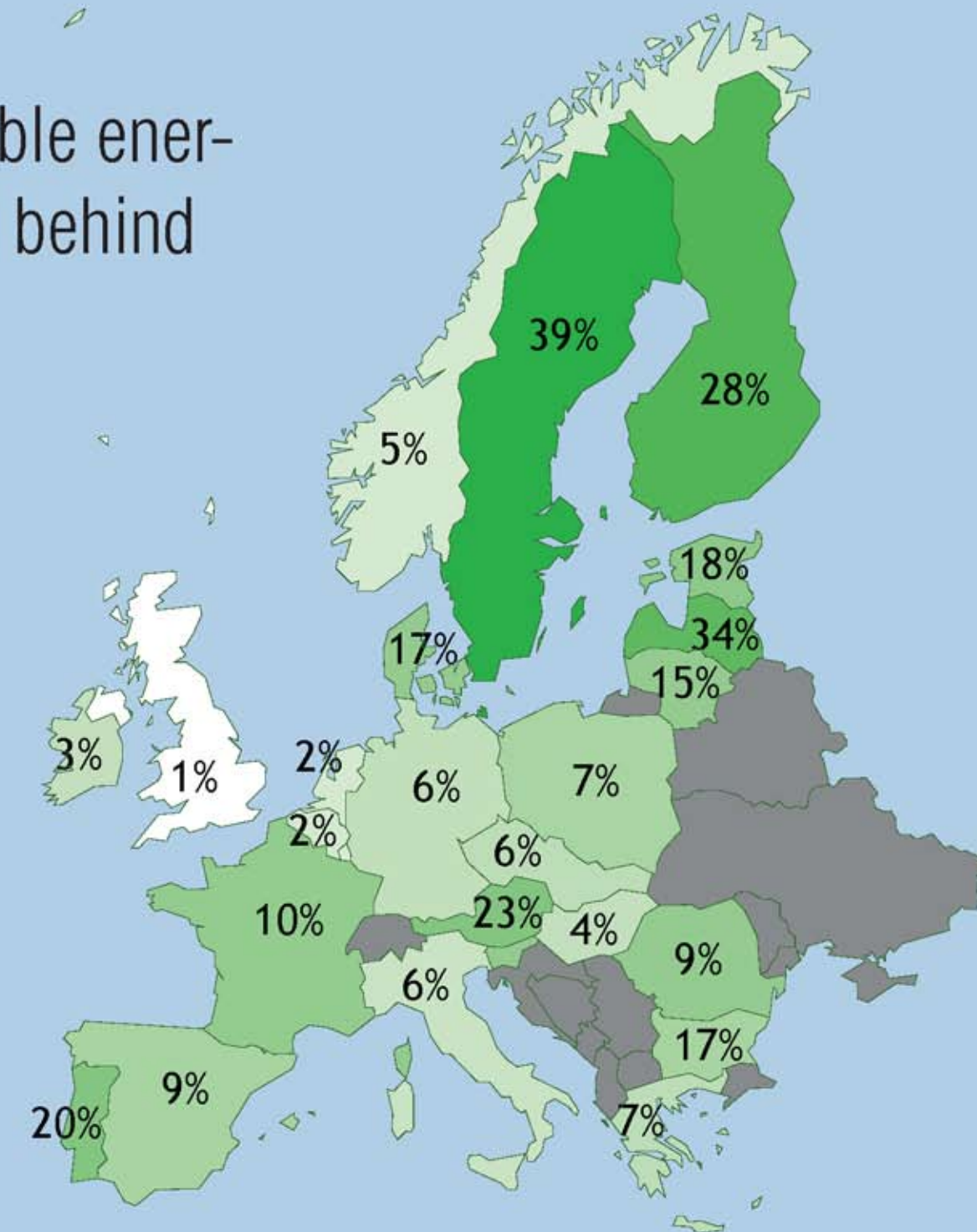


2



The EU Commission has committed to deriving 20% of the EU's final energy consumption from renewable sources by 2020.

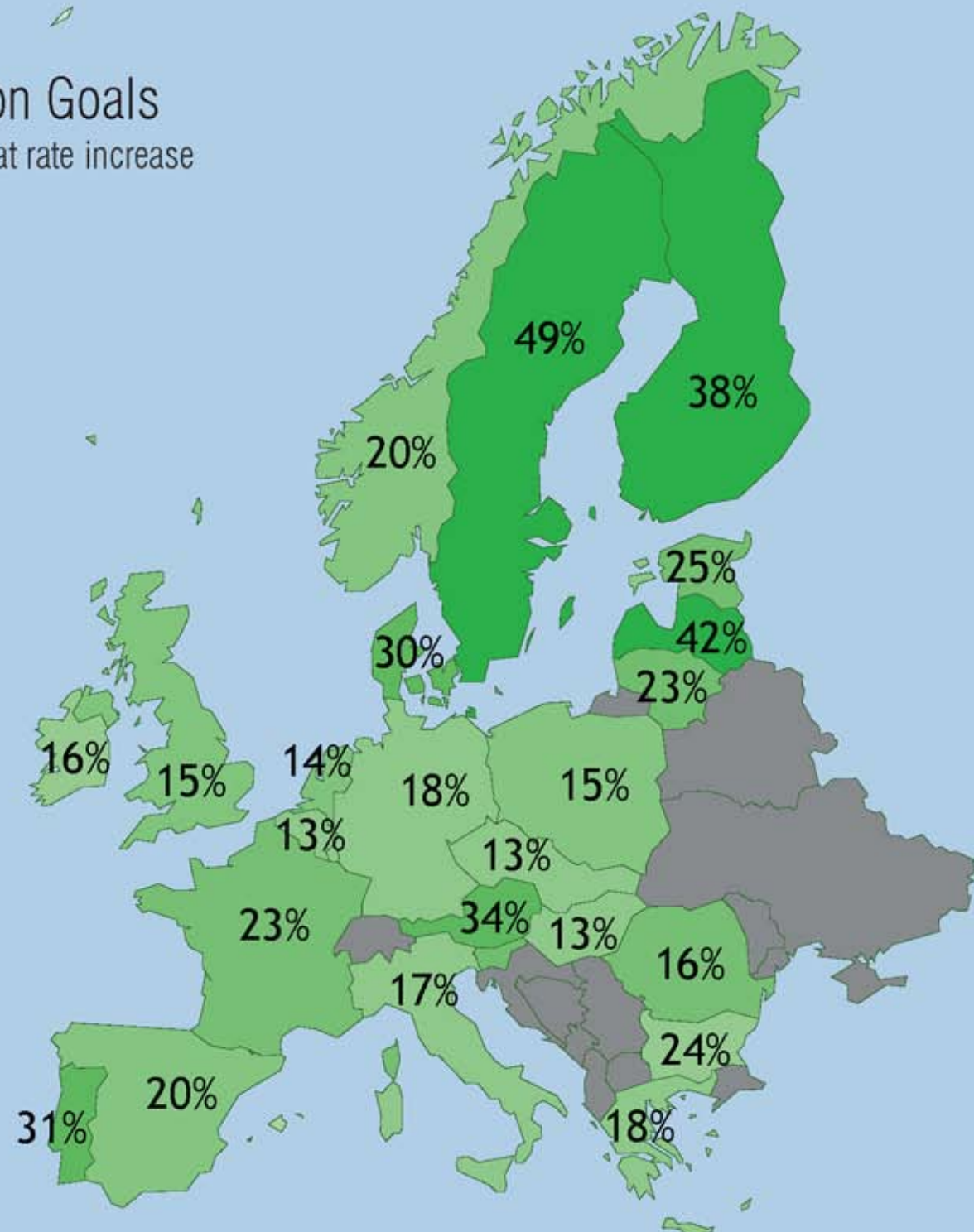
Norway's current renewable energy yield is only 5%, well behind our neighbors!



2020 Adjusted Energy Production Goals

Based on existing renewable energy, GDP, and flat rate increase

With a modest goal of meeting the average 20%, Norway must quadruple its production.



Not only is Norway obliged to meet these goals, but it carries the potential to create a surplus of Europe's newest tradable good: renewable energy.

Where does this potential lie?

Norway's weather, geography, resources, and technology are best suited for **wind power**:

Norway lies in one of the **windiest** regions of Europe.

Wind Speed (m/s)

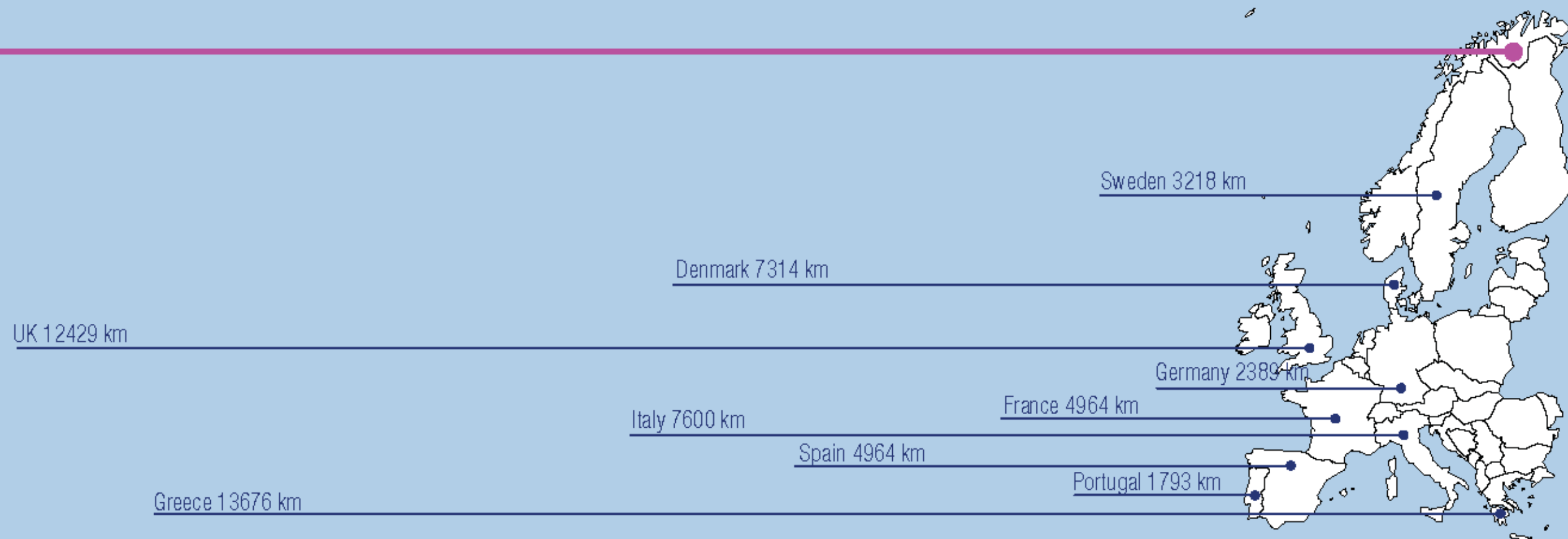
- 5 to 6.7
- 6.7 to 8.5
- 8.5 to 9.6
- 9.6 to 10.3
- 10.3 to 11.41



Coastline

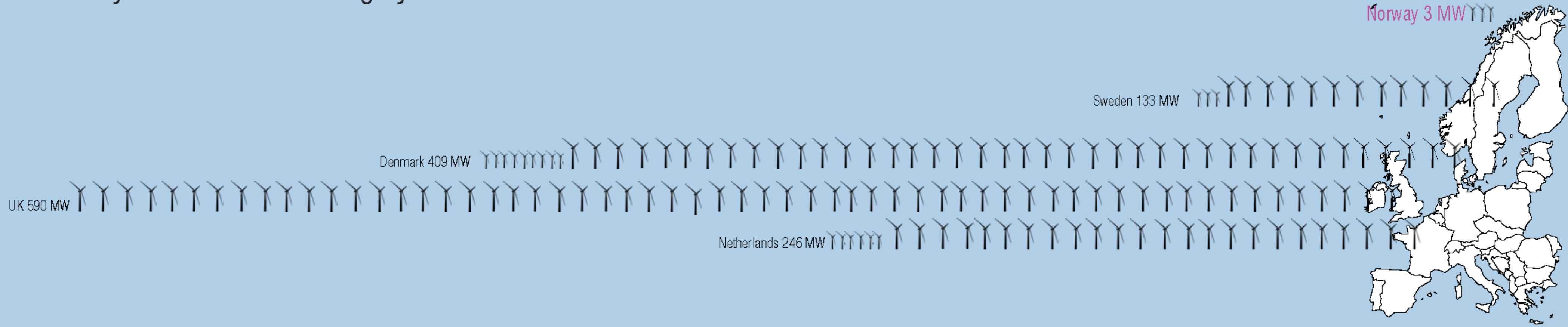
Norway has Europe's **longest coastline**, 25,148 km.

Norway 25148 km



Saturation

Yet Norway's coast remains largely **unsaturated**.



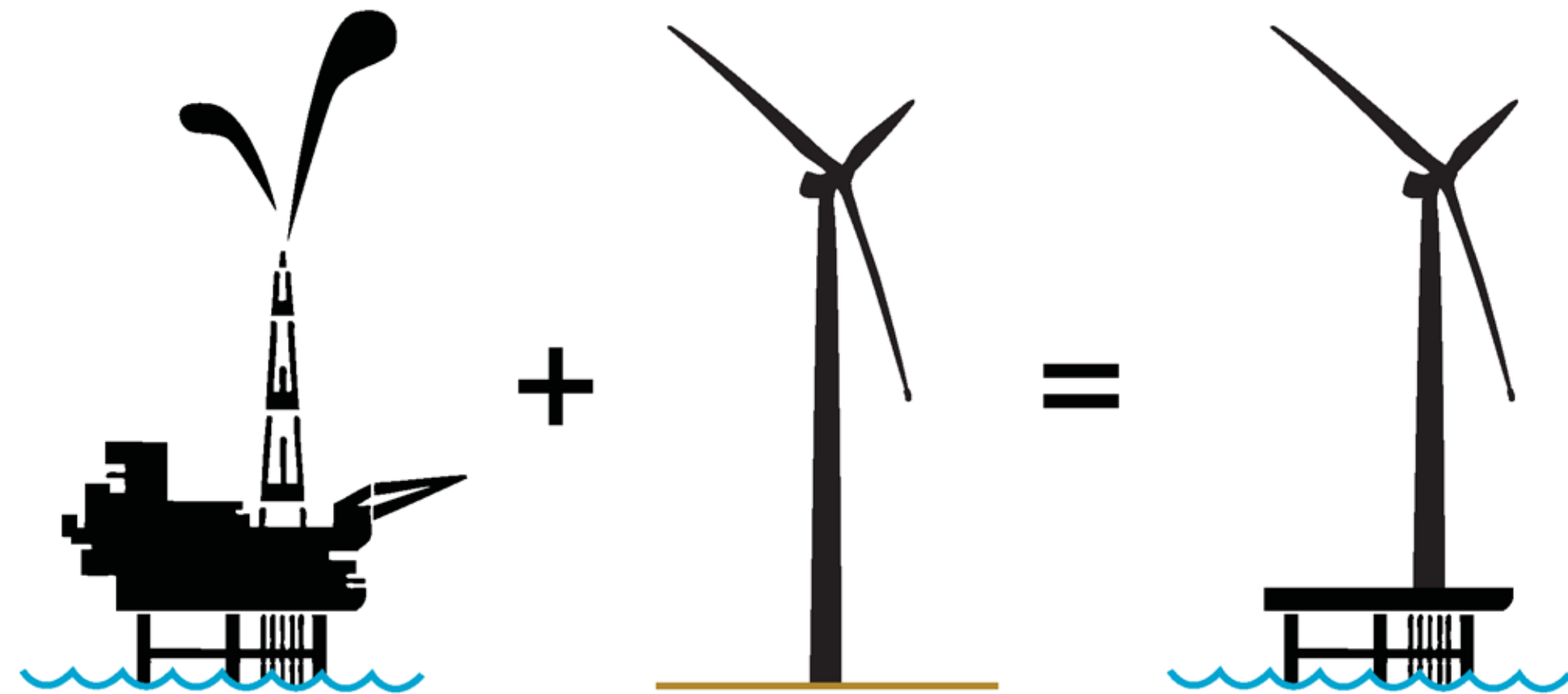
Hydropower

Norway produces 50% of Europe's hydropower.



Hydropower is Wind power's best friend: when the wind blows, the dams are stopped to accumulate water, and when the wind stops, the dams are released to compensate the energy.

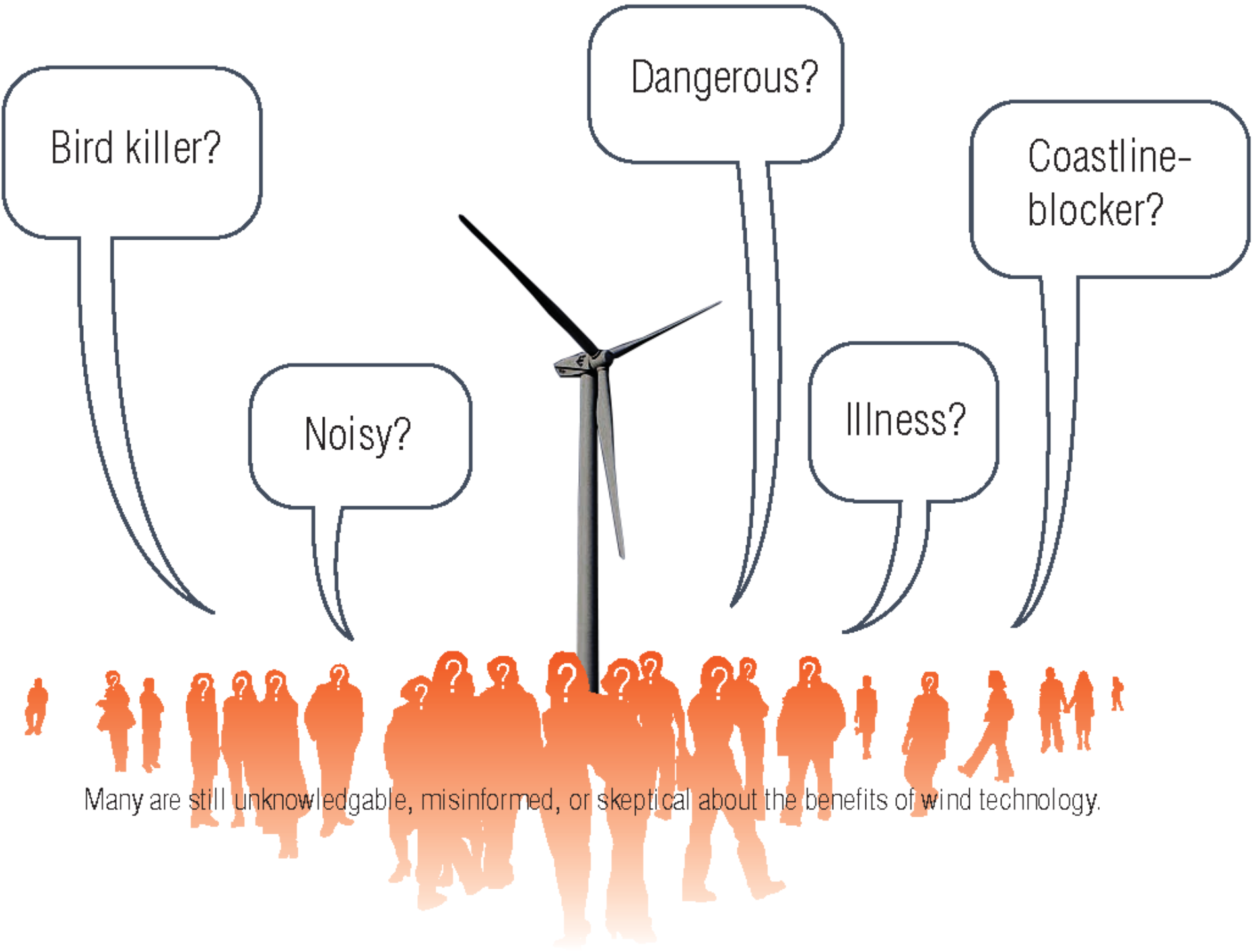
Offshore Expertise



Norway already possesses vast expertise of offshore installations from its experience in offshore drilling.

Highest Wind Speed
Longest Coastline
Least Saturation
Hydropower Partnership
Offshore Expertise

With so much potential, why is Norway so far behind?





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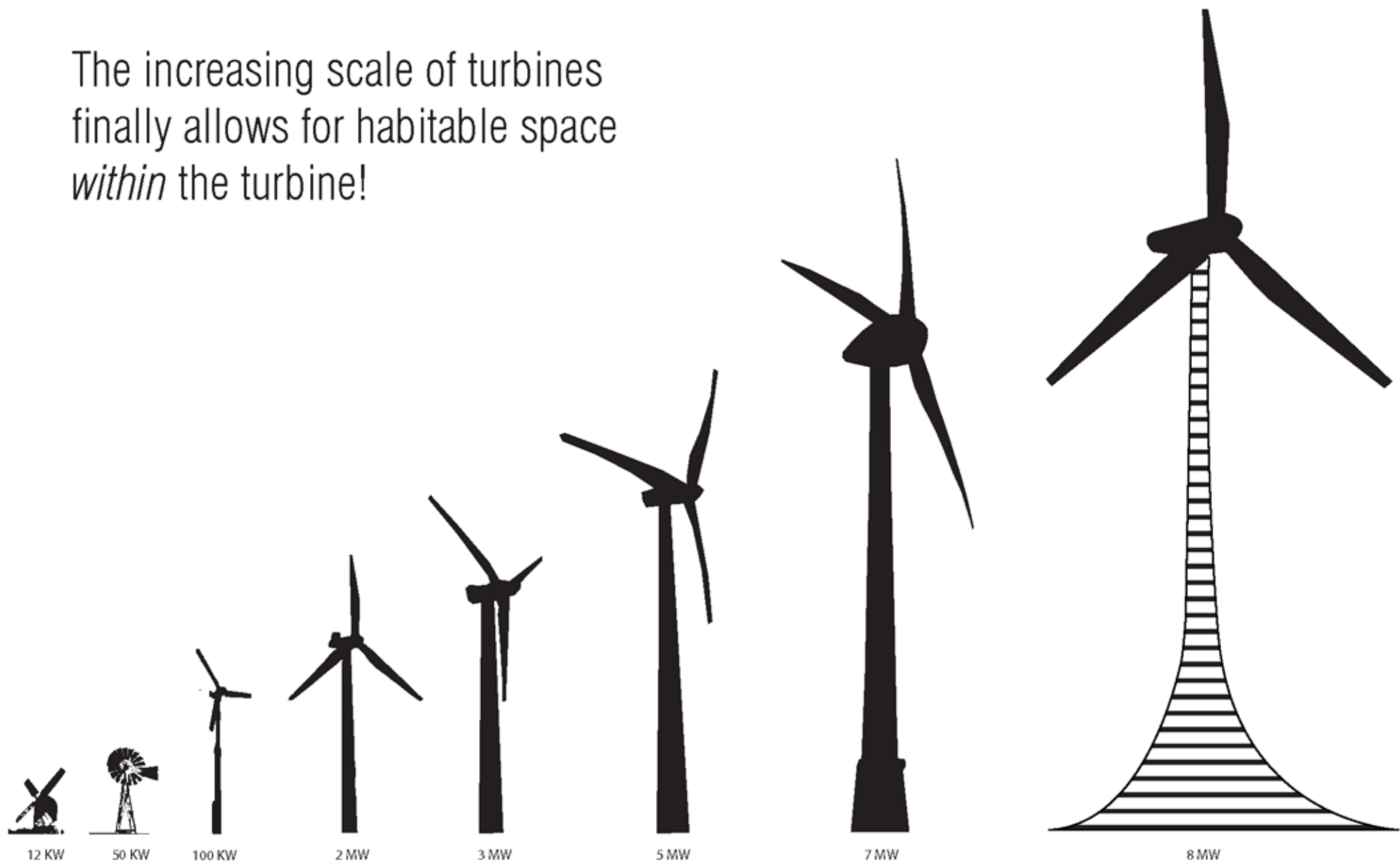
And without the public's support, the government is unable to implement wind technology.



"On June 15, 2008, as part of European Wind Day, Over 100 Wind Farms opened to the public with the intent to educate, allowing people to view the installations closely. The public strongly endorsed wind energy through enthusiastic participation in all events, in every nation"

The public is more likely to understand the benefits and support wind energy if they are able to experience it firsthand.

The increasing scale of turbines finally allows for habitable space *within* the turbine!



Furthermore, offshore wind turbines are magnetic and scenic: a huge potential for tourism.

Why not combine TOURISM with TURBINES?



Small eco-footprint!

Relatively quiet!

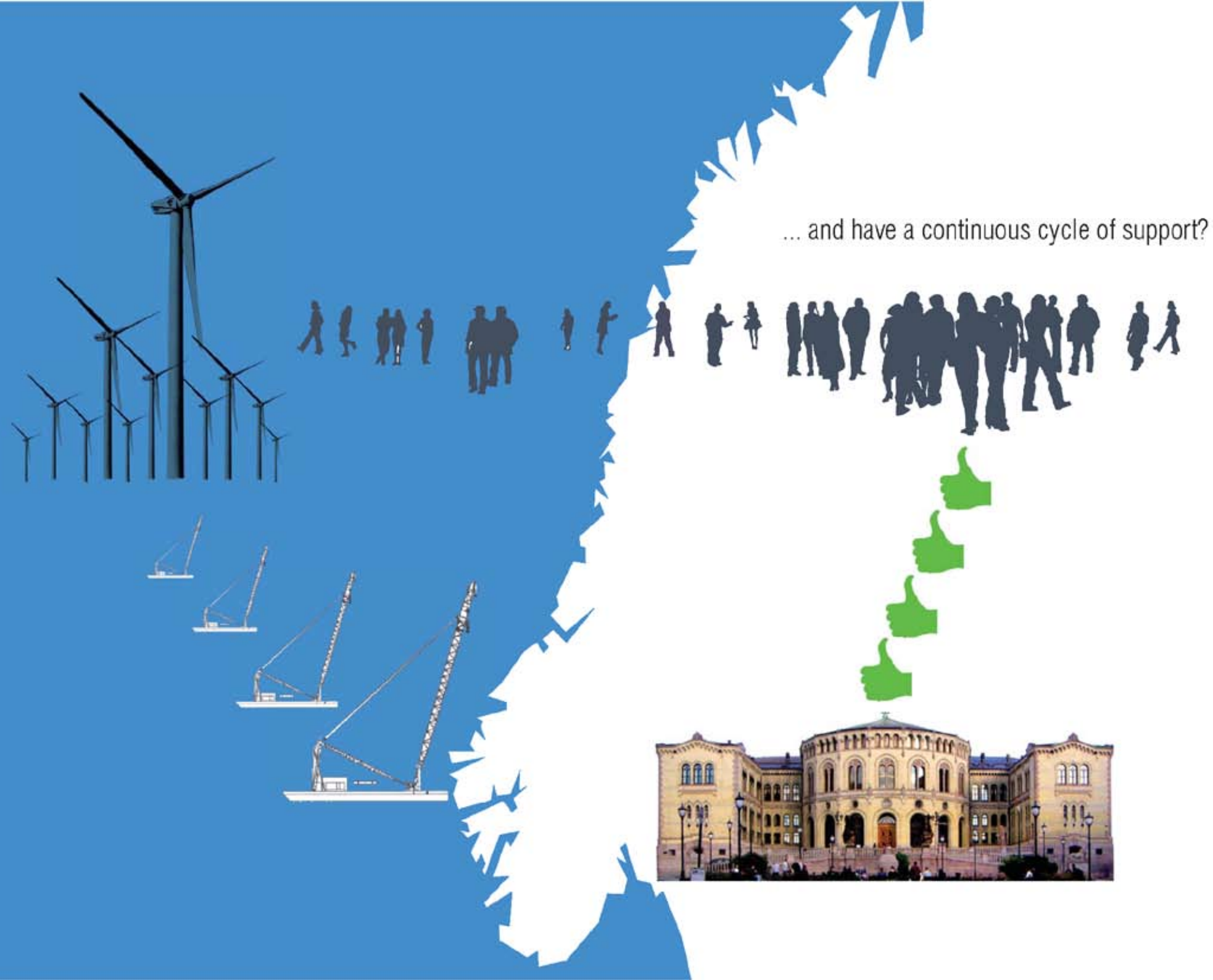
It's safe!

Harmless!

Not visible from the city!



To address the concerns of the public...



Norway's Energy Council has already begun speculating on an ambitious chain of wind parks totalling up to 8000 MW of capacity.

The cost of this 220 billion Norwegian kroner venture can be financed by a mere 6 months of Norwegian oil output.

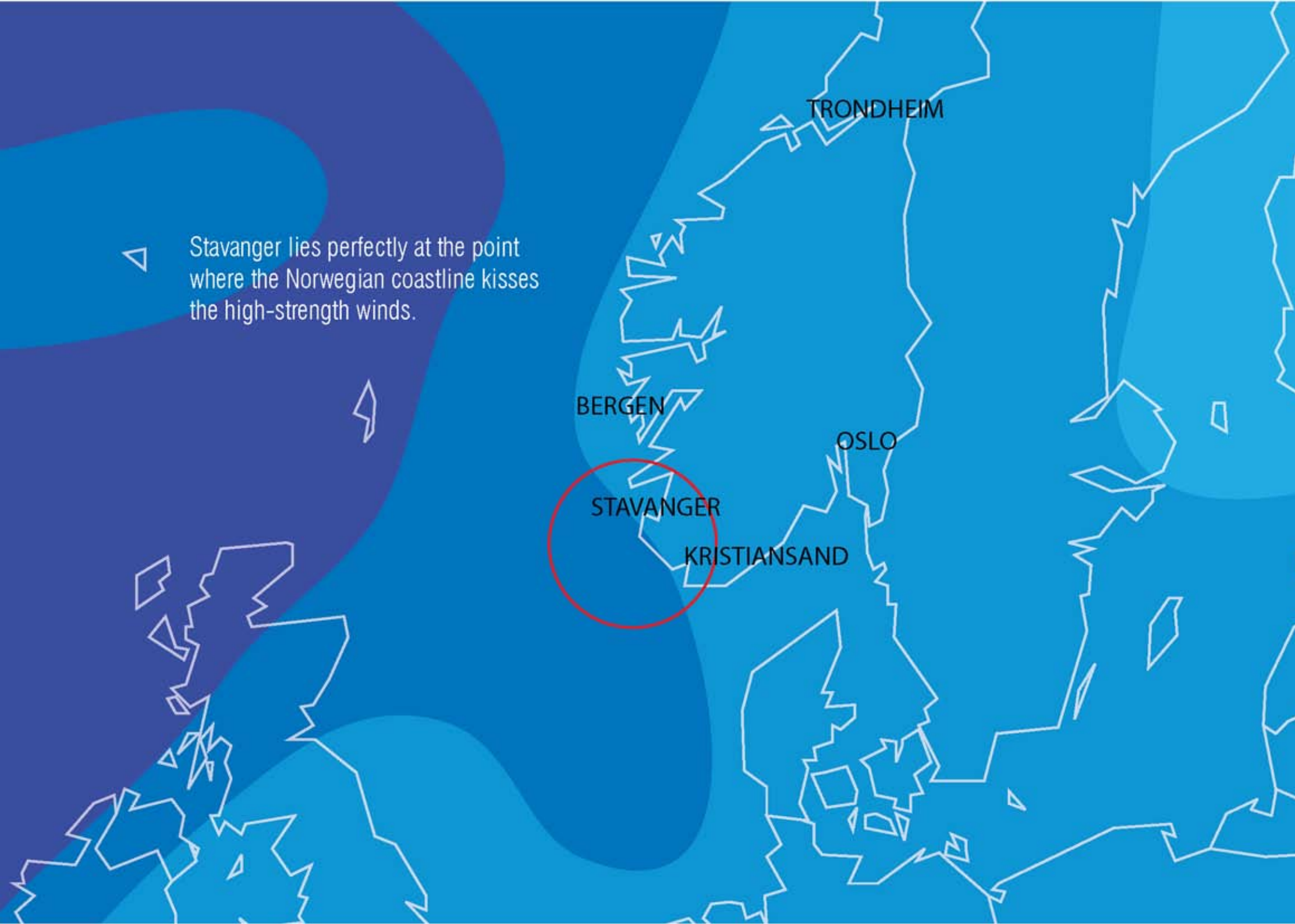
What Norway needs now is a flagship wind farm, to announce, celebrate, and promote the country's newest investment.

TURBINBY STAVANGER

“The Turbine City” integrates a hotel, spa, and museum with an offshore wind farm. Only 1 MW from one of these 8 MW turbines is enough to power the entire facility.

By bringing tourists, sailors, offshore oil-workers, and cruiseships to Turbineby, people are able to experience the advantages and the spectacle of turbines firsthand, thereby increasing awareness and support.



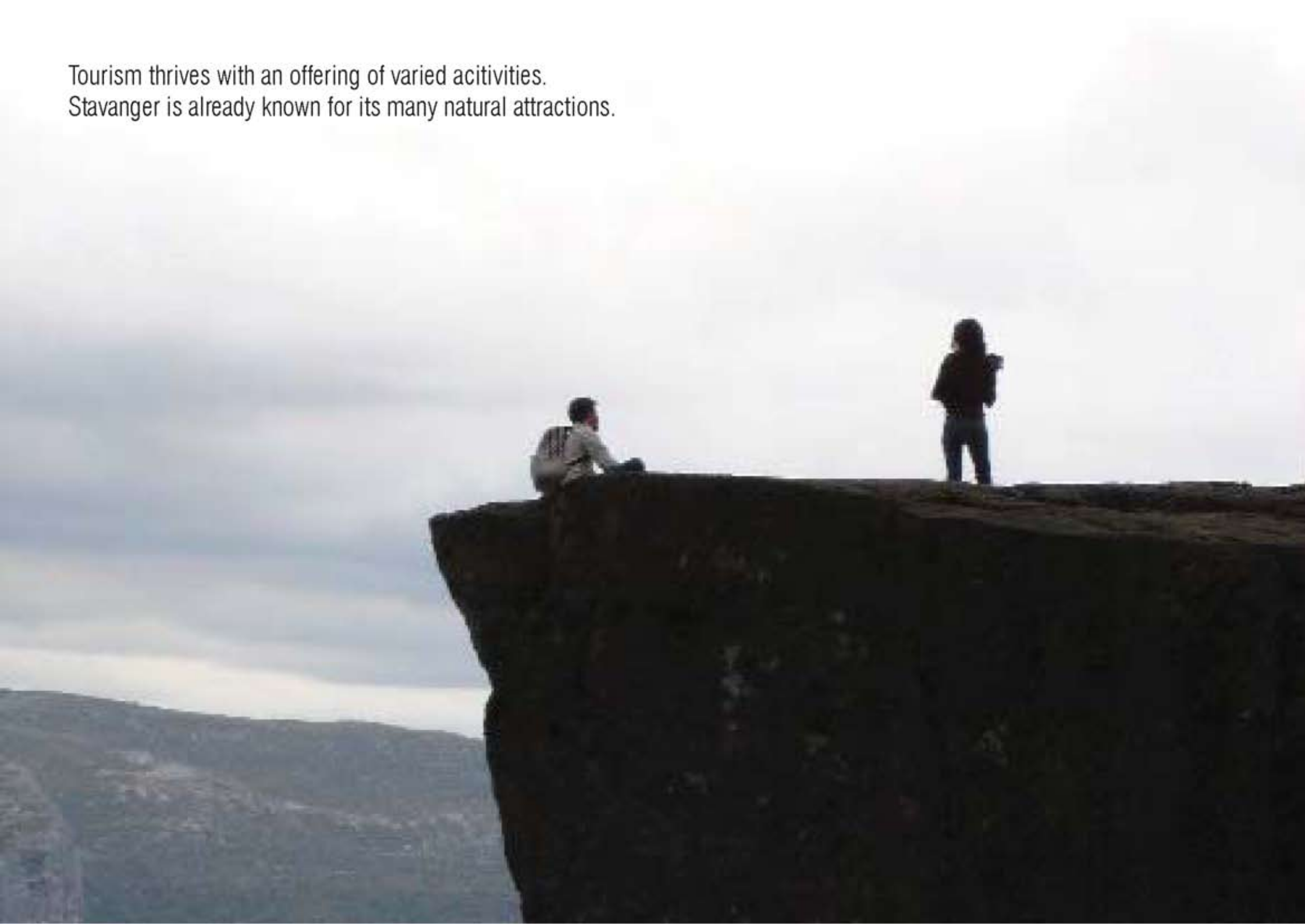


Tourism depends on population, and Stavanger is the fourth largest city of Norway with a population of 117,315.

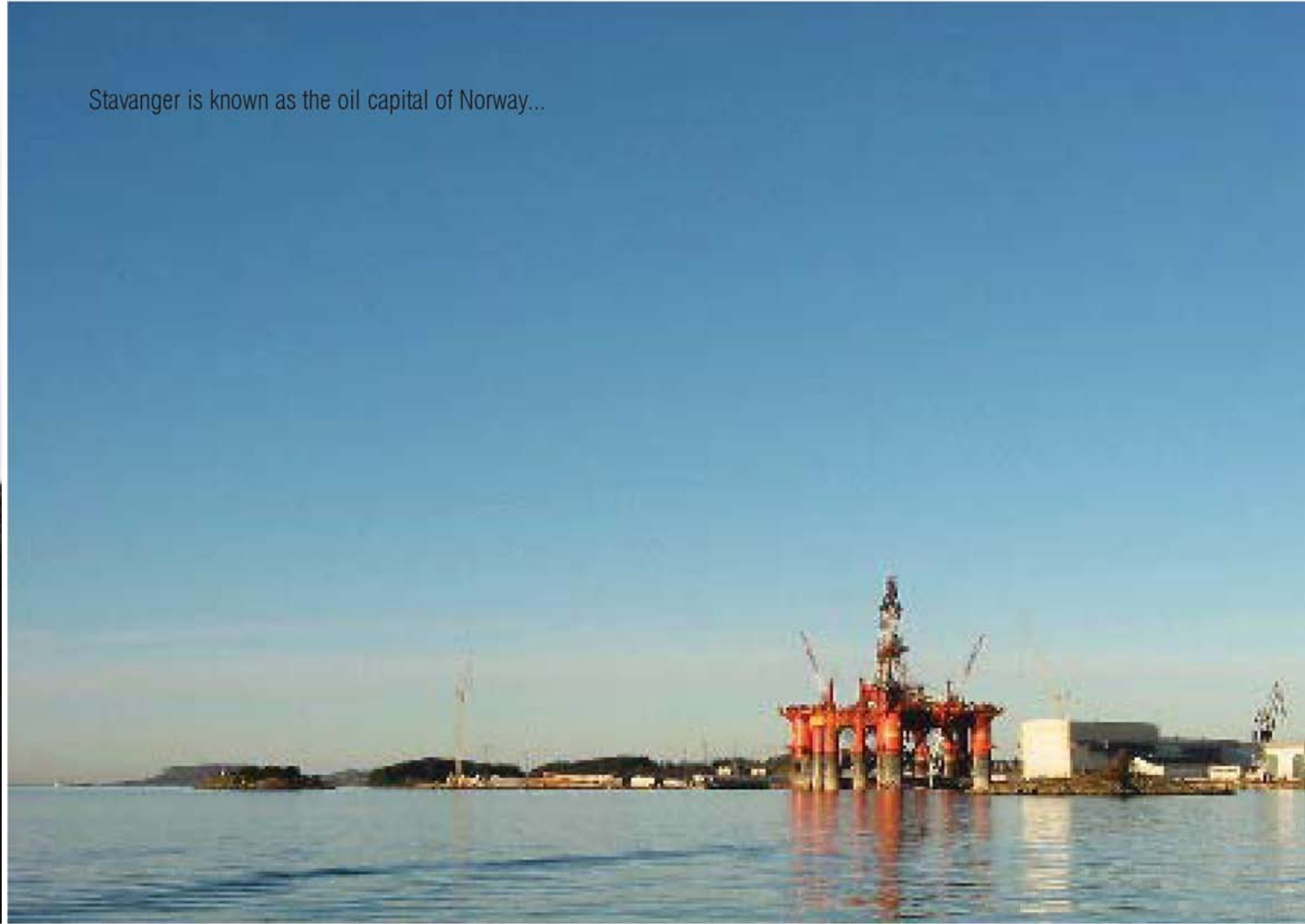
Tourism also relies on connectivity, and Stavanger's airport is a major transportation hub with direct flights to major cities both within Norway and the rest of Europe.



Tourism thrives with an offering of varied activities.
Stavanger is already known for its many natural attractions.



Stavanger is known as the oil capital of Norway...



...but it could use this economic momentum to rebrand itself in time for the “sustainable revolution,” to create a landmark among the ranks of the architectural symbols of the world...



Stavanger



Agra



Rome



Sydney



Moscow



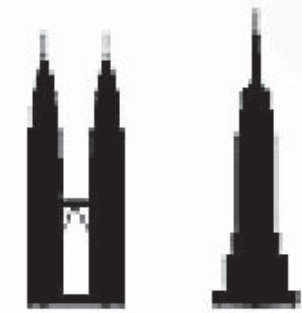
NYC



D.C.



Paris



Kuala Lumpur



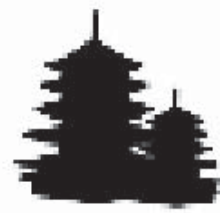
NYC



London



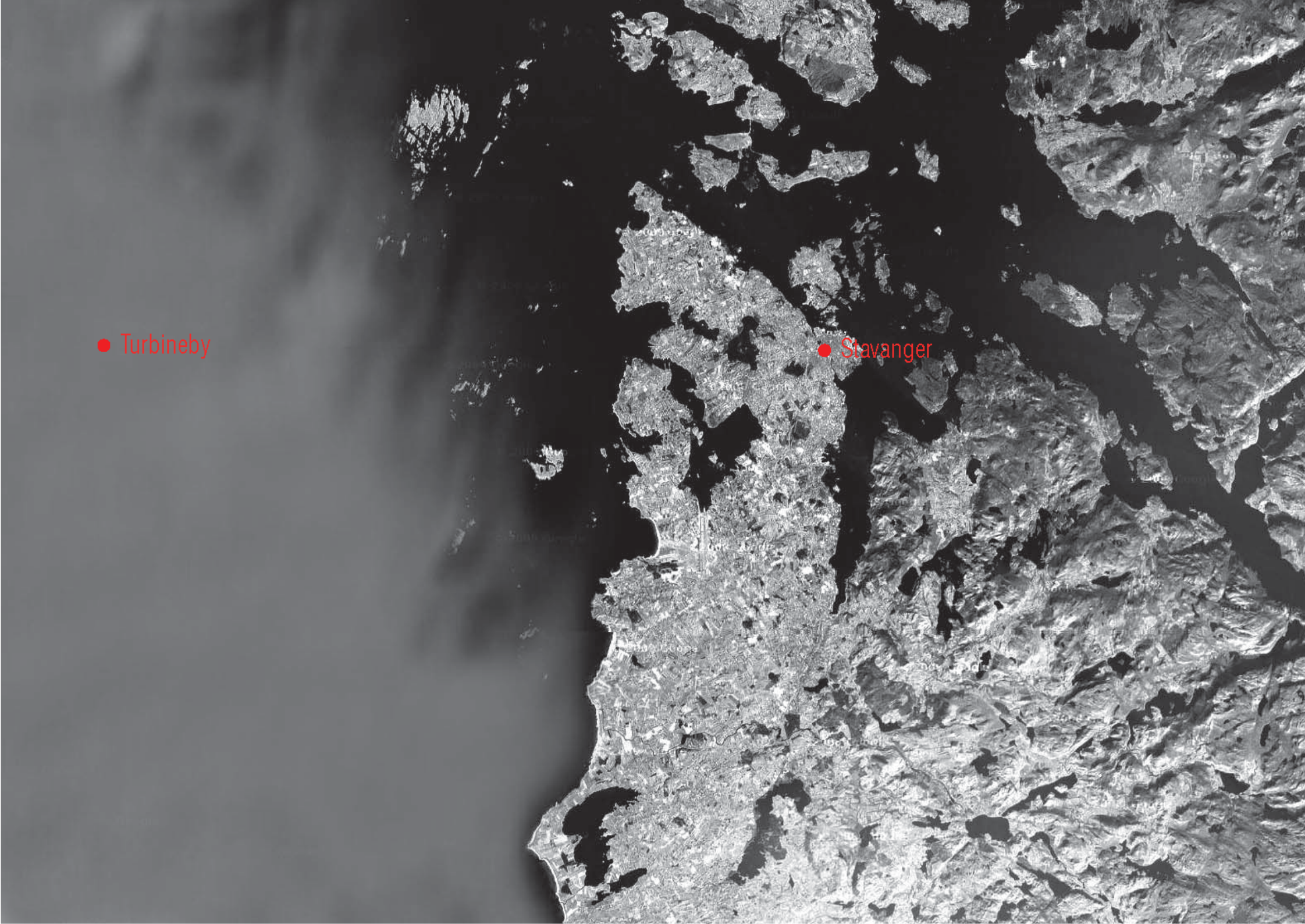
Giza



Beijing

...without clashing with the historical image of the city.

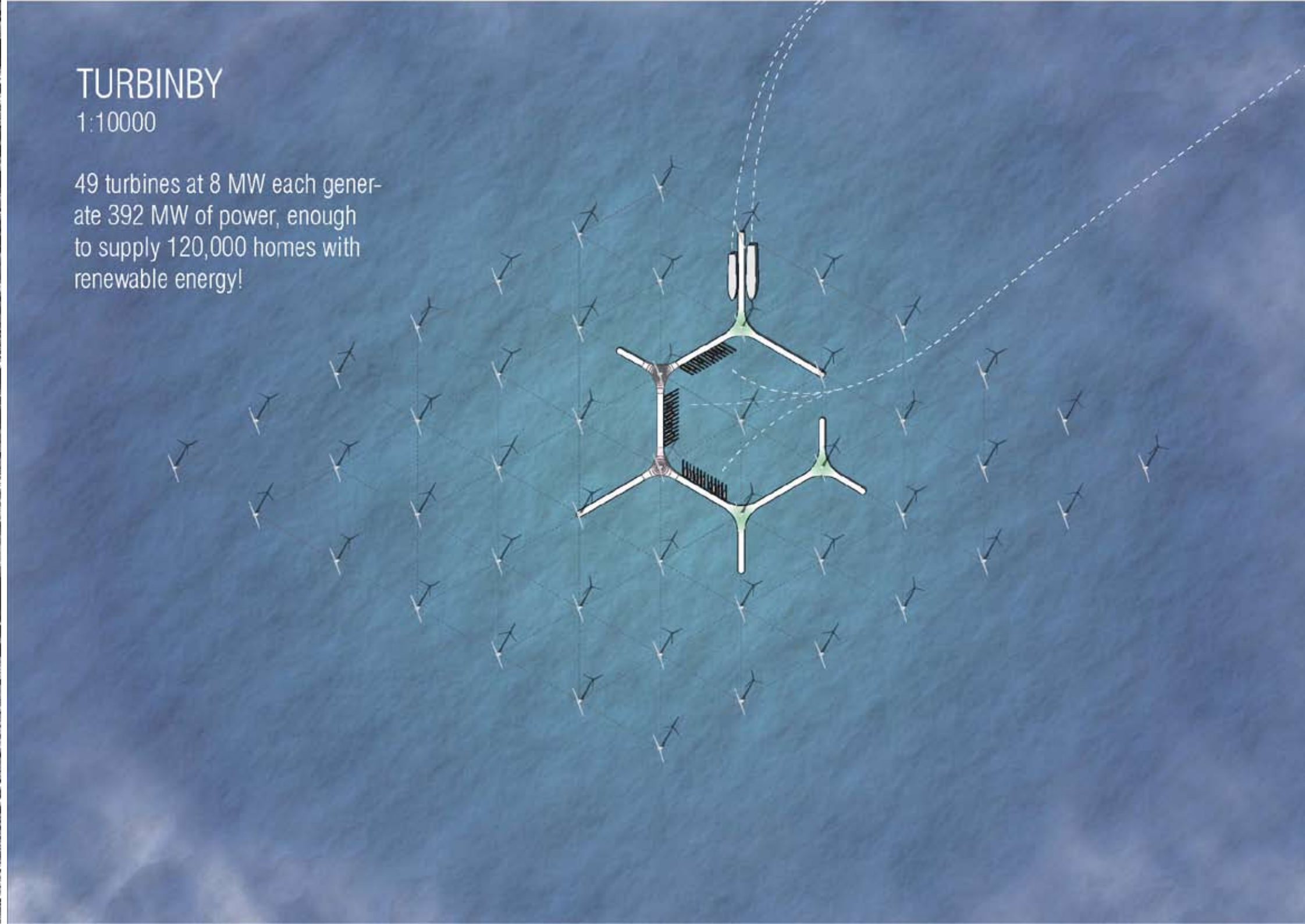




TURBINBY

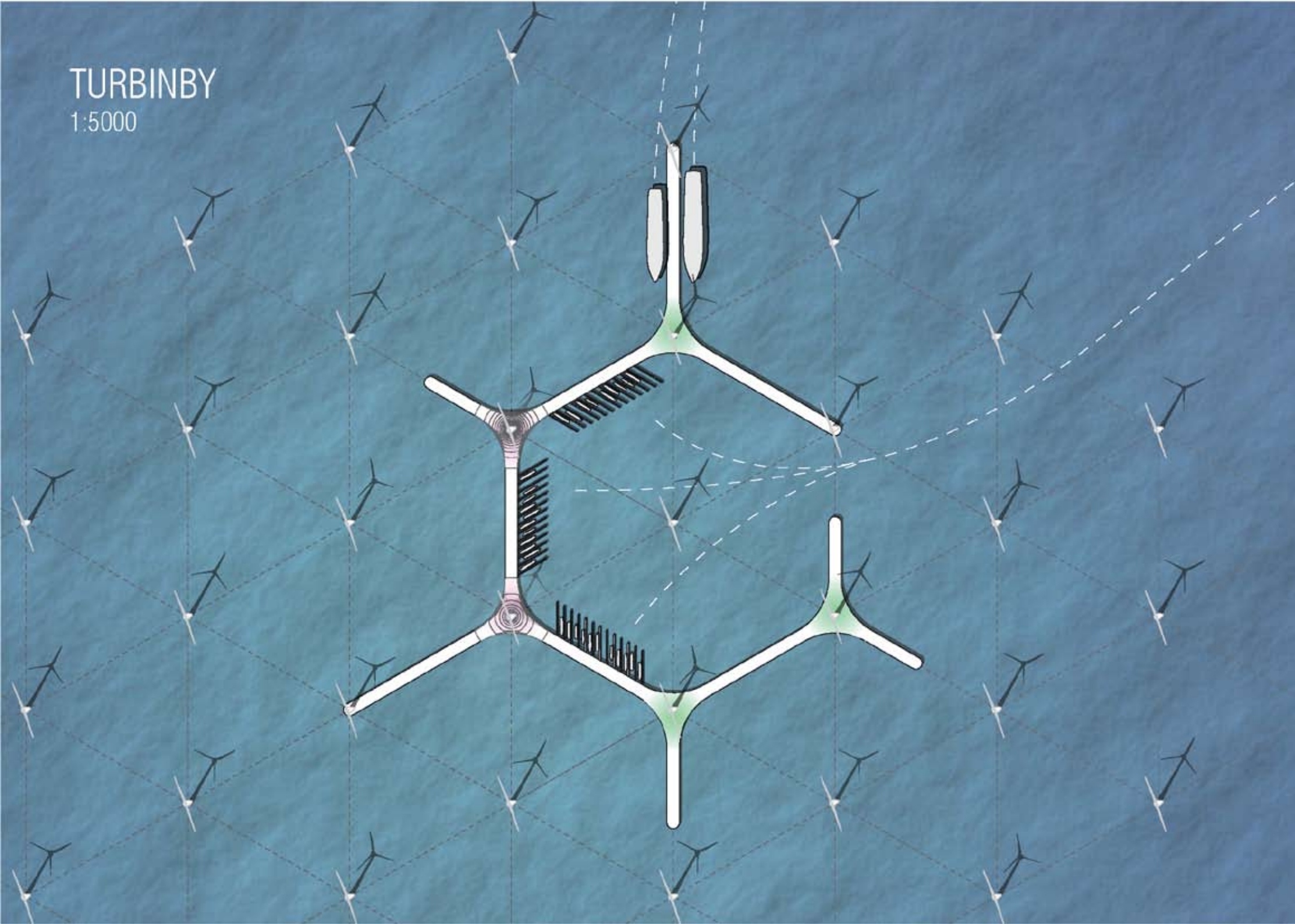
1:10000

49 turbines at 8 MW each generate 392 MW of power, enough to supply 120,000 homes with renewable energy!

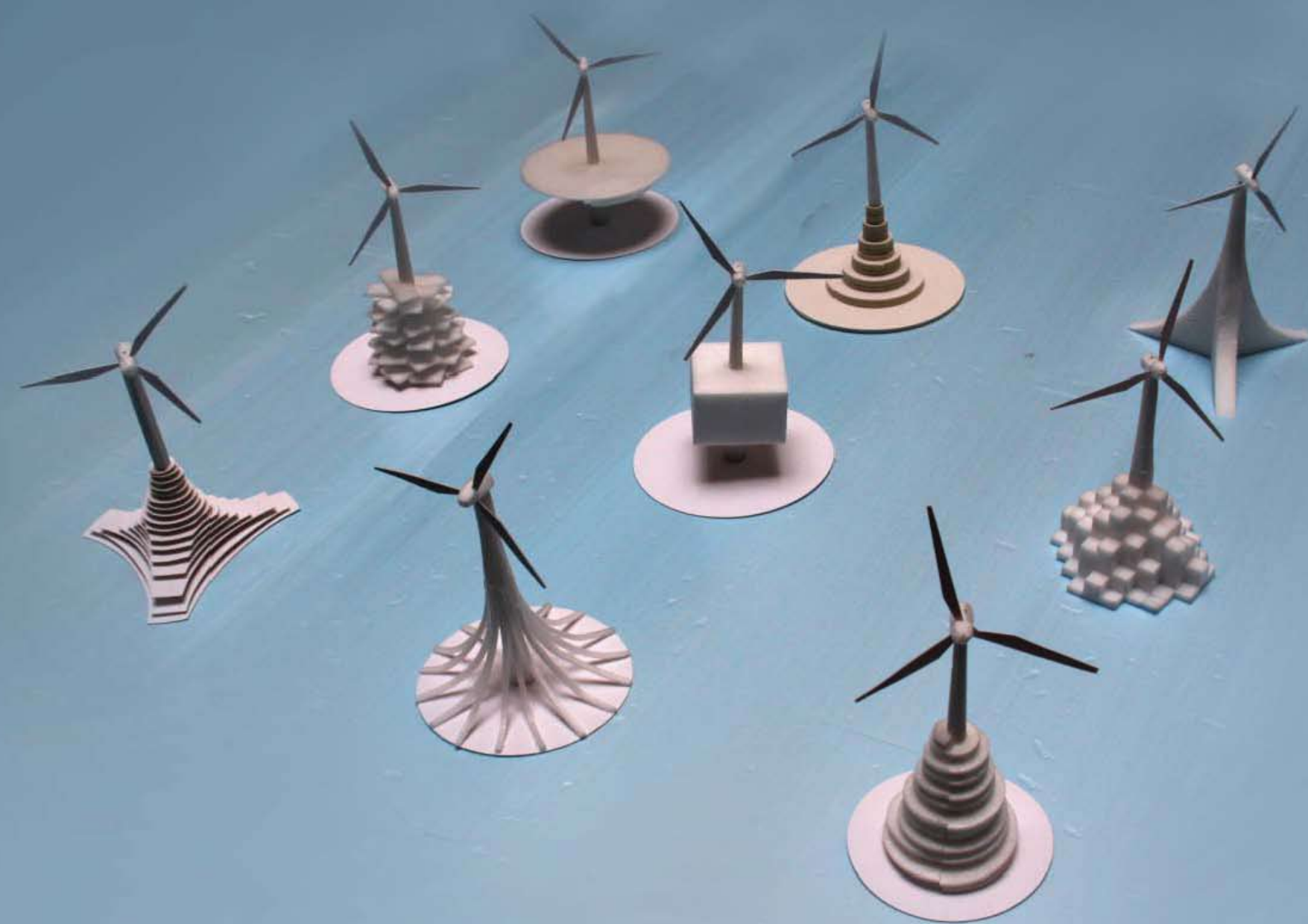


TURBINBY

1:5000



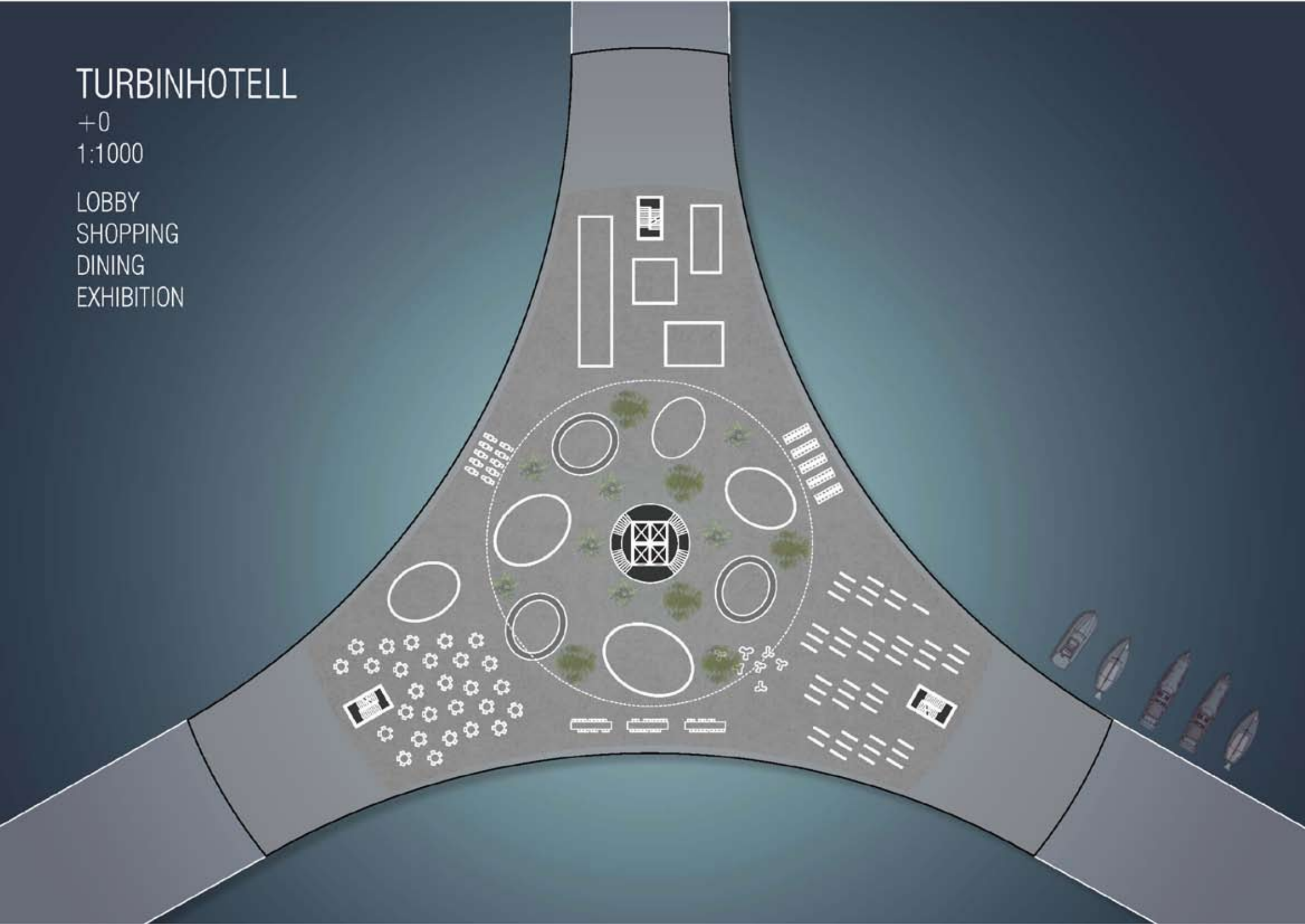
Possible typologies



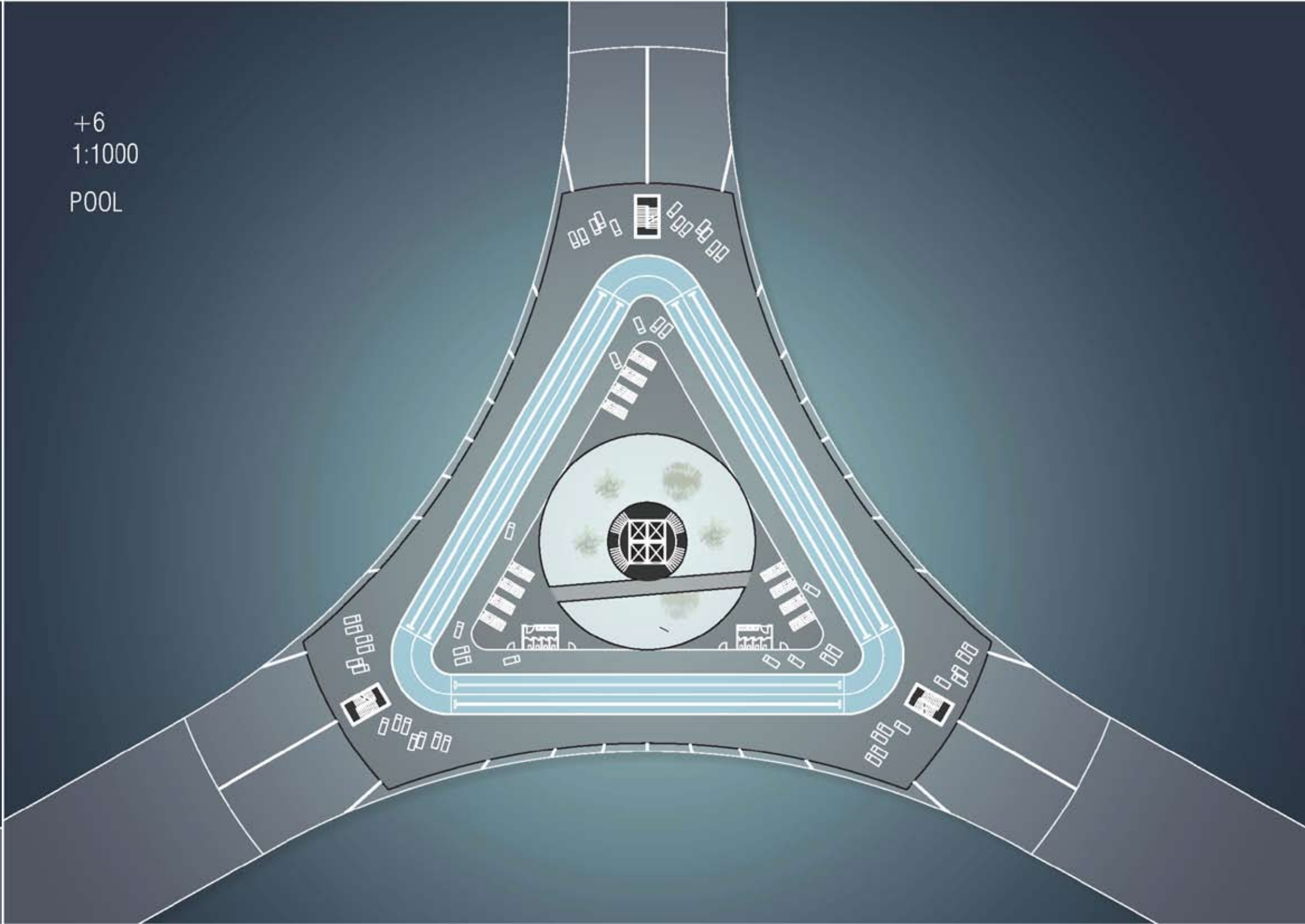
TURBINHOTELL

+0
1:1000

LOBBY
SHOPPING
DINING
EXHIBITION



+6
1:1000
POOL

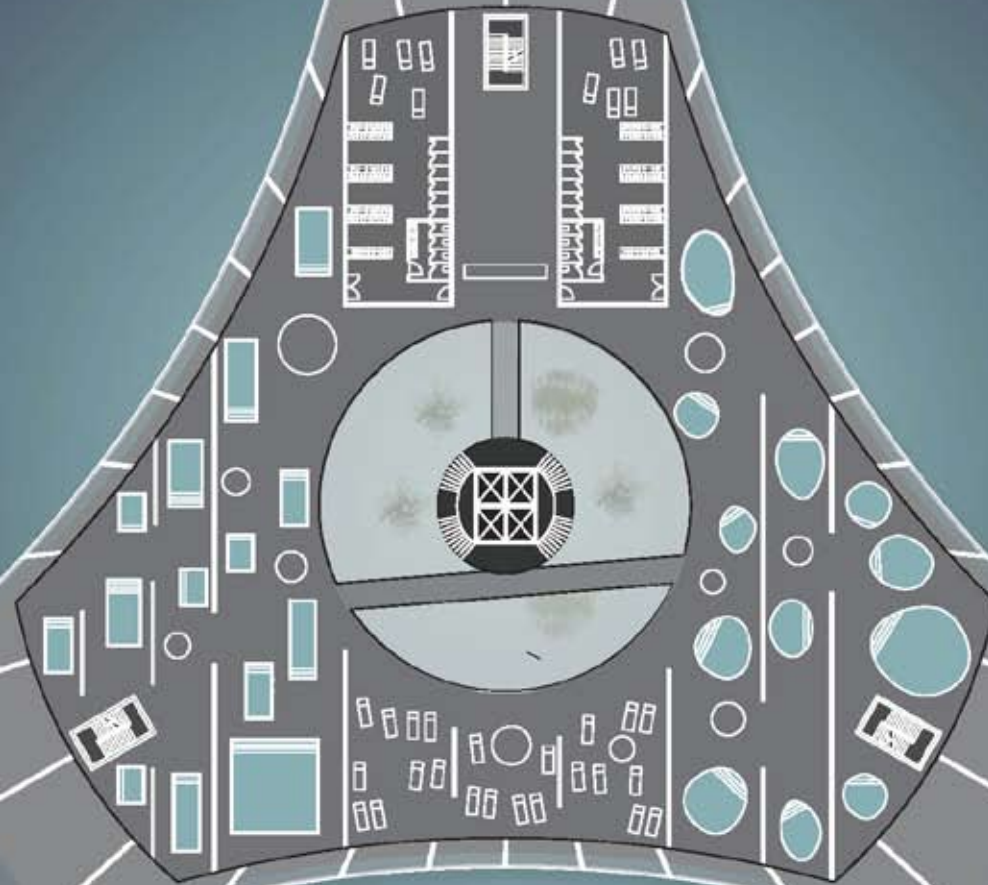


+9

1:1000

SPA

MASSAGE



+21

1:1000

TOTAL 150 ROOMS



