Claims

1. A wind power station comprising at least one support frame with a shaft fixed on it, which is able to rotate around a vertical axis and is functionally connected with a power generator and a blade system fixed on the shaft,

wherein the support frame is configured to be positioned between at least three radially positioned buildings and fixed to them, and the wind power station is equipped with a fairing which is fixed on the support frame,

and wherein one blade of the said blade system has a surface area of 20–1000 m2.

2. The wind power station according to claim 1, wherein it comprises additional blade systems positioned on the said shaft one over another.

3. A support frame for a wind power station, the support frame being configured for a shaft to be fixed thereon, the shaft being configured: to rotate around a vertical axis; to be functionally connected with a power generator; and for a blade system to be fixed on the shaft,

wherein the support frame is configured to be positioned between at least three radially positioned buildings and fixed to them, and wherein the support frame is equipped with a fairing fixed on the support frame.