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*Correction*

## Numerical investigation and improvement of the aerodynamic performance of a modified elliptical-bladed Savonius-style wind turbine

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### A correction on

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The authors would like to make the following corrections to the published paper [1].

On page 1213, we updated the contents of “one symbol statement:  $\rho$ ” in section 2. The updated contents are as follows:

- $\rho$  is the the density of air,

On page 1215, we updated the contents of “Eq 16” in section 2. The updated contents are as follows:

$$\frac{\partial \phi_\ell}{\partial t} + \nabla(\phi_\ell \vec{V}) - \nabla(\Gamma_\ell \vec{V} \phi_\ell) = R_\ell \quad (16)$$

On page 1216, we updated the contents of “Table 2” in section 2. The updated contents are as follows:

**Table 2.** The terms in the general transfer equation Eq 16.

$$\frac{\partial \phi_\ell}{\partial t} + \nabla(\phi_\ell \vec{V}) - \nabla(\Gamma_\ell \vec{V} \phi_\ell) = R_\ell \quad (16)$$

$l$	$\phi_\ell$	$\Gamma_\ell$	
1	U	$vt$	$-\frac{1}{\rho} \frac{\partial \rho}{\partial x} + \frac{\partial}{\partial x} \left( vt \frac{\partial u}{\partial x} \right) + \frac{\partial}{\partial y} \left( vt \frac{\partial v}{\partial x} \right) + \frac{\partial}{\partial z} \left( vt \frac{\partial w}{\partial x} \right) + gx$
2	V	$vt$	$-\frac{1}{\rho} \frac{\partial \rho}{\partial y} + \frac{\partial}{\partial x} \left( vt \frac{\partial u}{\partial y} \right) + \frac{\partial}{\partial y} \left( vt \frac{\partial v}{\partial y} \right) + \frac{\partial}{\partial z} \left( vt \frac{\partial w}{\partial y} \right) + gy$
3	W	$vt$	$-\frac{1}{\rho} \frac{\partial \rho}{\partial z} + \frac{\partial}{\partial x} \left( vt \frac{\partial u}{\partial z} \right) + \frac{\partial}{\partial y} \left( vt \frac{\partial v}{\partial z} \right) + \frac{\partial}{\partial z} \left( vt \frac{\partial w}{\partial z} \right) + gz$
4	1	0	0
5	K	$vt/$	$G - \varepsilon$
6	$\varepsilon$	$vt/$	$C_1 \frac{\varepsilon}{k} G - c_2 \frac{\varepsilon}{k} \varepsilon$

### Conflict of interest

All authors declare no conflicts of interest in this paper.

### References

1. Kurniati S, Syam S, Sanusi A (2023) Numerical investigation and improvement of the aerodynamic performance of a modified elliptical-bladed Savonius-style wind turbine. *AIMS Energy* 11: 1211–1230. <https://doi.org/10.3934/energy.2023055>



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