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Mattered...Effects

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Abstract. A

practical example

of obstacle-induced

flow in the

atmosphere that

constitutes a

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substantial
meteorological
measurement
problem is the
'wind shadow'
effect of a
meteorological
tower on wind
velocity in the lee
of the structure. At
White Sands
Missile Range, New
Mexico, a
150-meter tower is

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Tower shadow effect - Cermak -
1968 - Journal of ...
utilized to obtain
ballistic winds in
the lower part of
the planetary
boundary layer.

Tower shadow
effect - Cermak -
1968 - Journal of ...
It is found that
there is a change in
pressure
distribution on the
tower due to tower

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shadow. Also the effects of the interference on the power performance of the wind turbine are discussed. View

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“tower shadow”
effects from
anemometer data

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It is proposed that
uses a potential
flow solution in the
region outside the
tower wake, and a
Gaussian turbulent
wake within the
wake. The input
data required for
the model has
been intentionally
limited to data
typically available
for wind resource

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assessment
purposes.

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Anemometer Data

effects of tower

shadow on blade

movement and

bending are more

important than the

effects of, say,

periodically

reversing gravity

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Loading of the blades (1); however this importance is reversed at multi-megawatt scale.

The Effects of
Tower Shadow on
the Dynamics of a

...

This experiment investigated the effects of tower

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“shadowing” on
cup anemometer
wind speed
readings in the
wake of common
met tower
geometries. The
objective of this
study was to
quantify the
decrease in
measured wind
speed with varying
wind direction

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experimentally
using full-scale
wind facility
testing.

Data

Experimental study
of the effect of
tower shadow on ...

Experimental
results are
validated using a
tower shadow
model that is based
on potential flow

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theory. The tower shadow model shows a reduction in 3p power

oscillations by a factor of 2. Inspec

keywords: flow

visualisation ;

aerodynamics ;

wind turbines ;

rotors ; wind

tunnels ; blades

Microtabs for the

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mitigation of the
tower shadow
effect

The effects of
tower shadow on
the dynamics of a
horizontal-axis with
turbine -
NASA/ADS. Pitot
tubes were
employed to
measure the
shadow
characteristics of

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Tattice and tubular wind turbine towers in wind tunnel tests. Re of 140-50,000 and wind speeds of 9.13 and 7.40 m/sec were examined. General features of the shadow contours included a turbulent region up to 5 diam

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downstream and a steady widening of the shadow up to 3 diam downstream.

Data

The effects of tower shadow on the dynamics of a

...

□ 2D CFD was used to investigate tower shadow effects on both upwind and

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downwind turbines, and was used to validate the tower shadow models implemented in the aeroelastic code HAWC2. □ Using a streamlined tower reduces the tower shadow by 50% compared to a cylindrical tower. Similar reductions can be achieved

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Tower a four legged
lattice tower.

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Data

Evaluation of tower
shadow effects on

various wind
turbine ...

tower shadow
effects. The

fluctuating power
may be able to

excite the power
system oscillation

at a frequency

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close to the natural
oscillation
frequency of a
power system. This
paper presents a
simulation model
of a variable speed
wind farm with
permanent magnet
synchronous
generators (PMSGs)
and full-

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Impact of Wind
Shear and Tower
Shadowing On
Shadow ...
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data. Maybe you
have knowledge
that, people have
look numerous
period for their
favorite books
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than enjoying a
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cup of coffee in the
afternoon,
otherwise they
juggled once ...

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Tower shadow
effect - Cermak -

1968 - Journal of ...

It is found that

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pressure

distribution on the
tower due to tower
shadow. Also the

effects of the
interference on the
power performance
of the wind turbine

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are discussed. View
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Data "tower
shadow" effects
from anemometer
...

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steady and
turbulent motions,

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Tower as well as velocity spectra. The tower shadow is investigated in three different ways; using three dimensional physical model scale experiments, steady tower shadow models and two dimensional computational fluid dynamic (CFD) simulations.

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Tower shadow from the
CFD simulations,
an artificial
increase in blade
fatigue loading is
seen as the
transversal grid is
made coarser.
Although

The Tower Shadow
Effect in Downwind
Wind Turbines

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But due to the tower's shadowing on the southernmost edge of Harbour Green Park, they had to eliminate six floors in an earlier design, and cut a wedge shape on the top 10 floors in the final design to increase the solar access to the park.

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Tower Shadowing of 1166
West Pender Street
on the perimeter of
Harbour Green
Park.

Opinion:
Vancouver's
repressive tower
height policies to ...
Tower shadow
effect will cause
some adverse
results not only for

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blades but also for tower. Periodical fluctuation force is applied on tower and blade which causes fatigue damage easily. This paper can provide some references for further research about the influence of tower shadow effect on

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Tower
aerodynamic
performance.
Shadowing On

Anemometer
Simulation of
Tower Shadow
Effect for Offshore
Wind ...

A model is
proposed to
remove tower
shadow effects
from anemometer
data using a
potential flow

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Tower in the region outside the tower wake and assuming the tower wake is Gaussian and turbulent. An untuned version of the model reproduced the main features of tower-induced flow modification including the turbulent wake, but

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Tower
Shadowing On
Anemometer
Data

was not accurate enough to provide a useful correction for wind ...

Data

Experimental and theoretical investigation of tower shadow ...

The effect is almost like a sundial. "At regular times in the day, beams of bright sunlight

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Shine down to the subway platform below ground". Not that darkness and shadows are inherently unwelcome....

How architects are finding new ways to use sunlight and ...

This paper describes a

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frequency domain
approach for
evaluating the
impact of tower
shadow and wind
shear effects
(TSWS) on tie-line
power oscillations.
A simplified
frequency domain
model of an
interconnected
power system with
a wind farm is

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developed. The transfer function, which relates the tie-line power variation to the mechanical power ...

Effect of Tower Shadow and Wind Shear in a Wind Farm on AC ...
tower shadow and wind shear effects

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(TSWS) on tie-line power oscillations. A simplified frequency domain model of an interconnected power system with a wind farm is developed.

2013 OPEN
ACCESS energies
Modeling of tower
shadow effects is

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essential for design
of downwind
turbines, which are
promising in
complex terrains.

Present study
proposes a new
modeling method
for tower shadow
effects on the basis
of load
equivalence. It
considers
aerodynamic

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Interaction
between rotor and
tower and transient
passing through
tower wake.

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