

Global Wind Power Development: A Scenario To 2030

**Wind power can provide 8 % of global electricity by 2020 and 17 % by 2030
Major contribution to avoiding CO2 emissions**

BTM Consult has today released a new report with a long-term scenario for wind power development up to 2030. The scenario looks beyond BTM-C's forecast for 2014 and examines two future trajectories for 20 years ahead: a "**Business as Usual**" (BAU) projection and a more ambitious "**High**" version. Both projections are set against the background of the physical wind resources available, the likelihood of an adequate grid network and an assessment of the industry's ability to grow at the rates required.

The most likely projection to be realised is the BAU scenario, which envisages continuing, progressive and determined political support for wind power development at a national level, as well as globally through the expected outcome of the international Climate Conference (COP-15) being held in Copenhagen this December. The BAU trajectory is likely to happen even if an "imperfect" treaty is finalised in Copenhagen.

The two projections are compared with the outcome of a very early scenario, Windforce 10, carried out by BTM-C 11 years ago. This comparison shows that the **Windforce 10** *) projections - considered to be very ambitious in 1998 - were exceeded in 2008 by the actual level of market development by **+ 12%**.

*) "Windforce 10" was published by Greenpeace International and the European Wind Energy Association

2,500 Gigawatts installed by 2030

By 2030 nearly 2,500 GW of wind power capacity is projected to be on line. This would **cover 17 % of total global electricity consumption**. Today wind power provides 1.3 % of the world's electricity.

To achieve this target the level of cumulative installation (CAGR) will need to grow at an average annual rate of 12% beyond 2014. This is moderate compared to the past five years, which have averaged 25%. A large production capability has already been established in Europe, the USA and China over the past three years, only slowed by the emergence of the global financial crisis in autumn 2008. In future the fastest growth will be seen in the US and China.

Wind power can deliver 5 Gigatonnes of avoided CO2 emissions in 2030

If the projections of the BAU scenario are realised, wind power will be producing 5,655 TWh of electricity each year by 2030. That amount of clean electricity will avoid the emission of **5 Gt** (billion tonnes) of carbon dioxide, representing **28.2 % of the global emissions of CO2 from all power production**, according to the International Energy Agency *).

*) IEA's World Energy Outlook 2008 - Reference Scenario

Wind power will therefore be the major contributor from the power production sector in the battle against global warming. The international wind industry is ready to follow the BAU trajectory, and manufacturing facilities are in place in all the major markets of the world.

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