



WIND POWER IN SKI RESORTS: CLEAN ENERGY THANKS LEITWIND

Thinking and working together holistically - that is just one of the many strengths of the companies in the HTI Group. Cross-sector cooperation makes it possible to constantly explore new fields of application for the various products and new potential for synergies.

LEITNER, PRINOTH and DEMACLENKO, for example, have been joining forces for years to offer a complete range of alpine winter technologies unrivaled in the world. A new interesting approach for a clean energy concept in ski resorts is now presented by the sister company LEITWIND. After all, wind energy can also become the engine for energy independence and climate friendliness in alpine tourism.

There are a number of advantages to using wind turbines: Clean energy can be produced directly on site and exactly when it is actually needed - such as during the night hours for snowmaking. In addition, due to the infrastructure already in place, the surroundings of ski resorts offer optimal conditions to fully exploit the strengths of wind power at the appropriate altitudes. Thanks to the small amount of area required, wind energy protects the landscape and, in the sensitive alpine environment, helps to produce the electricity needed for ropeways, snowmaking, hotels and restaurants in a space-saving manner and, thanks to the DirectDrive generator, particularly quietly and efficiently.



CASE STUDY ENERGY CONSUMPTION FOR SNOWMAKING

- Average length of slopes: **4,400 m**
- Average distance between snow guns: **200 m**
- Average working hours per winter season: **200 hours**
- Total snow guns considered: **200**
- Average consumption of snow guns: **24 kWh**
- Average energy consumption during the winter season: **960 MWh**

POWER OF THE WIND TURBINE LTW42 (250kW)

Ø WIND SPEED	GAEP*
4.5 m/s	492 MWh
5.0 m/s	622 MWh
5.5 m/s	750 MWh
6.0 m/s	872 MWh
6.5 m/s	995 MWh
7.0 m/s	1088 MWh
7.5 m/s	1181 MWh

*Gross Annual Energy Production



HYDROPOWER: THE HTI GROUP IS GROWING:

By means of a signed capital increase, the HTI Group became the majority shareholder of the Sterzing-based company Troyer at the beginning of the year. Founded in 1934, Troyer has a consolidated experience in the production and distribution of hydroelectric turbines, both on the Italian and international market. The Group is thus strengthening its presence in the renewable energy sector and now includes hydropower in its portfolio, in addition to wind power. This opens up numerous new opportunities for cross-divisional synergies within the Group. Also in snowmaking, where water and energy are the central elements.



ANTON SEEBER

PRESIDENT OF THE
HTI GROUP

Troyer is a company that has been able to conquer an important role in the hydropower market with its technology. A sector that fits in well with the activities that we have been pursuing for some time now on the renewable energy front, as a manufacturer of wind turbines as well as on the side of the production of renewable energy itself through wind and photovoltaics. Sustainability is a core value of our Group.