

**SCHOOL AND FIRM HAND IN HAND
AN EXAMPLE OF A GOOD
PARTNERSHIP**

**COMPLEMENTARY TRAINING
TECHNICAL MAINTENANCE OF WIND FARMS**

HOW IT STARTED

- ➔ In september 2005, a member of a group of investors and wind developer wanted to build a wind farm in Champagne Ardenne.
- ➔ The need: Advanced Technicians in Wind Turbines Maintenance because of the growing development of wind farms in France and Champagne Ardenne.

The Problem

- ➔ There was no training course in France
- ➔ The Course existed in HUSUM (Northern Germany) and belonged to BZEE
- ➔ Need to go to HUSUM to see our potential to start the course in our school

The Visit to HUSUM

➔ 4 people went there:

- ☛ the technical director
- ☛ a german teacher
- ☛ a teacher of Electrical Engineering
- ☛ the wind farm developer

The Conclusions of the visit

- ➔ The School had the qualified teachers to run the course
- ➔ Need to train different teachers to this course
- ➔ Need of different equipments

The different stages of the project

➔ January 2006: meeting with the Town of Charleville-Mézières, the representatives of the District Council (conseil général), the Regional Council of Champagne Ardenne, The Chamber of Commerce and Industry, the education authority and the inspectors, the wind developer to let them know our project and our needs.

The different stages of the project

- January and February 2006: Meeting with BZEE to organise the teachers training and our partnership
- February 2006: Getting commitments of wind turbines manufacturers and wind companies to host our students in training periods
- May and June 2006: Teachers training in HUSUM
- May to June 2006: first investments
- October 2006: Beginning of the course with 12 students

Our PARTNERS

- ➔ BZEE
- ➔ ALE: Local Agency for Energy
- ➔ ADEME: French Agency for Environment and Energy Management
- ➔ ANPE : National Employment Agency
- ➔ AILENERGIE: Wind Developer
- ➔ Champagne-Ardenne Development
- ➔ NORDEX FRANCE (manufacturer)
- ➔ REPOWER (manufacturer)
- ➔ VESTAS (manufacturer)
- ➔ WEST (maintenance company)

COSTS and EXPENSES

- ➔ Tower, Used Wind Energy Plants, Set of Rotor Blades , transport and erection, gear box, ... = 293 900 €
- ➔ Teachers Training: = 71 500 €
- ➔ Total: = 365 400 €

Some pictures



Participation costs

→ Region Champagne Ardenne:	165 000 €
→ Education Authority:	10 970 €
→ ADEME:	50 000 €
→ Conseil Général:	15 000 €
→ CCI:	1 000 €
→ Lycée Bazin:	4 270 €
→ Wind and Industry Companies:	13 700 €
→ Companies Contribution (Taxe d'Apprentissage):	105 660 €

(56 260 € for teachers training and 50 460 € for equipment)

A great Success

➔ The features of a FCIL (Formation Complémentaire d'Initiative Locale = further training of local initiative)

- ☛ partnership with companies

- ☛ need for companies

- ☛ many weeks of training in companies

Other contribution of partners

- ➔ In the course
- ➔ In conferences given to the students
- ➔ Meeting students to offer jobs
- ➔ By giving equipment (A Wind Energy Plant given by VERGNET, a French Manufacturer)
- ➔ By hosting teachers , training them and showing them their new technology and development

The Importance of the contribution of the companies in this particular case

- ➔ We couldn't do without them because the education authority couldn't pay for the whole teachers training: it was too expensive for its budget.
- ➔ It's always more efficient when there are different partners.

Companies that came to school last year

Windtechnics	Cockerill CMI	RePower
Eol Construction	Skylotec	VESTAS
SIEMENS	DBI groupe AREVA	
REETEC	ALE 08	NEO
ENERCON	SCHUNK	Enertrag
CLER	La Française d'Eoliennes	
STROMAG	ENERCON	