



| Energy source    | Wind                      |         | Solar     |            | Biomass |          |
|------------------|---------------------------|---------|-----------|------------|---------|----------|
| Type of service  | Planning                  | Constr. | Operation | Consulting | R&D     | Coaching |
| Country          | Romania                   |         |           |            |         |          |
| Completed by ECC | 2011 & ongoing monitoring |         |           |            |         |          |

|                                   |  |
|-----------------------------------|--|
| <b>Name of project</b>            | <b>Installation and implementation of the technical operational management for the wind farms Mihai Viteazu I &amp; II (Romania)</b>   |
| <b>Location / Country</b>         | Mihai Viteazu / Romania  |
| <b>Description</b>                | <p>After these last years, where mainly old plants were erected in Romania, the use of wind energy in Romania entered a new age in 2009 with the start of operation of the first new plants.</p> <p>Energy Competence Centre was hired for conceptually structure and implement the technical operational management for the 2 wind parks Mihai Viteazu I and II. With start of operation of the wind turbines, Energy Competence Centre acts as supervisor, collecting all information and forwarding it to the right departments and stakeholders.</p> |
| <b>Client</b>                     | SC Clean Energy Development SRL  |
| <b>Investment volume</b>          | - € (only OPEX) (CAPEX for the 2 wind parks: 11.200.000 €)   |
| <b>Project start for ECC</b>      | December 2009  |
| <b>Target project end for ECC</b> | 2011 for the implementation + continuous monitoring (ongoing)  |
| <b>Range of services</b>          | <ul style="list-style-type: none"> <li>- Installation and implementation of a concept for the operational management</li> <li>- ongoing support for, supervision of and consulting on the operational management</li> <li>- establishing and supervising insurance cover for the wind farm</li> <li>- forecasting and analysis of production output, target-performance comparison</li> <li>- recommendation and coordination of employees for the operational management</li> </ul>   |
| <b>Project figures in brief</b>   | <ul style="list-style-type: none"> <li>- WTG count: 7</li> <li>- Type of WTG: Enercon E53</li> <li>- Hub height: 73 m</li> <li>- WTG nominal power: 0,8 MW</li> <li>- Total power: 5,6 MW</li> </ul>   |