

## Research and Development at WS Energia

### **Management of New Product Development (NPD)**

- NPD – Time management.
- NPD – Resources management.
- NPD – Cost management.
- NPD – Benchmarking of hi-tech companies.
- NPD – Computational linguistics.

### **Robotics and automatic control**

- Electronics for low-cost Sun-tracking.
- Remote monitoring and control of PV Sun-tracking systems.
- Web portal for remote monitoring and control of PV Sun-tracking systems.
- Wireless local communication network for PV Sun-tracking systems.

### **Sun-tracking structures**

- Structures for low-cost Sun-tracking.
- Hybrid optical-structural elements.
- Wind loads on Sun-tracking structures.

### **CPV module encapsulation**

- New encapsulating materials for CPV.
- New encapsulation techniques for CPV.
- Heat transfer models for CPV modules.
- Pre-certification of CPV systems – according to IEC 62108 standard.

### **Optics for CPV systems**

- New materials for CPV optics.
- Secondary optics for CPV.
- Indoor system to test CPV.

### **Cells for CPV systems**

- New cells for CPV.
- Soldering methods for CPV cells.
- Quality control of CPV cells.

### **CPV peripheral systems**

- Cooling systems for CPV modules.
- Solar-park simulation.
- Hybrid (hot-water + electricity) CPV systems.
- Hybrid (fresh-water + electricity) CPV systems.
- Life cycle analysis of CPV systems and instalations.

This list is not exhaustive. Any subject related to photovoltaic systems is of interest to WS Energia.  
For more information please email to [cv@ws-energia.com](mailto:cv@ws-energia.com).