

# Energy Efficient Motion Control from Comatec

## EEMC

Combining the best properties of different motion control technologies



Update your  
technology

Cut product costs

Simplify your  
hardware

Add features with  
intelligent software

**Comatec EEMC provides** custom R&D services for various fields of motion control technology. Our experience ranges from electric actuators to large scale hydraulic drives and power transmission systems.

**Innovative professionals,** modern software tools and awareness of emerging technologies ensure our cutting edge competence.

**Our services** cover all the way from concepting to prototype implementation and further product development. Projects may include solution mapping, system design, dynamic simulations, as well as on-site consulting, measurements and data analysis.

## References

ABB Marine, AW-Energy,  
Posiva, Rotator, Sandvik

SOLUTIONS. PROJECTS. EXPERTS.



BRAIN POWER FOR ENGINEERING



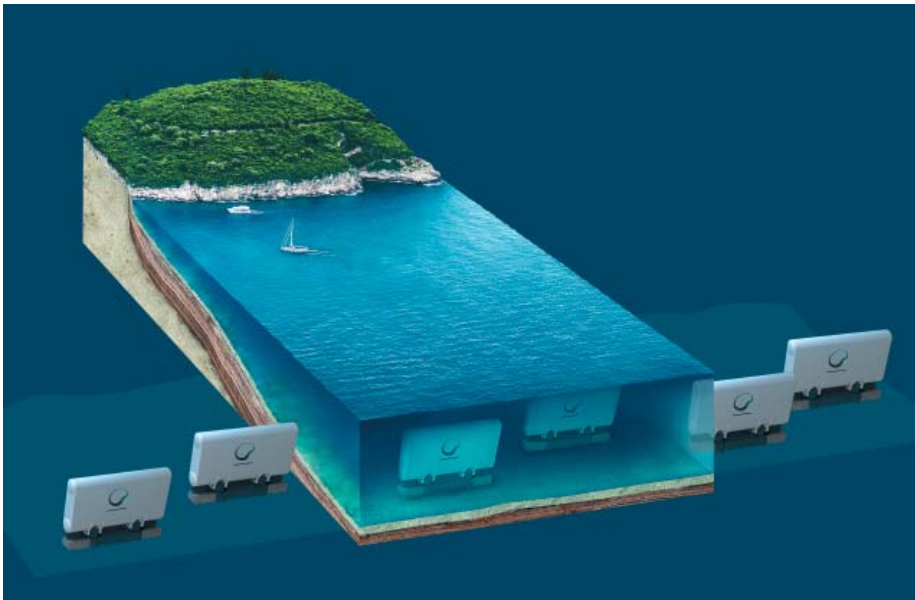
## Comatec EEMC team carried out projects for AW-Energy on WaveRoller® wave energy converter.

### Goals

- Hydraulic-mechanical design tasks relating to energy conversion
- Create, design and simulate new motion control concepts

### Results

- Projects completed on schedule with excellent results
- Customer expectations met
- Several invention disclosure
- AW-Energy feedback on EEMC team performance:
  - Produced exceptionally innovative solutions
  - Took responsibility for project schedule
  - Were reliable throughout project
  - Showed great flexibility



*Comatec personnel are experts and a pleasure to work with."*

Customer satisfaction survey, 2012

### All About Motion Control:

- Digital hydraulics
- Proportional valve control
- Secondary control
- Hydraulic servo control
- Pneumatic control
- Electric motor control
- Mechanics, kinematics
- Displacement control

SOLUTIONS. PROJECTS. EXPERTS.

 **COMATEC**®  
tel. +358 29 000 2000 | [www.comatec.fi](http://www.comatec.fi)

### Comatec Group

Jukka-Pekka Uusitalo, tel. +358 400 467 513,  
[jukka-pekka.uusitalo@comatec.fi](mailto:jukka-pekka.uusitalo@comatec.fi)  
Arto Timperi, tel. +358 40 758 7740,  
[arto.timperi@comatec.fi](mailto:arto.timperi@comatec.fi)  
tel. +358 29 000 2000