PowerCon A/S
Shore power systems
PowerCon

- Converter Development
- Test Equipment
- Shore Power Systems
DIRECTIVE 2014/94/EU, requires ports in Europe, to installed shore power as a priority no later than December 2025.

.... Such shore-side electricity supply shall be installed as a priority in ports of the TEN-T Core Network, and in other ports, by 31 December 2025, unless there is no demand and the costs are disproportionate to the benefits, including environmental benefits.

.....Member States shall ensure that shore-side electricity supply installations for maritime transport, deployed or renewed as from 18 November 2017, comply with the IEC/ISO/IEEE 80005-1 standard...
• All OPS systems must follow the standard
• Plugs, safety, communication and power capacity
• Benefits proven in Norway
• Facilities for cruise must be 16MVA to 20MVA
• Include future charging of cruise vessels
Shore Power – Environmental benefits

- Cheapest way to reduce emissions
- Electricity will become zero/low emission in all countries
- Removes all exhaust types
- Removes noise/vibrations from engines
Shore Power – Economic Benefits

• Fuel, Crew, Engine maintenance
• Surprising extra savings
• Cleaner fuels improves economy for shore power!
Shore Power – How can it Thrive

• European tax exemption for shore-side electricity
• Price of electricity should never exceed the price of diesel
  (Preferably fuel cost should include environmental damage)
• Shore Power needs a stable and predictable investment enviroment
• Utility Companies should embrace Shore Power
Shore Power – Tendering

- There are standard solutions
- Make design competition to find best value
- Reduced planning cost – more bang for the buck!
Shore Power – Make the Changes Now

- Shore power can be built in less than one year
- Focus on near future wins and adapt solution later
- Look for solutions that can be adapted and scaled, like mobile solutions