Ocean Thermal Energy
**Our competitive advantage**

**Technology**
Bluerise works on a up to **20% more efficient OTEC cycle** involving a binary working fluid. Higher efficiency will allow for lower capital expenditure and thus: **lower $/kWh**

**Software**
Bluerise works on a comprehensive portfolio of software products relevant to the deployment and control of OTEC systems.

**Synergetic approach**
Bluerise’s approach to OTEC implementation is to start small & innovative, making use of the synergetic applications of the deep sea water resource, so infrastructure costs can be shared and OTEC becomes economically viable at relative small scale.
OTEC cycle and control systems

Up to 20% more efficient than general ORC = lighter systems and lower cost/kwh
- Series of test results **validate theoretical model**
- In-house developed **OTEC control system** tested
- Relevant experience & results for scaling up to our pilot plants
OTEC online tool

- Increase market awareness
- Revenue possibilities
OCEAN ECOPARK

1. Curacao
2. San Andres, Colombia
SDC 10MWt
OTEC 100kW+
Ecopark facilities
Dutch Government support, subsidy for offshore 10MW OTEC development

Main activity:
Feasibility analysis of a 10MW offshore OTEC plant, e.g. considering costs, technology, environment, regulation and validation with industry

Objectives:
• Identifying key bottlenecks and ways to solve them
• Unlocking the market for offshore OTEC
• Partnerships with Dutch Maritime/Offshore industry

Deliveries:
• Report, validation, Joint-Industry proposal, partnerships in developing the first offshore OTEC 10MW plant
Our competitive advantage

Dutch offshore industry will take the lead
Partnership possibilities
(e.g. Heerema, Bluewater, SBM, MOCS, etc.)
Thank you!

Remi Blokker
Bluerise
www.bluerise.nl