

Sustainable use of cooling water from the Wadden Sea	Programme		<i>Afternoon session</i>	
<p>4 November 2010, Oude Remise Nieuweschans International workshop, organised by Wadden Academy – KNAW RWS Centre for Water Management in cooperation with ZiltWater Advies</p> <p>There is a tendency to plan increasing numbers of new power stations along the borders of the Wadden Sea and its estuaries.</p> <p>Together with the already existing plants this means that increasing volumes of cooling water are used and discharged, which may eventually cause an impact on the ecosystem by the extraction and mortality of organisms and the thermal input.</p> <p>What does the intake of cooling water mean for the ecosystem and (how) can a sustainable use of cooling water be realised?</p> <p>These questions will be addressed in an international workshop, organised on behalf of the Waddenacademy-KNAW and RWS Centre for Water Management.</p> <p>The aim of the workshop is to draw the attention to cooling water as an aspect of large-scale energy generation, ways to assess the impact of cooling water extraction, and to discuss the expected developments in the near future.</p> <p>Furthermore, the workshop will help identifying knowledge gaps, synergies and possibilities for innovation with regard to the development of new techniques and initiatives along the Wadden Sea (estuaries).</p>	<p>Chair of the day: Prof. Dr. Peter Herman Wadden Academy – KNAW</p> <p>Morning session</p> <p>9.30 h Reception with coffee, installation of the posters</p> <p>10.15 h Welcoming speech Prof Dr. Peter Herman, on behalf of Wadden Academy and RWS Centre for Water Management</p> <p>10.30 h Sustainable use of cooling water from the Wadden Sea? Zwanette Jager (ZiltWater Advies) / Frides Laméris (Tebodin)</p> <p>11.00 h Impact assessment of cooling water withdrawal - a simple (worst case) approach Dju Bijstra (RWS Centre for Water Management)</p> <p>11.30 h Cooling water intake in German coastal and transitional waters: ecological and technical aspects from the perspective of a water authority Jan Witt / Kirsten Dau (NLWKN)</p> <p>12.00 h Plenary discussion: what are the most important issues?</p> <p>12.30 h – 14.00 h LUNCH break Posters, multimedia presentations, models etc.</p>	<p>14.00 h Evaluation and minimization of entrainment and impingement – a challenge for environmental consultants. Experiences from the Elbe estuary Marianne Rothensee / Elith Wittrock (ARSU)</p> <p>14.20 h Reduction of fish impingement: Best Available Approach for cooling water intakes? Maarten Bruijs (KEMA)</p> <p>14.40 h Hydrodynamic models: the first step in assessing ecological impacts of cooling water discharge Anton de Fockert (Deltares) et al.</p> <p>15.00 h TEA break</p> <p>15.20 h Monitoring and impact assessment at Shell Moerdijk, E.On (Maasvlakte) and Eems power plant Tim Vriese (AT-KB)</p> <p>15.40 h Operational aspects of the Eemscentrale cooling water intake, observations of fish and birds and expected effects of the current improvement program Bart van Keulen (Electrabel)</p> <p>16.00 h Plenary discussion: gaps in knowledge, what do we need to achieve a sustainable cooling water strategy?</p> <p>16.30 – 17.30 h Conclusion of the meeting Drinks</p>		