



## **Workshop on Cooling Systems, Water Treatment Technologies and Materials for Steam Condenser**

### ***Key Performances and Success Indicators***



**September 21, 2016**

**EDF research center, CHATOU - Island of the impressionists**

*A Dinner on the 20<sup>th</sup> of September will be hosted by EDF*

The workshop has the objective to put together the partners of the project with the group of Stakeholders currently including Research Centers, Technology providers, Utilities, European Platforms, Industrial Associations.

During the workshop the methodologies that have been individuated in the project to evaluate and compare the performances of the different technologies (Key Performance Indicators and Success Indicators) will be shared with the stakeholder group to receive their feedback. KPI have been defined at technology level but also at global level to measure the contribution of the technology to the overall project targets and more in general to evaluate the possibility for such technologies to reach the market.

At this regard during the round tables, the current state of the art of such technologies, present challenges and market expectations will be discussed. To complete the picture an overview of the regulatory framework will be given in the afternoon session.

## AGENDA

<b>08:30 – 09:00</b>	<b>WELCOME COFFEE</b>	
<b>09:00 – 09:30</b>	<b>Welcome &amp; Introduction</b>	<b>Didier Le Reverend (EDF) Danila Cumbo (ENEL)</b>
	<b>General presentation of Work Package 2</b>	<b>Han Huyn (ENGIE LAB)</b>
	<ul style="list-style-type: none"> <li>• Cooling Systems, Water Treatment Technologies and Materials for Steam Condenser: <i>Key Performances and Success Indicators</i></li> </ul>	<b>Emmanuelle Bertrande (ENGIE LAB)</b>
<b>09:30 – 10:45</b>	<ul style="list-style-type: none"> <li>• Standards for testing (water quality ,test procedures, reporting)</li> <li>• Water footprint analysis and definition of scenarii for the application of “water saving technologies”</li> </ul>	<b>Lars Venhuis (SWECO)</b>
		<b>Mathieu Anderhalt (EDF)</b>
	<b>Question and Answers</b>	<b>ALL</b>
<b>10:45 -11:15</b>	<p><b><u>First Round Table:</u> <i>The use of membranes for water treatment in the electric sector: state of the art, current needs and market trend</i></b>  <b>LEAD:</b> Wim De Shepper (VITO)  <b>Participants:</b> Matteo Arcari (Membrane), Jeffrey Preece( EPRI), Danila Cumbo (ENEL), Han Huyn (ENGIE LAB), Francesca Macedonio (CNR-ITM)</p>	
<b>11:15 – 11:45</b>	<p><b><u>Second Round Table:</u> <i>The use of coatings in heat transfer equipment : state of the art, current needs and market trend</i></b>  <b>LEAD:</b> Stefan Holberg (DTI)  <b>Participants:</b> Wolfgang Czolkoss (VGB), Szymon Modelski (General Electric), Mireille Poelman (Materia Nova), Franck David (EDF), Andres Sanchez (ENDESA), Marcos Cruces Hermo (INTEGASA)</p>	
<b>11:45- 12:00</b>	<b>Wrap up and conclusions</b>	
<b>12:00-13:00</b>	<b>Lunch (at EDF Campus)</b>	
<b>13:00-15:00</b>	<b>Site visit to EDF LAB - PERICLES and THRYCO</b>	<b>ALL</b>
<b>15:00 -15:30</b>	<b>An overview of EU regulation on water use and waste water treatment in the electric sector</b>	<b>Remi Bussac (EDF/Eurelectric)</b>
<b>15:30 -16:00</b>	<b>An overview of USA- EPA regulation on water use and waste water treatment in the electric sector</b>	<b>Jeffrey Preece (EPRI)</b>
<b>16:00 – 16:15</b>	<b>Wrap up and Conclusions</b>	
		<b>ENEL&amp;LABORELEC</b>