

An aerial, black and white photograph of the New York City skyline, showing a dense cluster of skyscrapers and buildings along the coast, with the Hudson River and East River visible. The image serves as the background for the entire graphic.

3RD GLOBAL
DISTRICT
ENERGY
CLIMATE
AWARDS

September 23 , 2013 | New York City

Special Award: Innovation

JOENSUU FINLAND



An aerial photograph of an industrial facility featuring two large, cylindrical storage tanks. The tank on the left is covered in scaffolding, while the tank on the right has a red roof structure. The background shows a dense forest. The text is overlaid in white, bold font.

**District Energy/CHP as local economic
& environmental engine**

**Integrated tri-generation of bio-fuels
to existing district heating/CHP**

**Added revenue stream; increased
CHP efficiency and economic
multiplier effect supports local forestry
& harvesting; cuts fuel imports**



**World's first industrial scale bio-oil
plant integrated to CHP**

**Converts wood waste otherwise not
used, through fast pyrolysis, into bio-oil**

**In 2012 - Local fuel share 95%;
renewable 65% - 100% in 2013**

**Cut CO₂ emissions by 180,000 tonnes,
the equivalent of removing 11,000 cars**

3RD GLOBAL
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AWARDS

SPECIAL AWARD: INNOVATION

Awarded to **City of Joensuu and Fortum:**
District Energy + Bio-Oil Production 

September 23, 2013 | New York City, NY

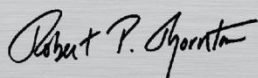
JOENSUU

Fortum



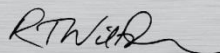
This is to certify that the **City of Joensuu and Fortum** have been officially recognized by a team of international experts chaired by the International Energy Agency (IEA) Technology Network, for their outstanding achievement in demonstrating local District Energy leadership in providing clean, sustainable energy solutions to protect against the risk of climate change.

 INTERNATIONAL
DISTRICT ENERGY
ASSOCIATION



Robert Thornton
President & CEO, IEA

 iea
Energy Technology
Network



Robin Wiltshire, Technical Director, BRE
Chair, IEA Implementing Agreement
on District Heating & Cooling

 EUROHEAT
& POWER



Frederic Hug
President, Euroheat & Power