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OPC DAY 2014

UA at the Refinery

Valtteri Mustonen, Neste Oil
Co-Speaker: Keijo Yli-Opas, Neste Jacobs

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Agenda

- Short Introduction of Presenters
- Neste Oil in Brief
- Neste Jacobs in a Nutshell
- Neste Oil Naantali Refinery
- The Dehexanizer Unit APC Solution
- Why OPC UA, Benefits
- Q&A



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Neste Oil in Brief

A refining and marketing company focused on premium-quality traffic fuels

Refining capacity: 15 million t/a of petroleum products and 2 million t/a of renewable diesel

Net sales: €17.5 billion (2013)

Operations in 15 countries; employs approx. 5,000 people

Listed on the Helsinki Stock Exchange

Largest owner: the Finnish State (50.1%)

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Neste Jacobs in a Nutshell

Technology, Engineering and Project Services Company

- Personnel more than 1000
- Offices in Porvoo, Turku, Naantali, Kotka, Gothenburg and Abu Dhabi
- Local Site Offices: Singapore, Rotterdam and Nynäshamn
- Owners: Neste Oil 60% and Jacobs Engineering Group 40%

Business Areas

- Hydrocarbon Industries (Oil & Gas, Petrochemicals)
- Emerging Industries (Biorefining, Biopharma, Chemicals and Utilities)

Competence Centers

- Technology & Process
- Project Management & Engineering

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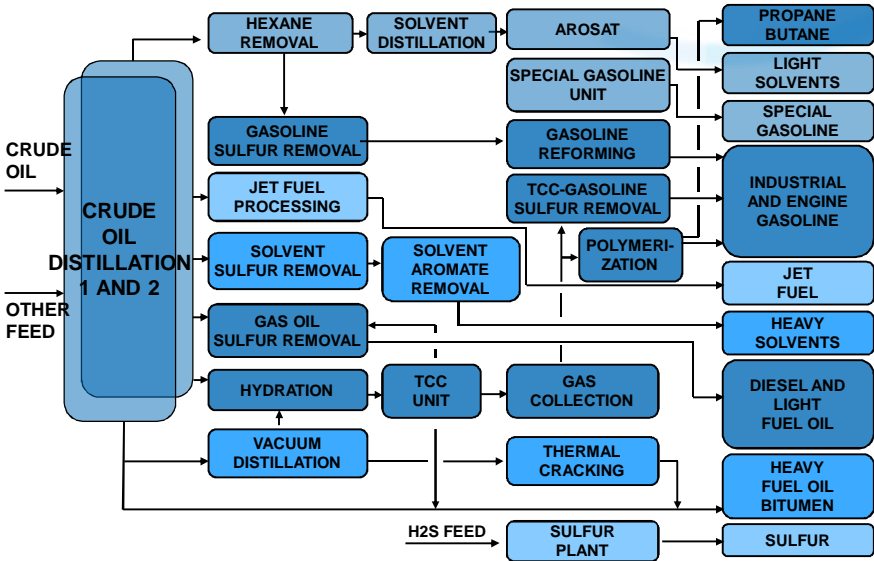
Neste Oil Naantali Refinery



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Oil Refining at Naantali Refinery



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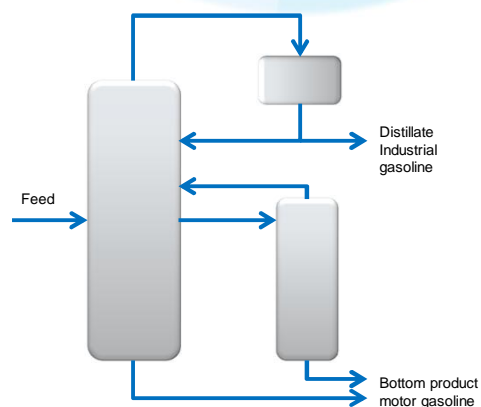
DEHEXANIZER UNIT APC APPLICATION

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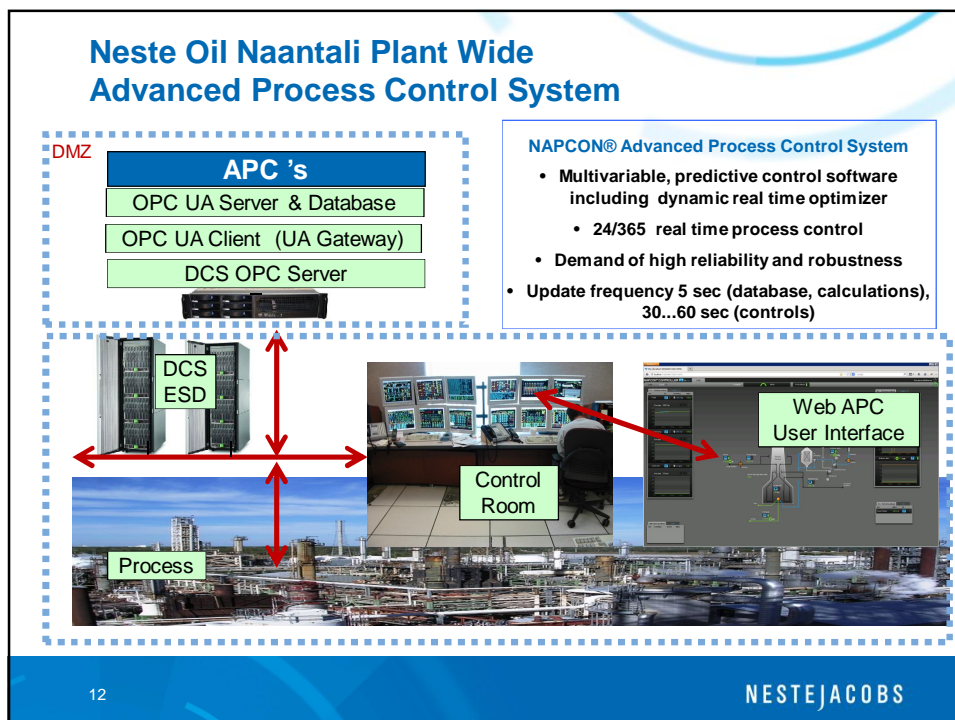
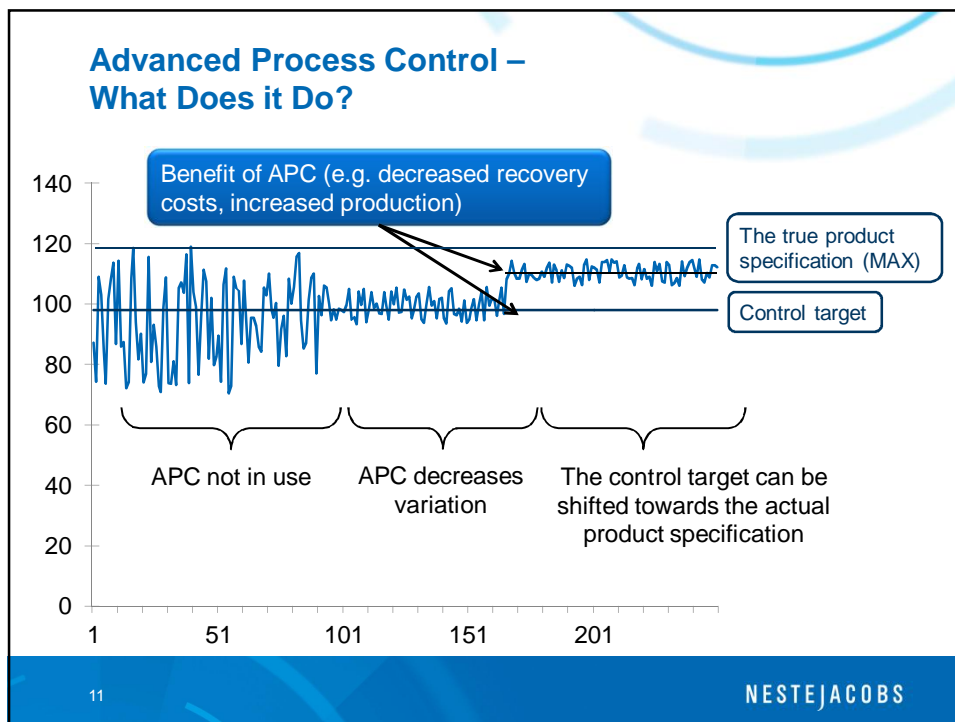
Dehexanizer Process Unit

- The purpose of Dexexanizer process unit is to remove hexanes in distillate in such a way that the columns bottom product has the desired amount of hexanes
- Optimization of the process unit is done by maximizing the amount of valuable bottom product - motor gasoline - against aromatics specification and minimizing the amount of distillate
- Feed : **40** tonnes / hour
- Estimated benefit is **X** k€/ year



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Why OPC UA? What is the Catch for Us?

- OPC UA plays a significant role in our future installations
- OPC UA gives us the means and possibilities to create SECURE and SCALABLE solutions
- We can make solutions that are tailor-made based on the needs of our business, but still based on a SOLID and STANDARDISED foundation
- Furthermore, the solutions are incorporated in our existing infrastructure
- And finally, the expected life cycle for this OPC solution is anything from 15 to 20 years

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Questions & Contacts

Questions, anyone?
Please, come and discuss at the booth!

Contact Persons

Mr. Valtteri Mustonen
Development Manager, Automation
Valtteri.mustonen@nesteoil.com

Mr. Keijo Yli-Opas
Product Manager, NAPCON® Controller
Keijo.yli-opas@nestejacobs.com

Mr. Jaakko Nauha
Sales Manager, NAPCON®
Tel. +358 10 458 7534
jaakko.nauha@nestejacobs.com

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