

CUSTOMERS & NESTE SUCCESS STORY

NAPPI

Optimized refinery steering at anytime

NAPPI

NAPPI is online tool for target setting and performance monitoring at Porvoo refinery

TO WHOM?

Production Managers & Refinery mgmt

Set targets & have transparency of how well production meets targets

Shift Managers

Control the production in the unit

Shift change meetings

Team discusses targets and outlooks twice a day

CUSTOMER NEEDS

Real-time understanding how well refinery is performing against set targets. **Less manual work** and **easy access for data** to enable for decision making.

TARGETS

Enhanced operational efficiency with **optimized production steering**. Accurate target setting and execution of the production plans creates more value. Transparency over the complex Porvoo refinery system



2018

Yksikkö	Ohjeellinen Q	Mittaus Q	Tavoite	Min	Max	Viikko Q
PAKOSUUNTOJENKAP		108.9 °C				26.01.2020 12:41:00
KARUKA CP		333.1 °C				26.01.2020 12:41:00
KARUKA CP		309.7 °C				26.01.2020 12:41:00
DALTONI TILITET VYTYNEN		882.2 t/h			600	
UPEKCO		202.0 t/h	1 027.5 t/h	1 035		
PE		91.1 t/h	108.5 t/h	90	104	
PE UPEKCO		29.9 t/h	47.5 t/h	30	60	26.01.2020 09:30:00
PE VARANTOIN		20.0 t/h	10.0 t/h	140		
KAR		14.0 t/h	10.0 t/h	140		
KAR KANAPESIT		11.4 t/h	42.7 °C	35	38	26.01.2020 09:30:00
KAR TOSI		366.7 °C	37.5 °C	130		26.01.2020 09:30:00
KAR TOSI		366.7 °C	31.0 °C	294	310	26.01.2020 09:30:00
KAR TOSI		366.7 °C	31.0 °C	294	310	26.01.2020 09:30:00
KAR UMI		349.5 °C		1	1	26.01.2020 09:30:00
KAR UPEKCO		346.5 °C	33.0 °C	33.0		26.01.2020 09:30:00
EGOP		414.4 t/h	425.0 t/h	410	420	

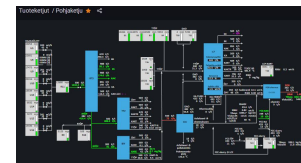
Data in many different systems and tools, no common view

2020 - 2021



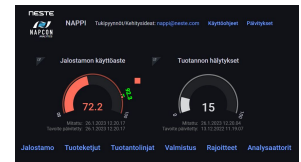
More views & more data sources

2019



NAPPI development starts with basic production line views

2022



New homepage & navigation structure

OUR SOLUTION

Nappi provides real-time views for optimized refinery steering. **It enables us to react faster.** We have shifted from looking past performance to using data in daily steering.

We have **one set of numbers in our use.** The whole OP organization uses the same data. Technology is provided to Neste internally by **NAPCON.**

FUTURE STEPS

Product chain reports
More data integrations
(UMS, Petro-Sim)



20/22

200 ACTIVE USERS

TO SUCCEED

Customer centric approach & agile ways of working; solution is built iteratively together with end users and constantly develop based on feedback.

Strong collaboration between development & end user teams.

NAPPI

NAPPI'S INTEGRATED DATA

Process data

Quality data

Blend & batches

Blending performance

SKED targets



VIEWS FOR DAILY STEERING

Different views eg. refining, blending & SCM dashboards

Performance against the targets and plan

Possibility to update targets online

Transparency to how changes in one production line will affect others

