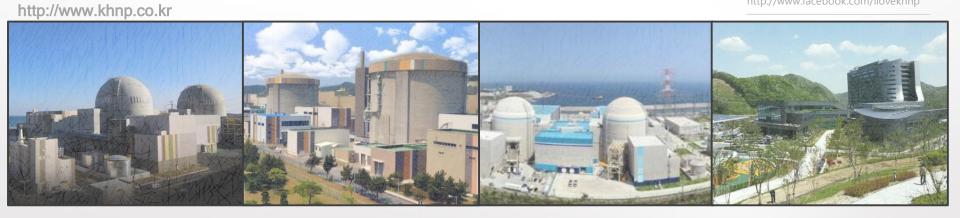
KHNP SCM



2023.04.23

http://blog.khnp.co.kr http://twitter.com/ikhnp http://www.facebook.com/ilovekhnp



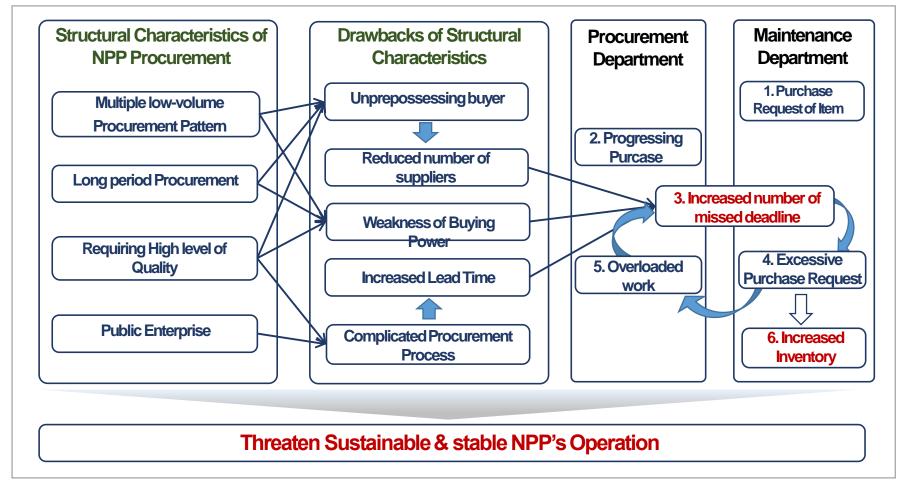
Agenda

- 1 Overview of KHNP SCM
 - 1.1 Background
 - 1.2 KHNP SCM Definition
 - 1.3 KHNP SCM strategy
- 2 Introduction of KHNP SCM
- 3 KHNP SCM Status & Future



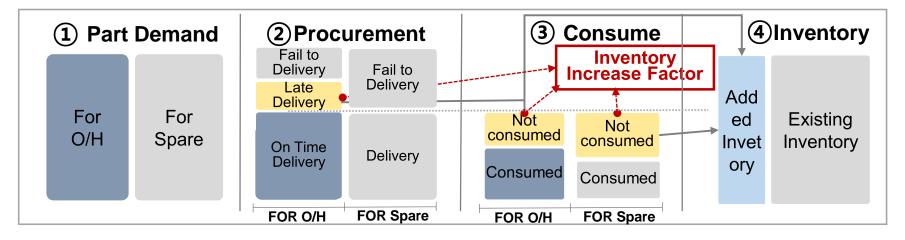
1.1 Background(1/2)

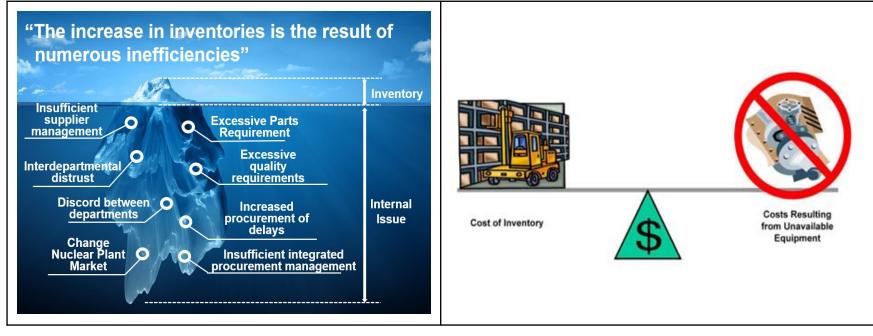
- SCM, applying with nuclear power plant (NPP) business, gives priority to 'Procurement' for stability & safety of NPP's operation & maintenance
- General drawbacks appeared in procurement is as below;





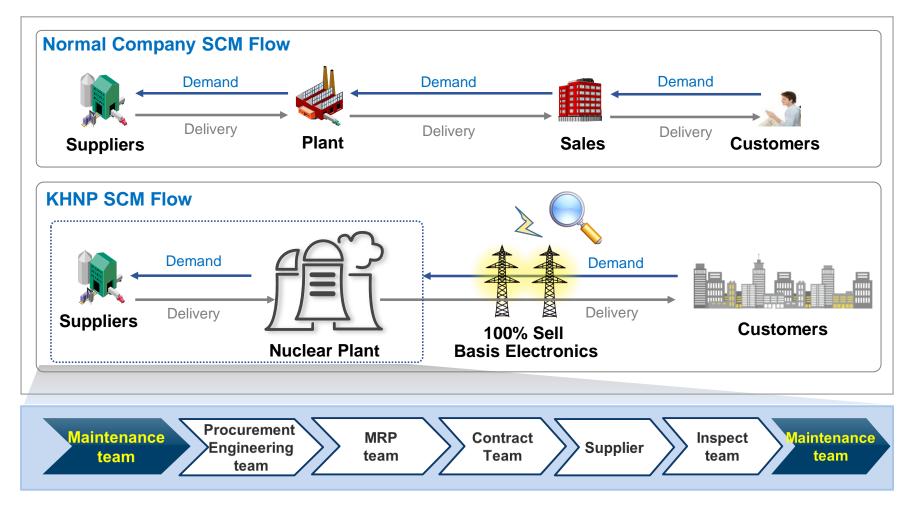
1.1 Background(2/2)







1.2 KHNP SCM Definition(1/2)



- XKHNP SCM is different from manufacture company which product item and sell it to final customer.
- X KHNP SCM's customer is maintenance team and we apply NPP's own S&OP and Forecast.



1.2 KHNP SCM Definition(2/2)

A supply chain management system unique to nuclear power plants that comprehensively manages suppliers and internal purchasing processes to ensure timely supply of quality products at reasonable prices in line with nuclear safety.

1 Innovation of Procurement Process

 Elimination of any wasted task on procurement process

03 Establishment of SCM Structure

- Integrally connected SCM
 - Share SCM strategy, goal and outcome
 - Securing Visibility from supply chain
 - Discovering issue/assignment and predicting variability

In-time Delivery Healthy Nuclear Power Industry

KHNP SCM

Supply guaranteed items with rational price in proper time

Integrated SCM System

Creating Reliability
Of Quality

02 Inducing the participation of suppliers

- Increased motivation of suppliers due to rational price and business support
- Educate/Evaluate suppliers
- Establishment of supplier management System

04 Quality Verification

- Internalization of Inspection procedure & compliance of fairness
- Blocking any factor caused to low-quality

Factors

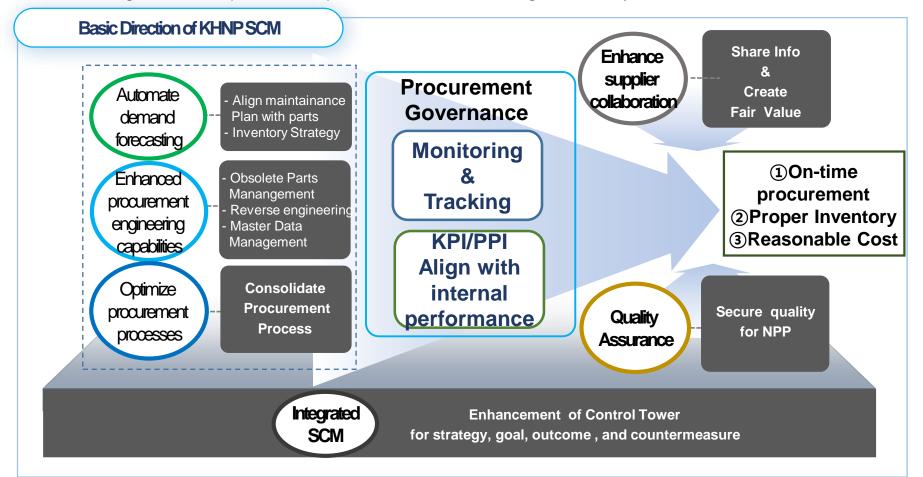
Public Enterprise, Nuclear Power Industry, Internal, External

Basic Direction Standardization, consolidation, Connectivity, Quality & Supplier management



1.3 KHNP SCM Direction

- The basic direction of KHNP SCM is to complete the procurement virtuous cycle of proper request, timely procurement, and proper inventory
- All management and improvement of procurement in KHNP SCM governance system

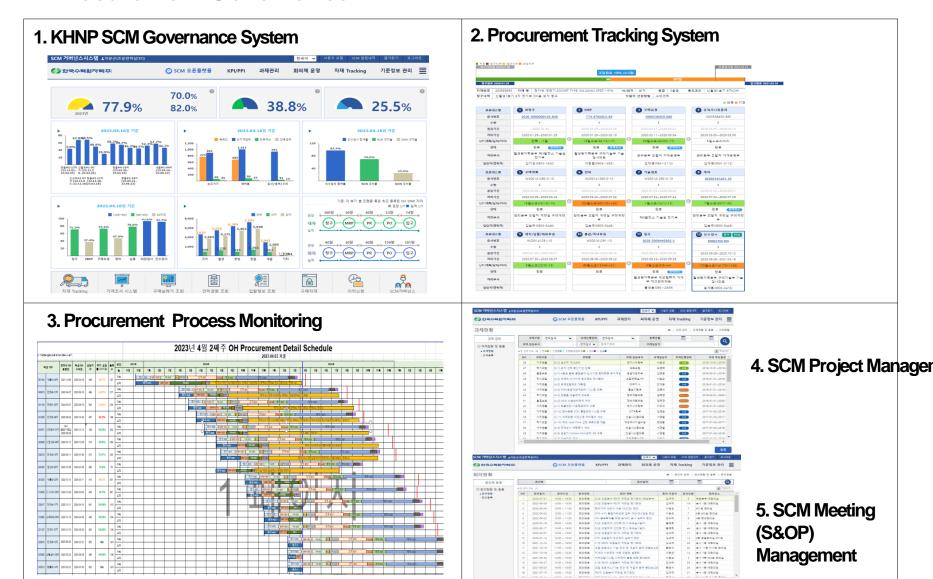


Agenda

- 1 Overview of SCM
- **2** KHNP SCM Major Function
 - 2.1 Procurement Governance
 - 2.2 Forecast Part Demand
 - 2.3 For On Time Delivery Spare Part
 - 2.4 Inventory Optimization
 - 3 KHNP SCM Status & Future



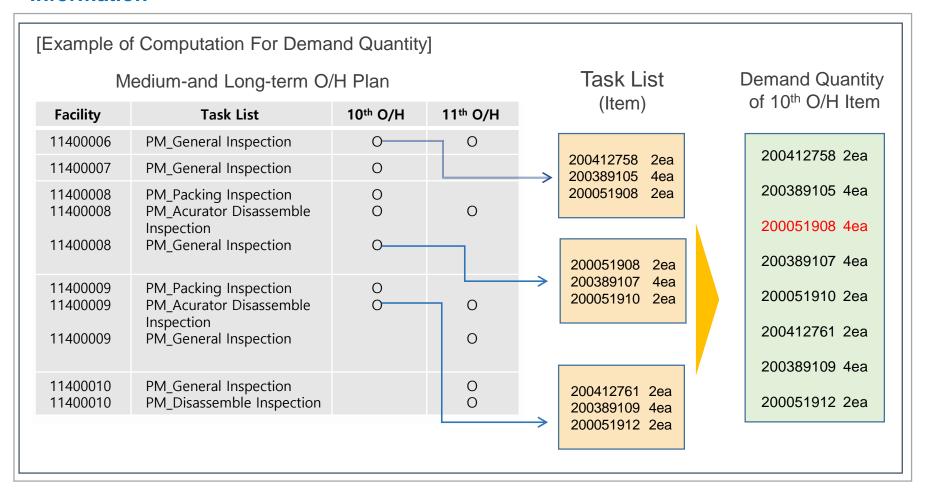
2.1 Procurement Governance





2.2 Forecast Part Demand

Securing accuracy & objectivity through the computation of Demand Quantity for O/H item, applying with medium-and long-term O/H plan, task list, and connected item information





2.3 For On Time Delivery Spare Part



An agreement made between KHNP and a foreign supplier to facilitate and expedite the process of negotiating and reaching an agreement on the technical, commercial and pricing terms relating to the materials to be purchased by KHNP

SPA likes HI-Pass



Before SPA Program Long time required for repeated review/agreement of technical specifications, quality requirements, commercial matters, etc. for each contract



Phase#1 SPA Program

Prioritized agreements centered on high volume, high frequency purchase items

Shorten L/T and On time delivery rate high



Phase#2 SPA Program Include most suppliers and items in the agreement

Expedited procurement, system automated procurement implementation

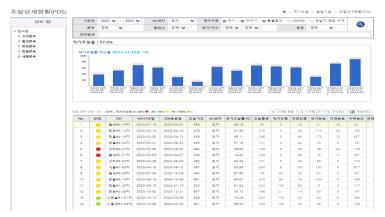
MTO (Make to Order)



MTS (Make to Order)

Spare Parts manufacturing section takes the longest period In KHNP Procurement Process
So we try to change way of Nuclear Part Procurement from MTO to MST by give KHNP Forecast and confirmed procurement plan

Procurement Detail Schedule Management





2.4 Inventory Optimization



Snapshot Inventory Data Monthly

We save Inventory Data Monthly about 14 million line data to compare each month inventory change and to analyze what change and why change in inventory

Align Nuclear Plant Director Performance



Agenda

- 1 Overview of SCM
- 2 KHNP SCM Major Function
- 3 KHNP SCM Status & Future
 - 3.1 Progress Procurement KPI
 - **3.2 Procurement Process Optimization**
 - 3.3 Future KHNP SCM

3. KHNP SCM Status & Future



3.1 Progress Procurement KPI

KHNP has achieved continuous improvement in procurementrelated core KPIs through the SCM system and SCM operation after establishing the system, and continues to develop a unique SCM system for the nuclear power industry.



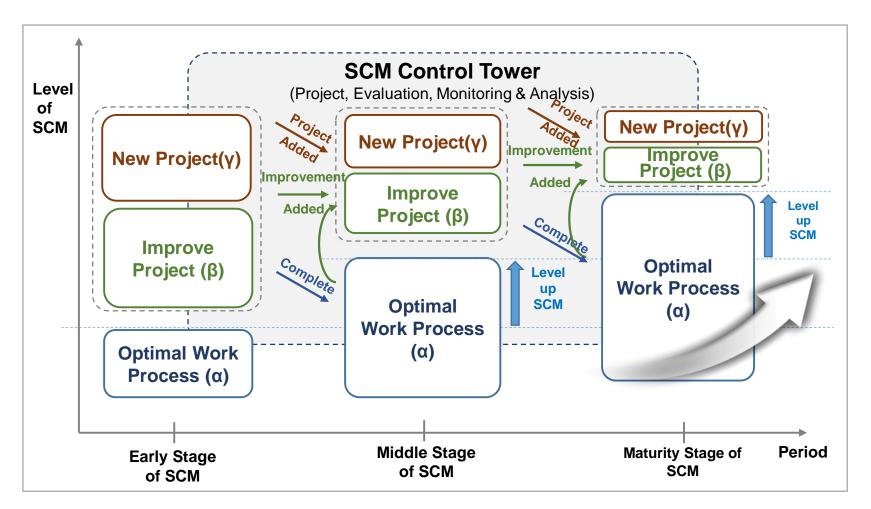


3. KHNP SCM Status & Future



3.2 Procurement Process Optimization

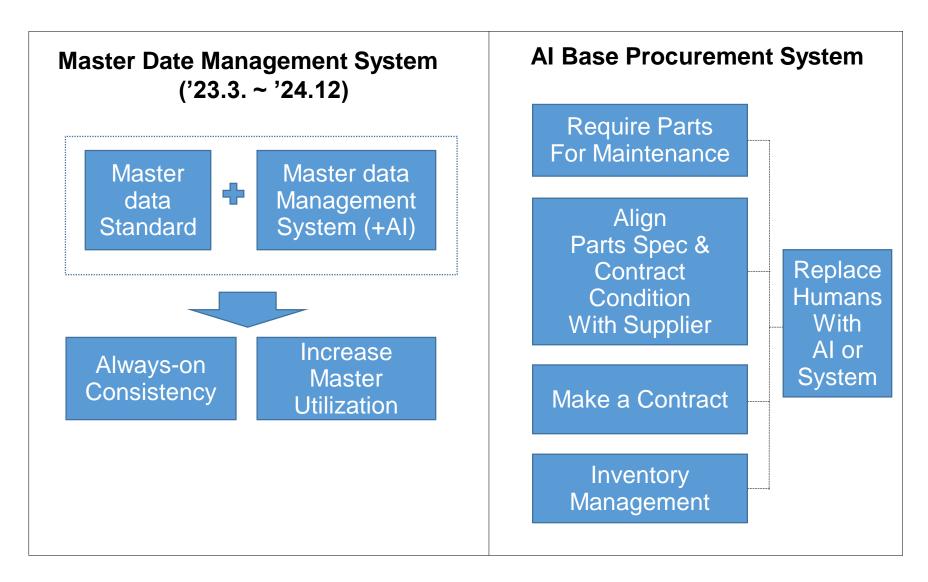
Maintain optimal SCM structure with Performance Management, Monitoring,
 Problem Solving & improvement



3. KHNP SCM Status & Future



3.3 Future KHNP SCM



THANK YOU

