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OCTOBER 2024

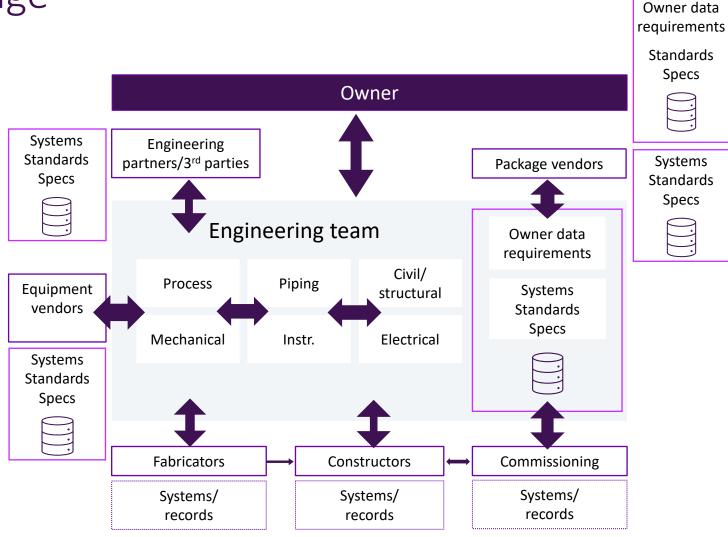
Unified Engineering 3.0

The Green Hydrogen Story

Brian Hughes & Marcel Proesch



The Challenge



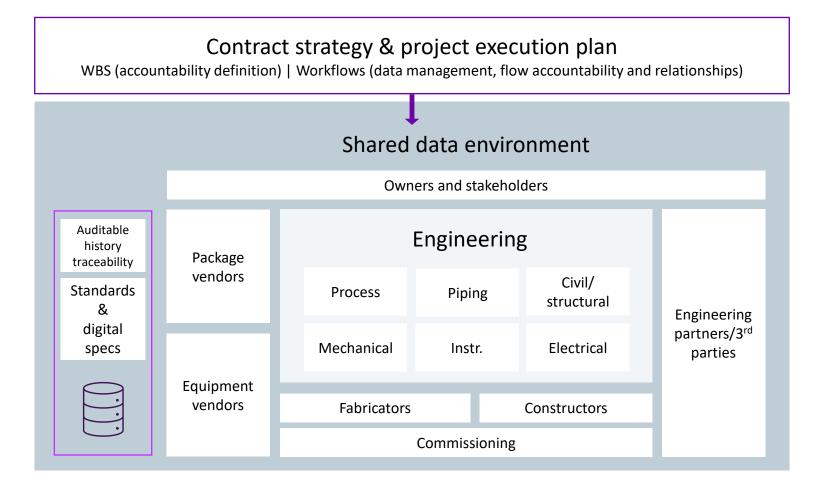
Engineering 3.0

Disconnected systems, teams and project data

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The Challenge

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Engineering 4.0

Connected systems, teams and project data

The Challenge

Collaboration challenges for current solutions



Multiple technologies drive incremental cost and have performance limitations

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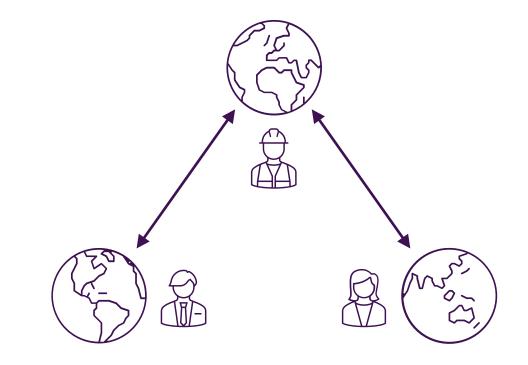
Significant time and cost for both setup and maintenance require experienced resources



IT security and data access controls demands limit extent of data sharing and collaboration



Brittle configurations that cannot be adjusted as projects, facilities, and businesses mature



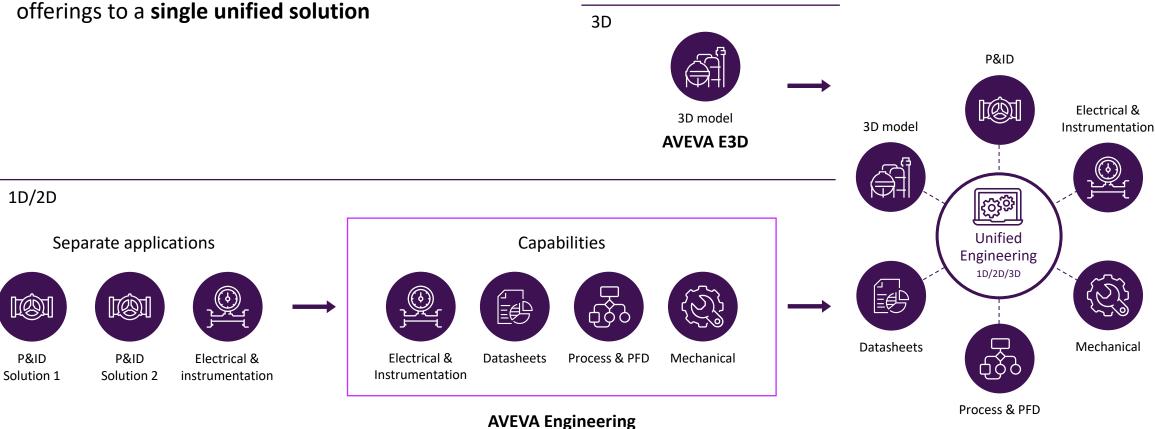


AVEVA[™] Unified Engineering

Evolution to a single unified solution

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Evolving from separate commercial and technical offerings to a single unified solution

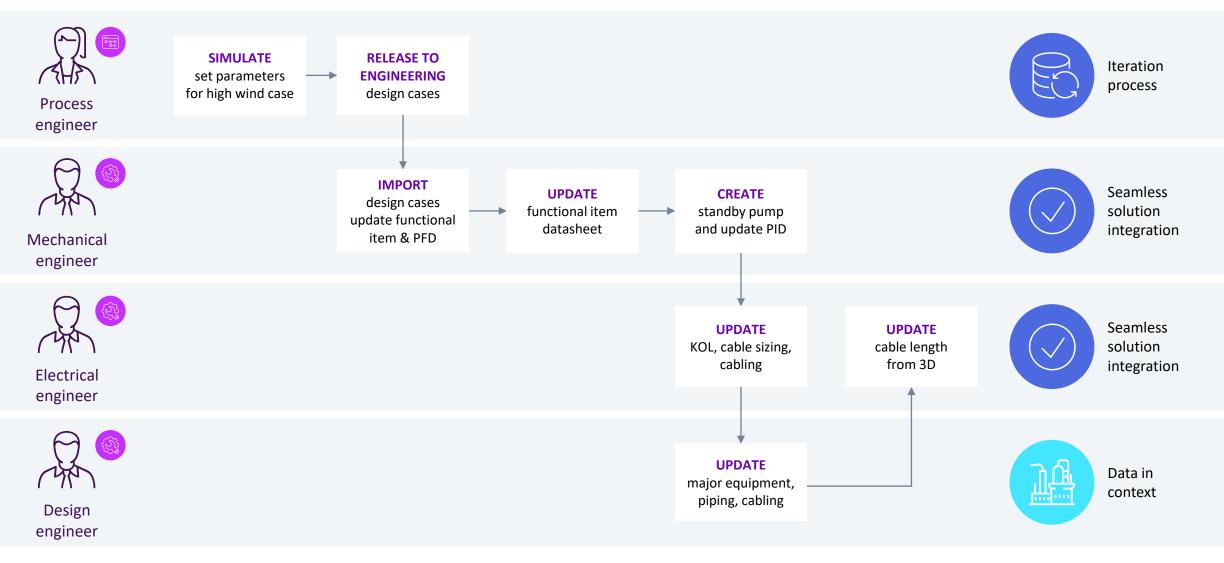




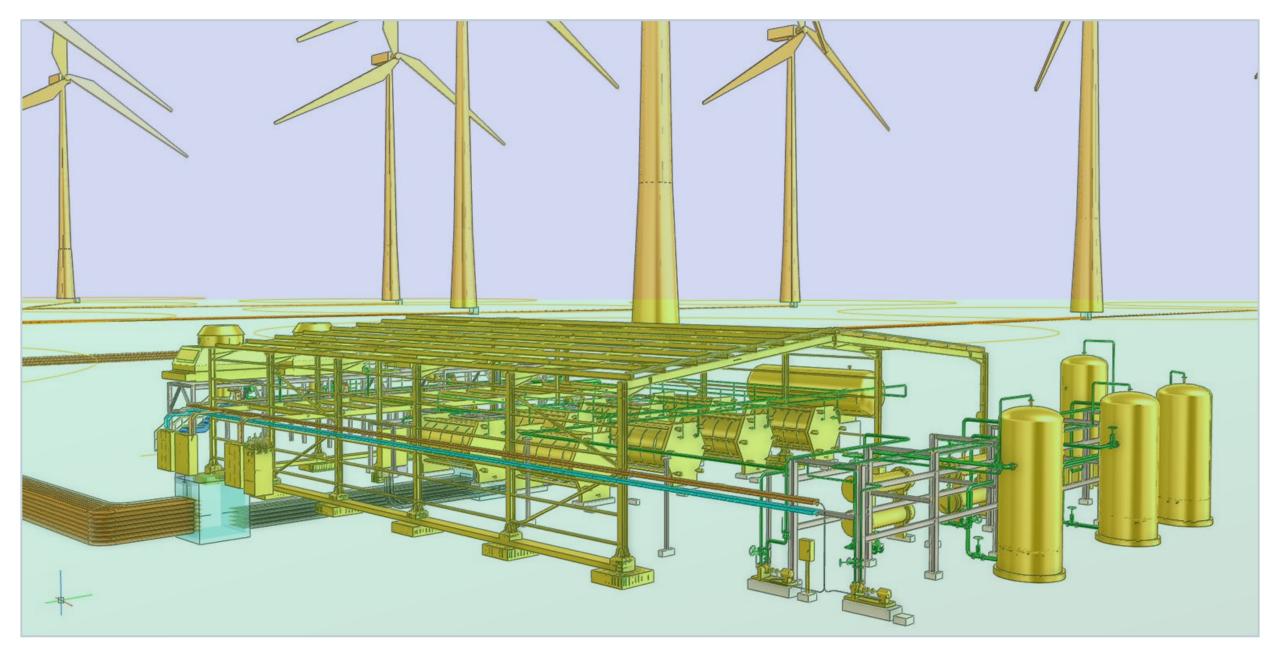
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P&ID

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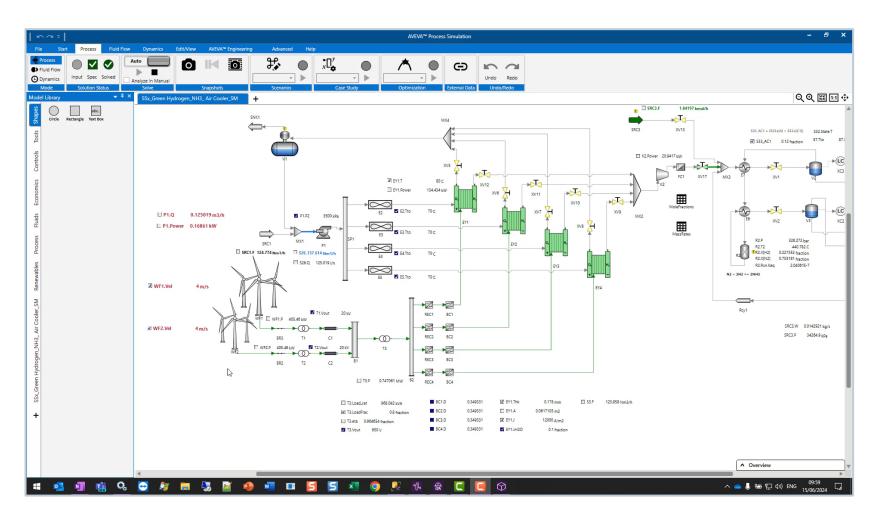






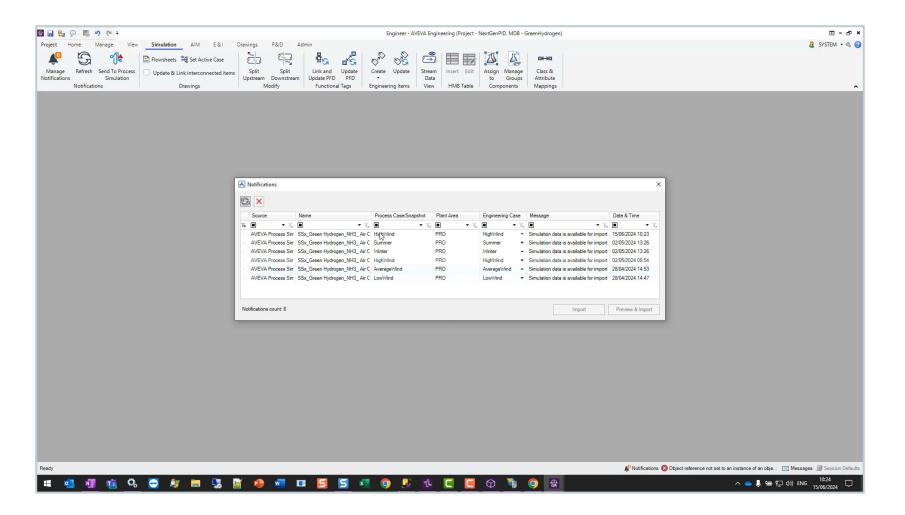
AVEVA[™] Process Simulation

Simulate high wind case and publish to engineering



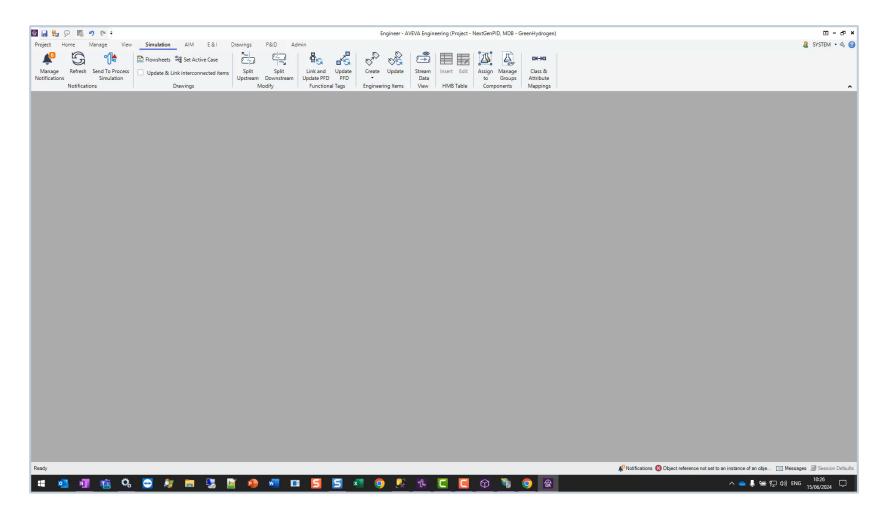
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Import simulation case and update functional item on PFD

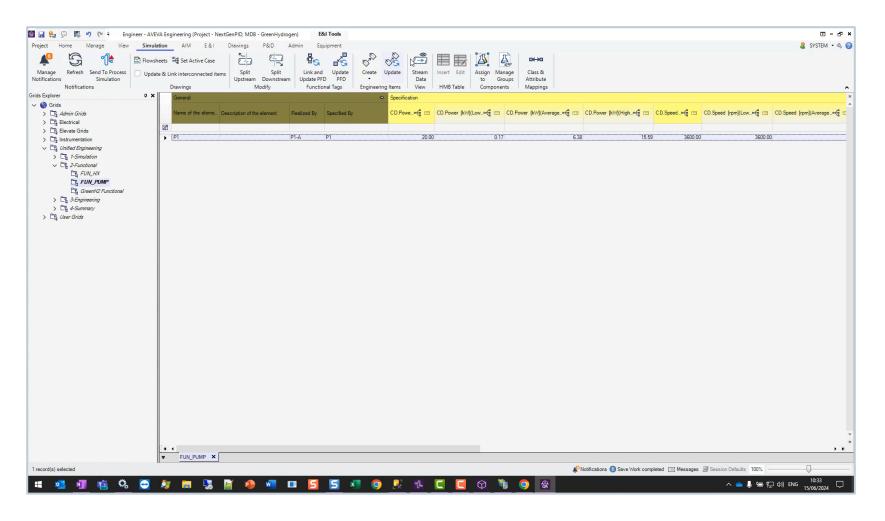




Define governing case

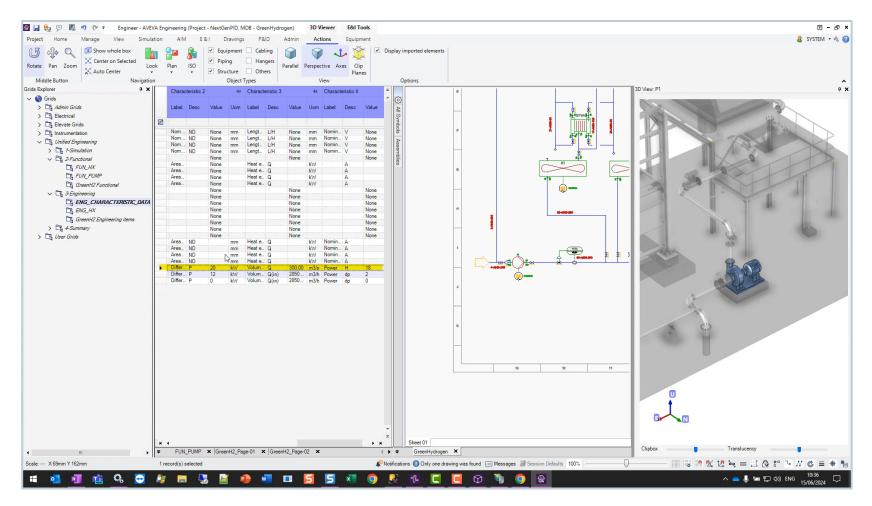


Update engineering items on P&ID

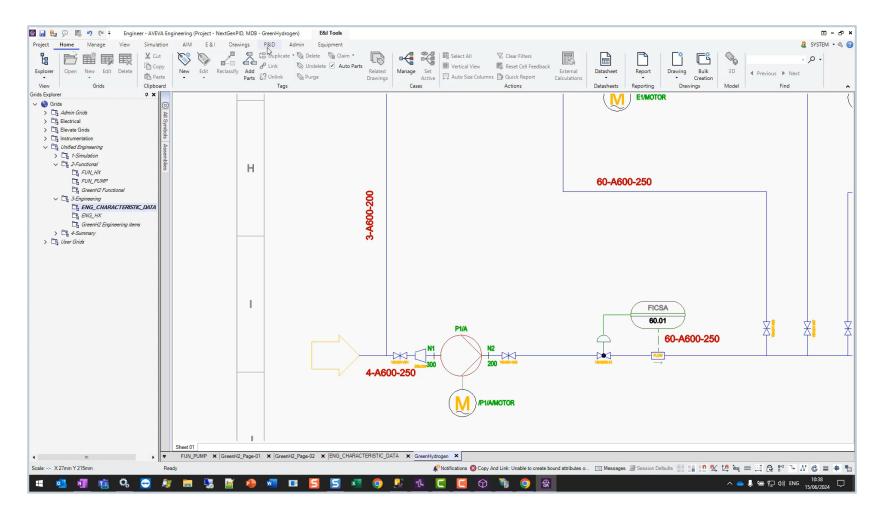




Duplicate feedwater pump

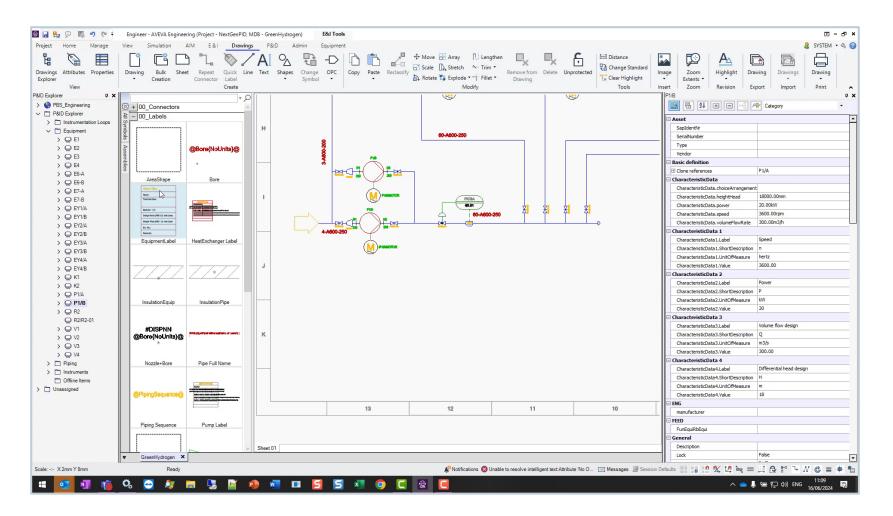


Update P&ID



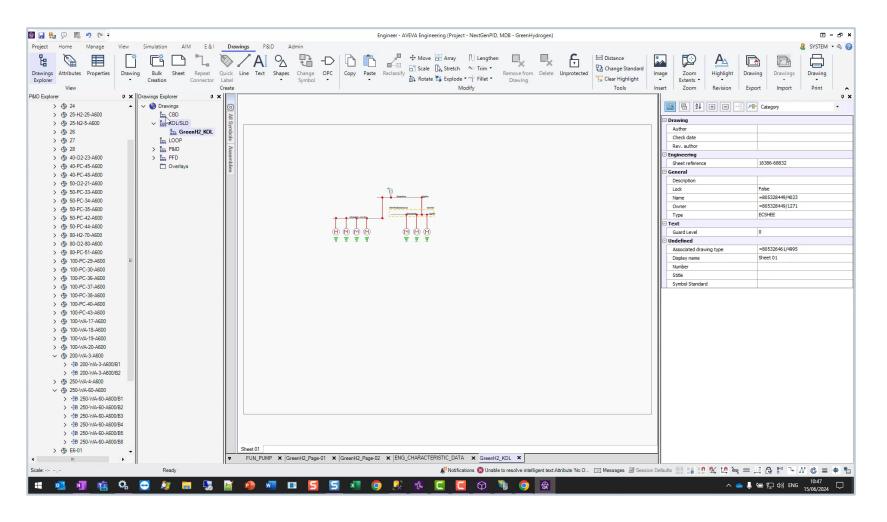


Add labels to the equipment bar on P&ID



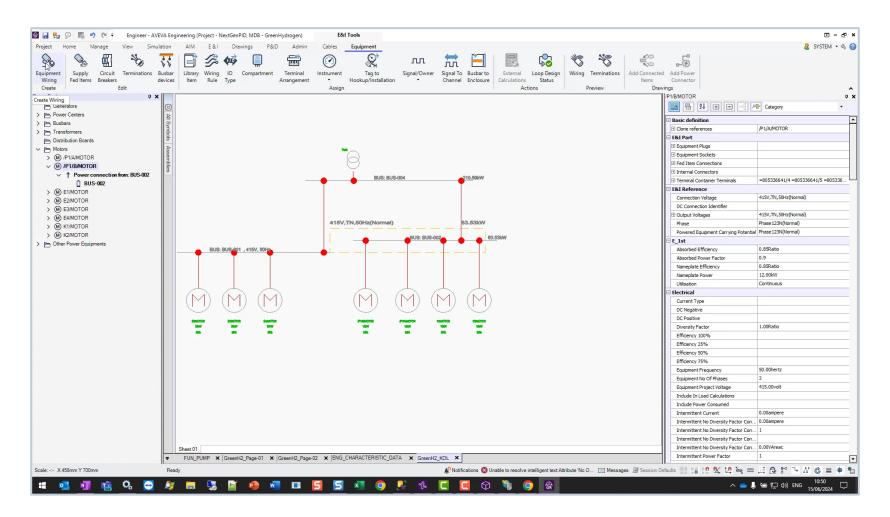


Update KOL drawing





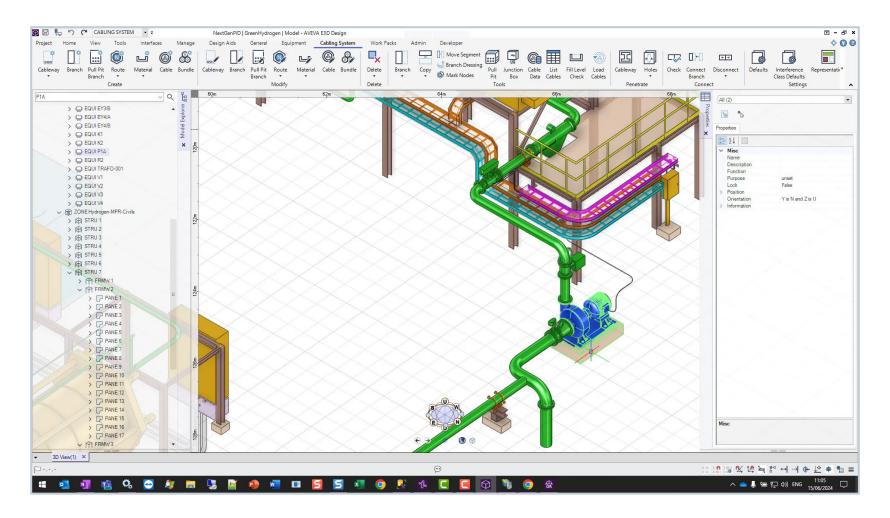
Create cable sizing and power cable





AVEVA™ E3D Design

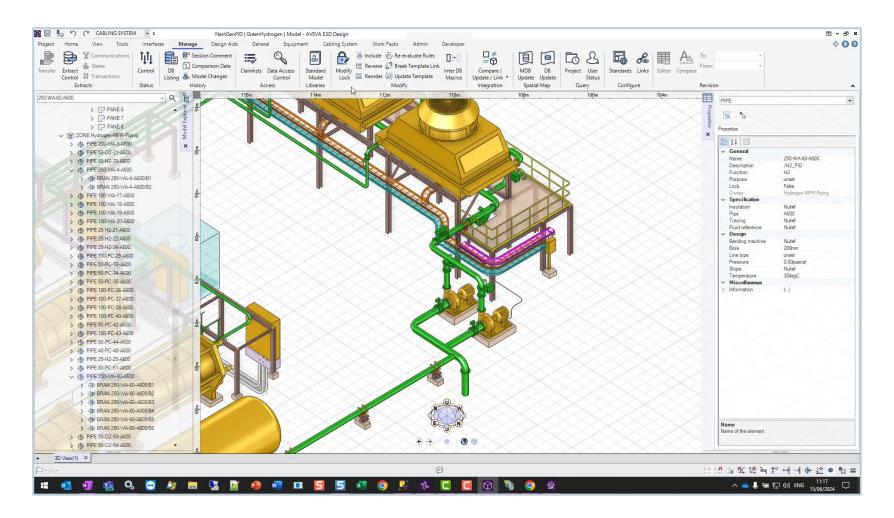
Copy existing feedwater pump and modify connected piping





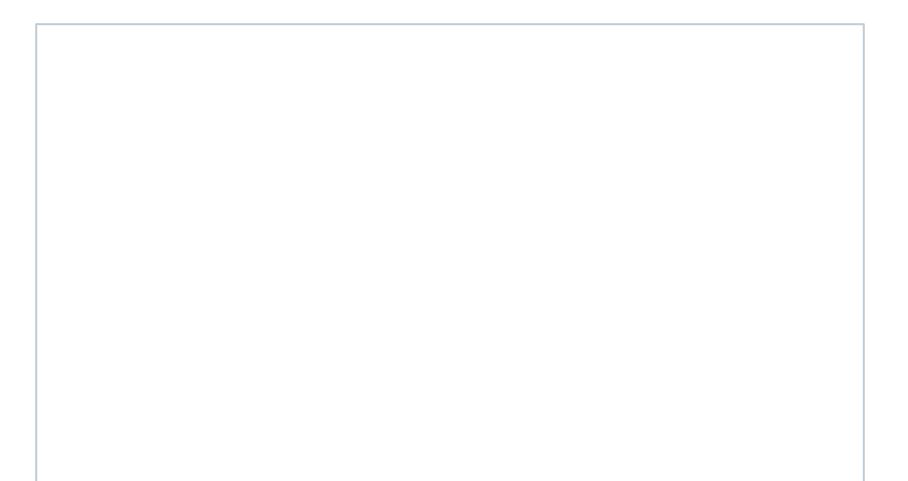
AVEVA™ E3D Design

Import cable by compare and update and route cable

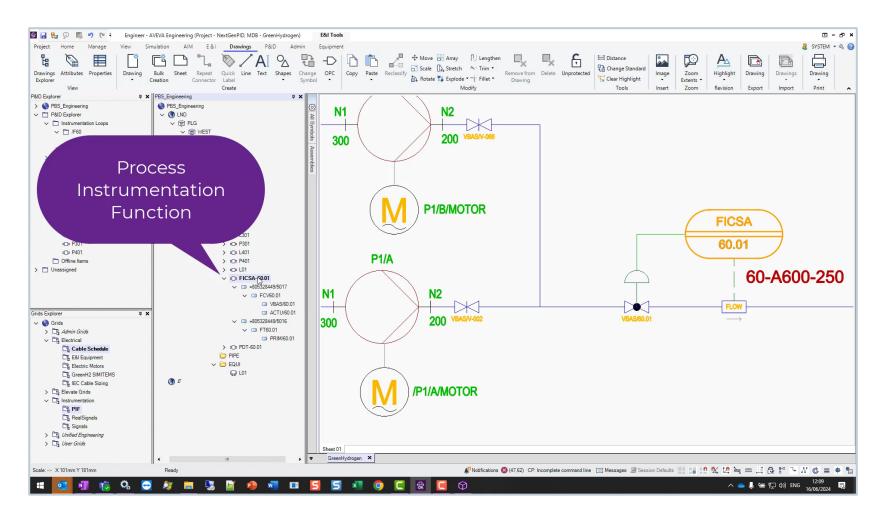




Import length by compare and update from AVEVA E3D Design

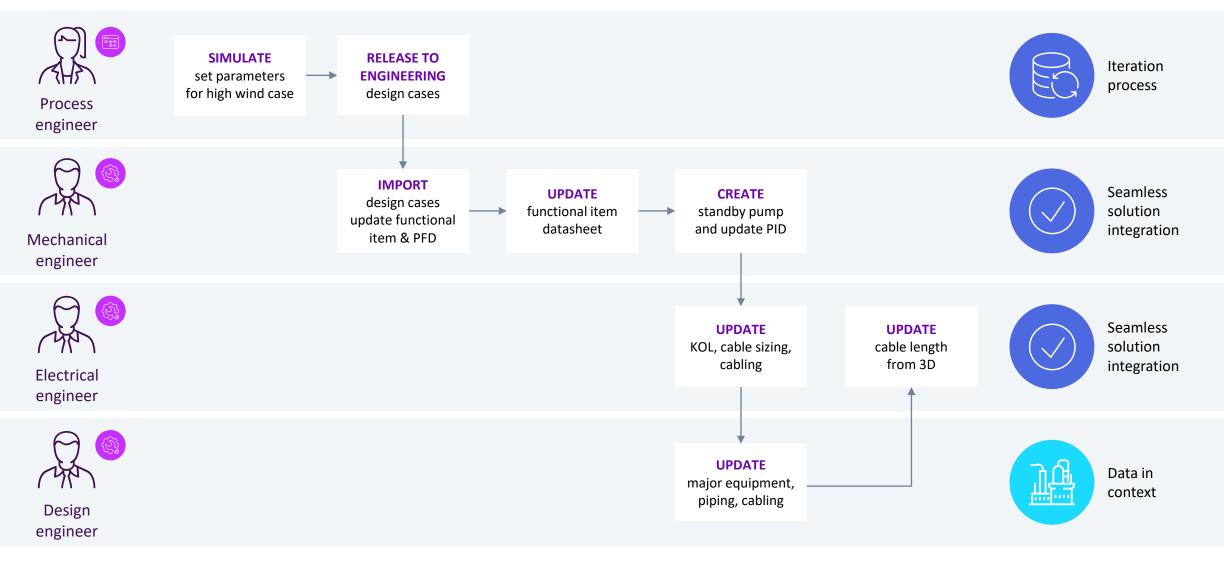


Review the flow control loop





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Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

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