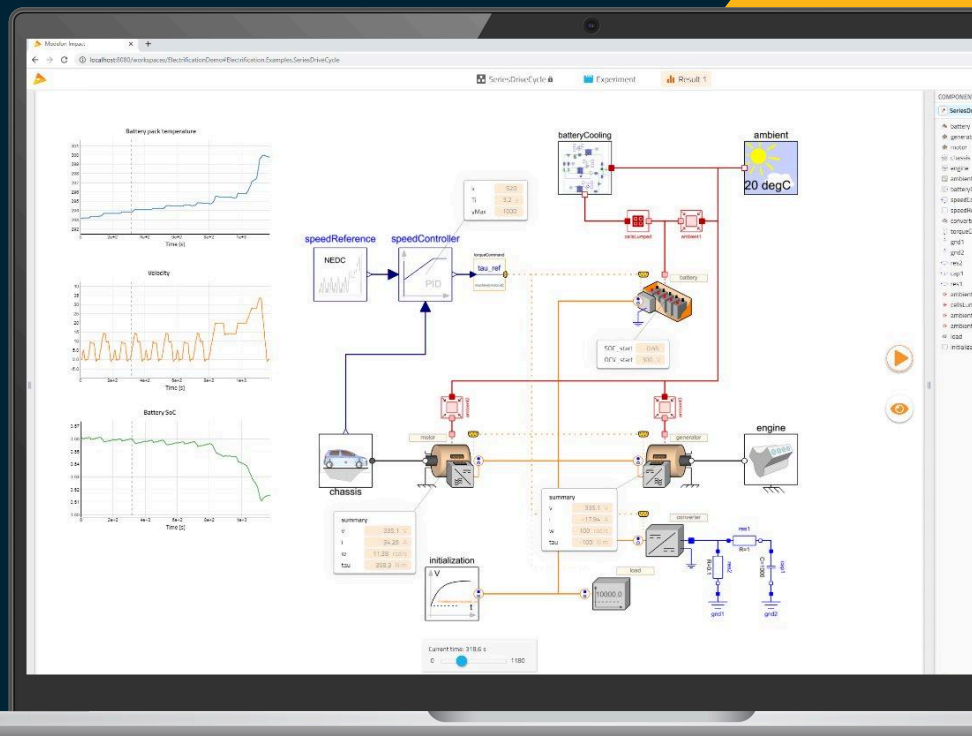


OVERVIEW BROCHURE

Modelon Impact

The next-gen, cloud-native platform to design, simulate, and analyze physical systems.



What is Modelon Impact?

With decades of experience advancing system simulation, Modelon is a trusted partner for organizations engineering physical systems.

Our flagship product, Modelon Impact, is a cloud-native modeling and simulation platform built on the Modelica language—delivering engineering insights from design to deployment.

Collaborate with your team and beyond.

Share simulation data with colleagues or stakeholders through a simple web link, even if they're not users or part of your team.

Powerful simulation, anytime anywhere.

Run and manage simulations from any device with an internet connection — no install, no IT headaches.

Model complex, real-world systems.

Accurately simulate steady-state and dynamic behavior in a Modelica-based environment that captures fundamental physics.

Multi-domain, unified modeling.

Simulate systems across thermal, electrical, mechanical, and other domains — all within a single model.

Customize down to the code layer.

Edit model code for fine-tuned control and customization.

Expert support, every step of the way.

Modelon's team of industry and simulation experts are here to guide you from setup to solution.

"Modelon Impact allowed us to build a robust transient system model. Their customer success team consistently answered questions and were hands-on in helping us make progress. Doing transient analysis of the model in Modelon Impact gives us insights to share with our customers and increases their confidence in our offering."

- Michael Johnson, Senior Engineer,
Babcock Power

Unleash Powerful Modeling and Simulation

BUILD

Modelon Libraries: Access a comprehensive suite of pre-configured and customizable components.

3rd Party Library Support: Quickly add open-source libraries to Modelon Impact and design your model.

Powerful Integrations: Exchange models and results by connecting to JupyterLab, GitHub, Excel, Python, and FMI-compliant tools for flexibility and interoperability.

Model & Workflow Builder: Organize and build detailed system models and workflows.

ANALYZE

Experiment Setup: Execute multiple simulations with parameter sweeps, compare configurations easily.

Analysis View: A dedicated space for data visualization, users configure plots and graphs simultaneously for analysis.

Modelica Compiler: Transform system models into optimized executable code for accurate and efficient simulation.

COLLABORATE

Version Control: Facilitate team collaboration with shared workspaces and integrated version control systems.

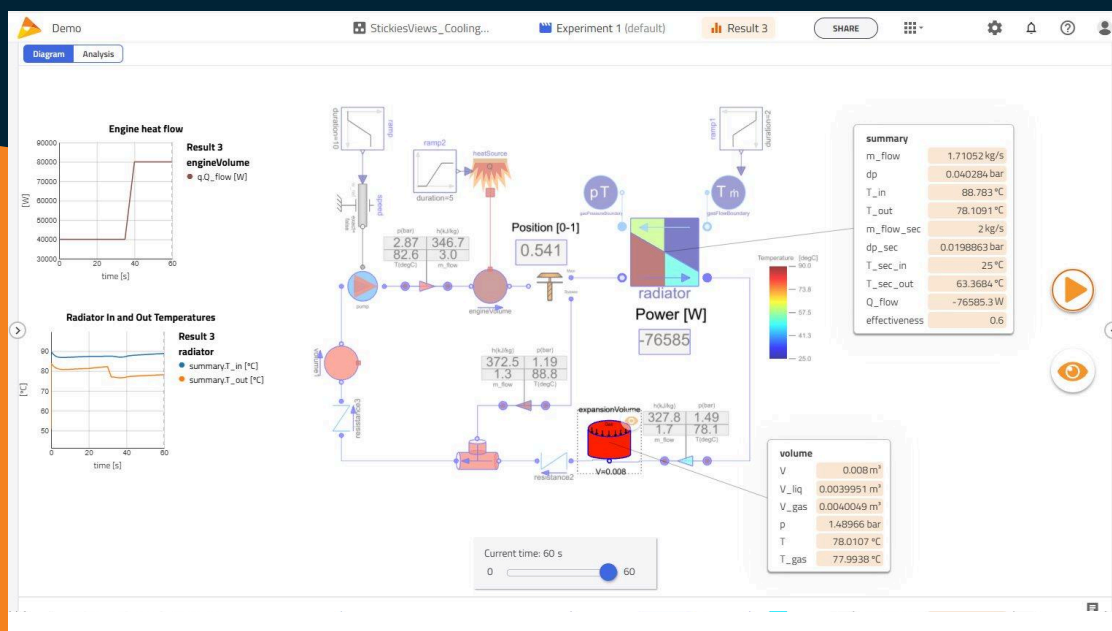
Cloud Sharing: Deploy models and share workspaces for enhanced accessibility and scalability.

App Mode, Excel Add-in, & Jupyter Notebooks: Extend functionality and integrate with familiar tools to enhance productivity.

LEARN

Help Center: Comprehensive resources to support users at every step.

Expert Support: 1:1 support from simulation and industry experts ensuring your success.



Core Applications of Modelon Impact



Vapor Compression Cycle Modeling

Simulate refrigeration and heat pump cycles for improved efficiency and component sizing.



Control Refinement for Thermofluid Systems

Validate and fine-tune control strategies with dynamic, physics-based system models.



Battery Thermal Management

Ensure optimal battery performance and longevity through precise thermal simulations.



Energy Systems Optimization

Design and simulate energy systems for performance and optimal operating expense.

“Modelon’s established authority and credibility in energy systems modeling and their pace for developing a cloud-based platform [Modelon Impact] aligned with our roadmap and mission – to bring advanced thermal energy and storage systems to a global market with speed and assurance.”

- Emmanuel Jacquemoud, Technical Project Lead ETES, MAN Energy Solutions

“Modelon Impact has been instrumental in modeling complex HVAC systems, including chiller plants. Modelon’s advanced capabilities allowed us to create Functional Mockup Units (FMUs) that enabled seamless collaboration with our research partners. The software’s capabilities and ease of integration have truly empowered our team to push forward innovative solutions in energy-efficient building technologies.”

- Mathieu LeCam, Senior Research Scientist in Grid-Interactive Efficient Buildings, BrainBox AI

Request a demo at [Modelon.com](https://www.modelon.com)