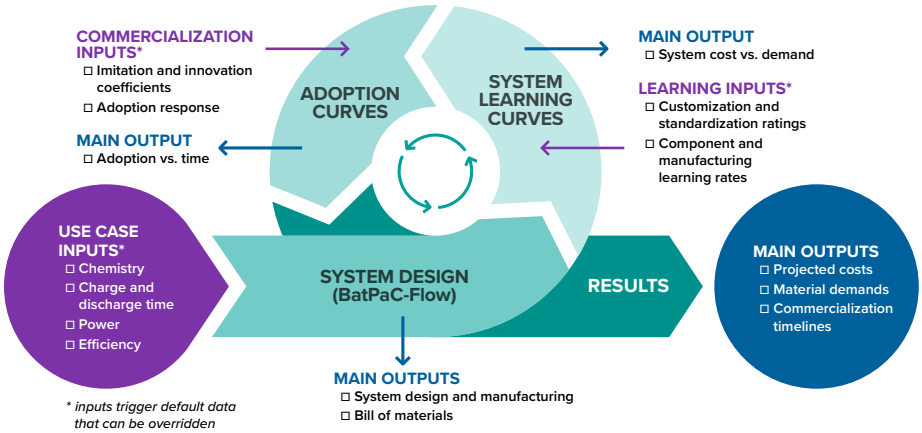
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Argonne NATIONAL LABORATORY

FLOWBACC AND BATPAC-FLOW

Tools for assessing redox flow battery design, manufacturing cost, commercialization rates, and market adoption.

The Battery Performance and Cost Model for Flow Batteries (BatPaC-Flow) and the Flow Battery Cost and Commercialization Tool (FlowBaCC) are new tools developed at Argonne National Laboratory to help researchers, technology developers, manufacturers, investors, and policymakers better understand the cost and commercialization pathway for redox flow batteries. BatPaC-Flow is a bottom-up performance and manufacturing cost model that is integrated into FlowBaCC to link battery design and manufacturing with forward-looking cost and market adoption projections.



Please contact flowbacc@anl.gov for major issues or bugs while using the tools.

These tools were developed with funding support from the Department of Energy Advanced Materials and Manufacturing Technologies Office.

CORE CAPABILITIES

- ☐ Translates system chemistry, power, and duration into a design, bill of materials, detailed cost breakdown, and estimate of the levelized cost of storage
- ☐ Includes a 17-step manufacturing cost model covering stack, electrolyte, and system assembly
- ☐ Integrates expert knowledge to generate learning curves, adoption curves, and scale-up analysis.
- ☐ Facilitates what-if analysis, sensitivity studies, and uncertainty quantification around manufacturing scale-up, market adoption, and cost reduction pathways

For collaboration inquiries, contact **Kevin Knehr, Ph.D.**
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Scan the code to access the tools.

U.S. DEPARTMENT of ENERGY | Office of Critical Minerals and Energy Innovation
Advanced Materials and Manufacturing Technologies Office

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