Production planning for lithium-ion based battery storages using reinforcement learning

Current situation
The production of battery storages is a complex process, which requires an enormous preparation of the production machines depending on the produced system. Long-term production planning is necessary to reduce the costs for a conversion of the manufacturing systems. At the moment, this production planning is done based on human experience and strongly depending on the skills of the planner.

Objective
Within this project, a planning tool shall be developed to derive a production strategy. The strategy shall be determined by reinforcement learning.

Profile of requirements
Personal initiative and creativity, reliability, structured working, first experience in PYTHON and reinforcement learning

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