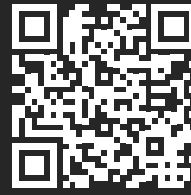


Future R&D Needs



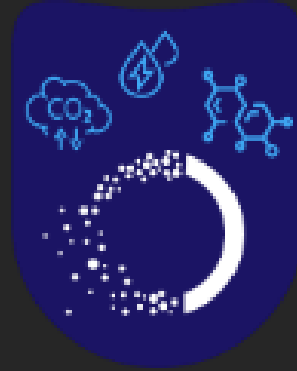
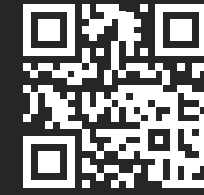
Efficient, Integrated Grid

net-zero, renewable-ready



able to support EVs and charging infrastructure

EVs2Scale



Clean Energy Generation

production, distribution and end use of low-carbon fuels



deployment of new technologies



System Resilience

prepared for climate & weather impacts

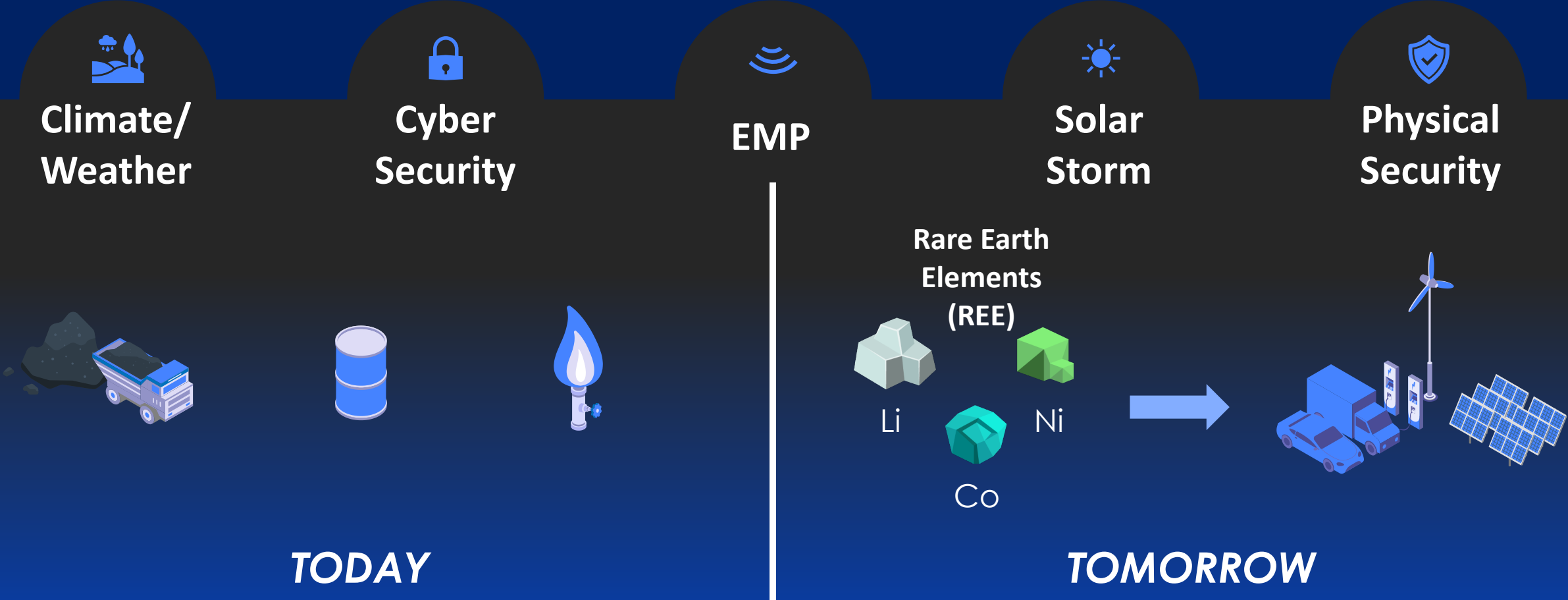


operating in consistent framework with proactive investment



Energy Security Key for the Energy Transition

KEY CONSIDERATIONS



The energy system is moving from a fuel intensive to material intensive supply chain