

ANM6Easy

Costs (= -reward)

Energy loss

Constraints violation
penalty

0

1

0.02

0

100

0.17

December 1

12:45

Year count: 0

Legend

1. Indices

① Device ID

0 Bus ID

2. Devices

⚡ Classical generator (slack device)

🏠 Residential aggregation (load)

☀️ Solar farm (renewable generator)

🏭 Industry (load)

🌬️ Wind farm (renewable generator)

🔌 EV charging station (load)

🔋 Distributed energy storage unit

⚡ HV-to-MV transformer

3. Power injections

🟢 Power injection > 0 (MW or MVar)

🟡 Power injection < 0 (MW or MVar)

🔴 Curtailed active power injection (MW)

4. Branch flows

🟡 Apparent flow ÷ branch rating (%)

➡ Direction of active power flow

5. Storage

🟠 Stored energy (MWh)

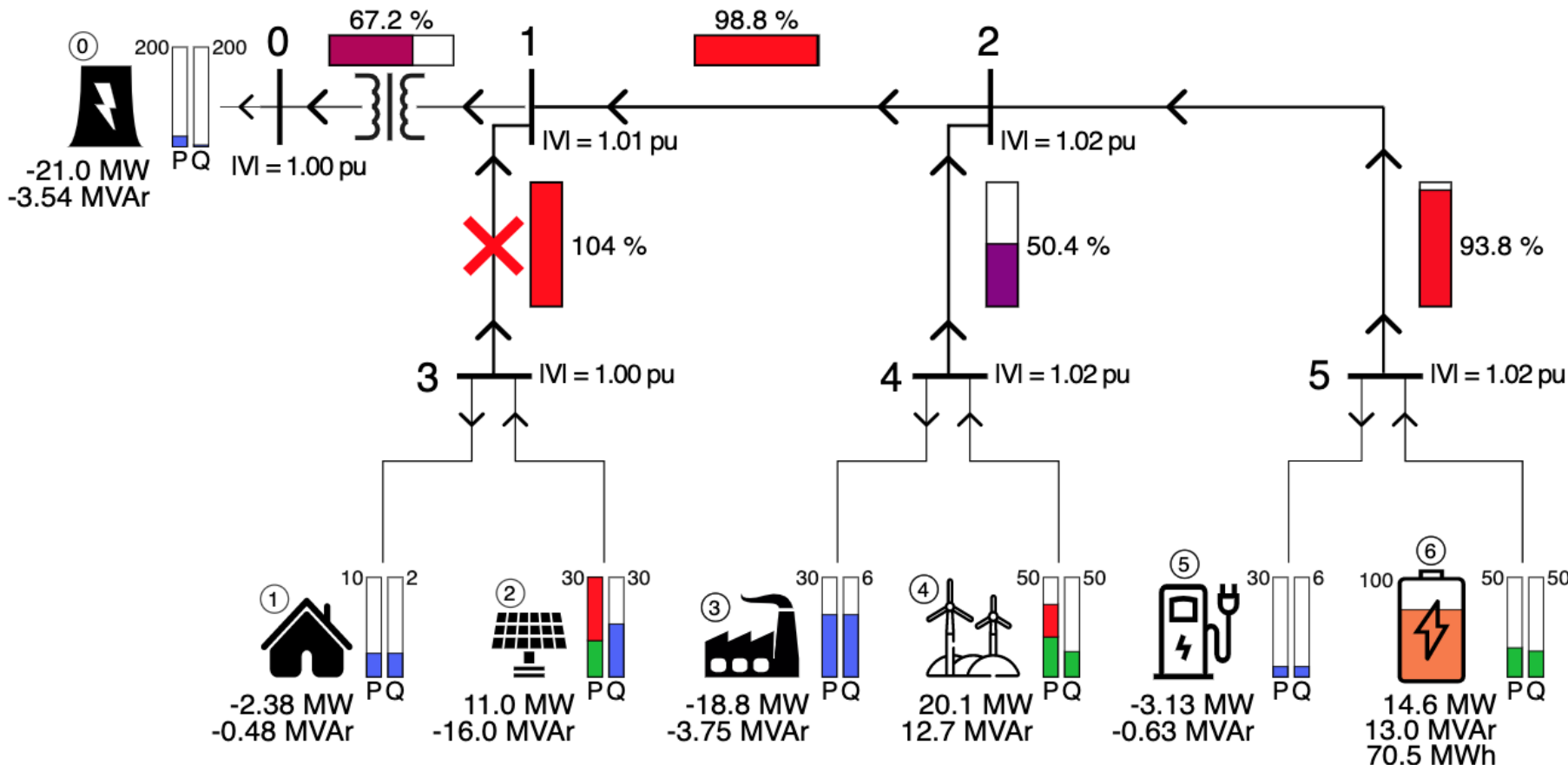
6. Constraints violation

✗ Branch flow or bus voltage magnitude constraint violated

7. Costs & rewards

🟢 Cost < 0 (reward > 0)

🔴 Cost > 0 (reward < 0)



Terminal state: ☐