Solar PV array on the roof (whole building)

BESS enclosure, 271 kWh LiFePO4 (separated, outside wall)

Cooling tower (outside)

CNX Vinyl Factory Layout (concept, not to scale)

Mastering and Cutting Room (low vibration, far from presses and compressor)

lacquer

Decon Airlock

Galvanics Clean Room: Silvering, Pre-plate, Electroforming Cells, Electro-clean (positive pressure)

Water Treatment and Metal Recovery (zero discharge)

Boiler / Steam Room (outside wall, DIW regs)

Compressor Room (far from cutting room)

Chiller Room (closed loop cooling)

Electrical Switchroom and Deye Inverters

Server / IT (clean agent)

Master and Stamper Archive (fire rated, clean agent)

Chemical Storage (locked)

nickel shells

Stamper Prep: Punch, Back-finish, Coining

stampers

QC and Listening Room (test pressing approval)

Semi-Auto Press Area: Newbilt Duplex, 2x HRP 12 press, VEX 50 extruder (splatter, color, small runs)

Automated Press Area: Pheenix AD12 row (volume production, 1 operator per 4 presses)

PVC

PVC Material Storage, Grinder and Recycling (80/20 feed mix)

Finished Goods Warehouse

ship

Loading Dock

Offices

Trimming and Label Dry Oven

records

Hydraulic Aggregate Room (outside pressing room)

scrap regrind

Packaging: Cartons and Sleeves (local partners)

Dropshipping Fulfillment Corner

Entrance, Reception and Visitor Control (access control, PPE issue)

Legend

- Production
- Galvanics and Chemistry
- Utilities
- Storage and Logistics
- Offices and Support
- Safety critical (thick border)