

# Xian Site Sustainability Roadmap

Water

Waste

2021

2022

2023

2024

2025

Reclaimed water for cooling tower  
Use reclaimed water replace tap water in mud pressing process

Cleaning process improvement:

- Clean hold time to reduce repeat clean for container
- Optimize the cleaning process for 2000L Bin used
- WA004(OSD bin washer) reduce detergent concentration at OSD area
- CSP100 L concentration
- BSP 300L improvement
- BSP 20L improvement

Water usage VS 2020: -22%

Hazardous waste reduction project

Investigate the opportunity to reduce the total waste

Waste VS 2020: -31%

Total 5.7% Renewable Electricity

Production area lighting control optimization

Mezzanine floor lighting control optimization

2# Chemical Free Steam Condensate heat recovery

HEM system

7# Chemical Free Steam Condensate heat recovery

HVAC production Based Ventilation (Phase 1&2&3)

Utility Cost Saving through Optimize the basic tariff(Fixed cost → Variable)

PW system drainage water recovery

Automatic drainage Optimization of PW system (frequency & time)

Optimization of PW distribution system with point control logic

- Optimize the detergent Booster
- Sludge dehydrator System for WWT
- Develop the Electronic waste system
- Reuse of the pallets used for imported material
- Reduce the paper cup/paper batch record

Total 18.8% Renewable Electricity

QC storage room AHU improvement (07-1204 and 07-1301)

7# Chemical Free Steam Condensate heat recovery

HVAC production Based Ventilation (Phase 1&2&3)

Utility Cost Saving through Optimize the basic tariff(Fixed cost → Variable)



Continue to implement advanced Alice for water stewardship (Internal and external)



Certify TRUE Zero Waste

Certify TUV Zero Waste to landfill

Develop the new waste disposal facility  
Waste reduce/recycle/reuse projects

Waste VS 2020: -49%

Total 91% Renewable Electricity

Solar street lamps  
5# Chemical Free Steam Condensate heat recovery

Photovoltaic Power Station Project (Phase 2)

HVAC Sleep model (Production Area 9 HVAC )

GSHP(Ground Source Heat Pump)

Photovoltaic Power Station Project (Phase 1)

Direct electricity trading project

HVAC sleep model (Phase 1&2)



National Green plant

Three-dimensional heat coil

Smart chiller

Dust system service on demand

HVAC Sleep model (Warehouse 3 HVAC )

HVAC Sleep model (lab Area 3 HVAC )

i- Suggest

Xi'an site Sustainability & Energy mgt Committee Team



Certify Carbon Neutral Protocol

i-REC Purchase

Green Energy Purchase  
Energy storage

Total 100% Renewable Electricity

i-REC Purchase

Green Energy Purchase  
Energy storage

Optimization of air change times of air conditioning

Smart chiller

IOT metering and CIM pilot

Dust system service on demand

HVAC Sleep model (Warehouse 3 HVAC )

HVAC Sleep model (lab Area 3 HVAC )

CO2 VS 2020: -55%

CO2 VS 2020: -19%

CO2 VS 2020: -11%

Sustainability Light house factory

JJPS CIP 6 sigma

Stakeholder engagement activities

Energy data Power BI dashboard

Environmental Month

Low-carbon Janssen Periodical

Energy & Climate

Cultural & Behavior

Engineering & Property Services

