NXP廢水再利用分享

Tony

23, NOV 2023



SECURE CONNECTIONS FOR A SMARTER WORLD



CONFIDENTIAL / PROPRIETARY

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Agenda

- NXP goal
- Water recycle project sharing
- Q&A



NXP SUSTAINABILITY GOALS

Goal/Actions

2022:

Roadmap to 2035 >29% Renewable energy - Limit CO2e <=1250KT

All Factories By End of Q3

Carbon neutral plan and water recycling plans, including:

-- budget; duration; resources and confidence level

By End of Q4 (AIP Goal)

- Agreed, consolidated & validated NXP roadmap for carbon emission reduction and water recycle target

Intermediate

2027:

- 35% reduction in carbon footprint v. 2021 baseline

- 50% Renewable energy

- 60% Water reclaimed

2035:

- Fully Carbon Neutral

- 75% Water reclaimed

Note: Carbon Neutral does allow

carbon offset.

Taiwan's Pathway to Net-Zero Emissions in

2050

Water

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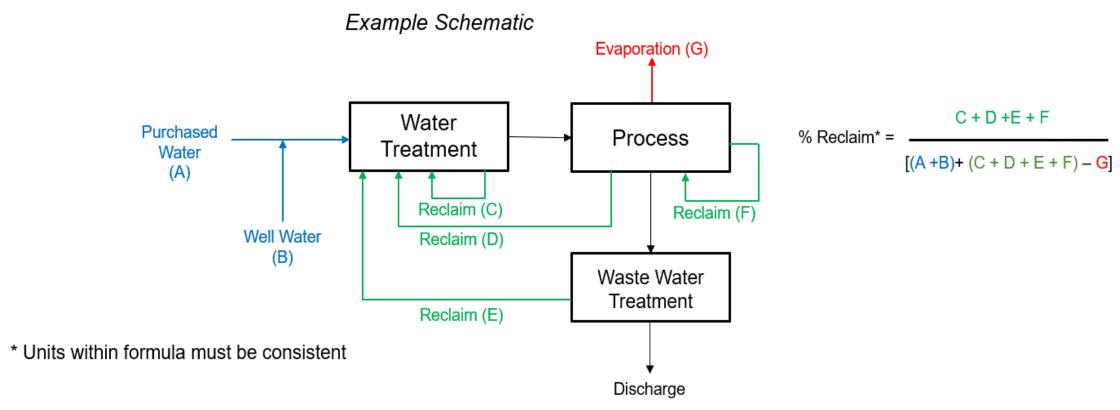
Neutral

Carbon

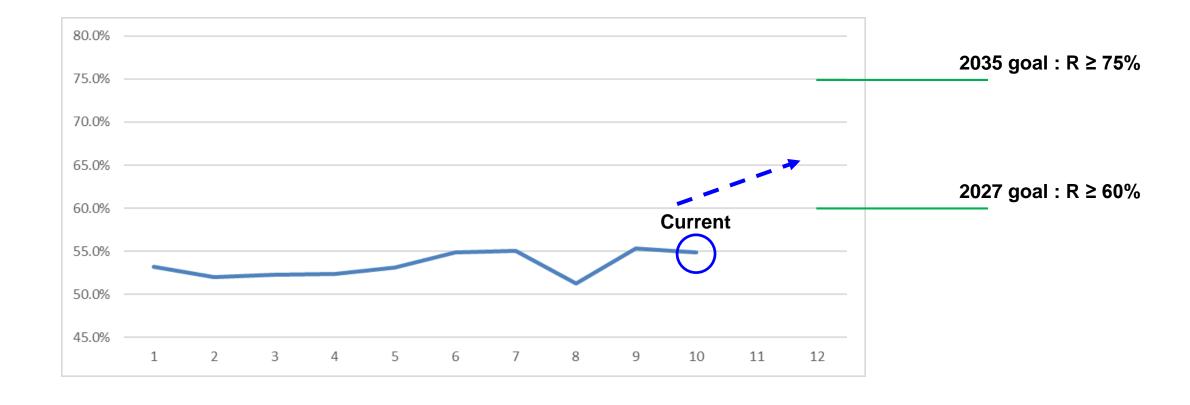
Sum of all reclaim or recycle streams

% Reclaim* =

[Sum of all purchased or well water + Sum of all reclaim or recycle streams - evaporation]



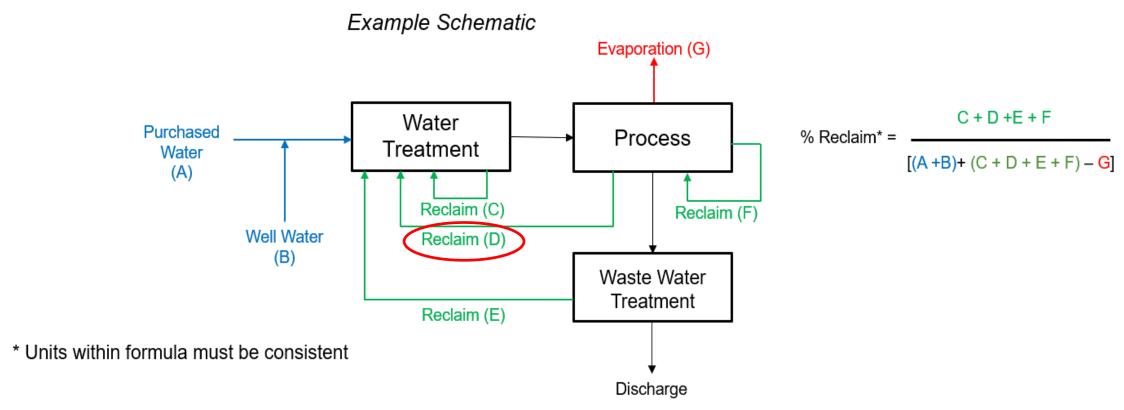
ATKH WATER RECYCLE RATE (~2023/11)



Sum of all reclaim or recycle streams

% Reclaim* =

[Sum of all purchased or well water + Sum of all reclaim or recycle streams - evaporation]



RECLAIMED (D)

- Saw wastewater → separation
 - Technology test
 - DAF-UF



- Technology test

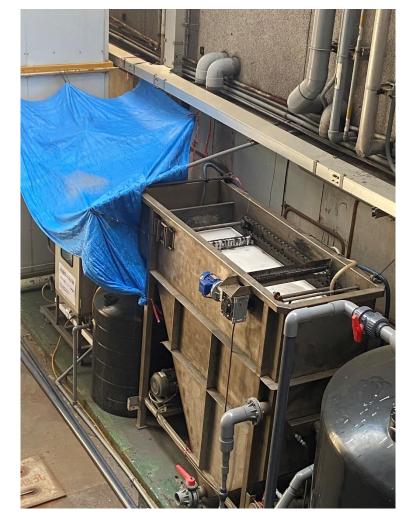
- DAF

- UF-RO



Grind wastewater test (UF-RO)

UF product: 43.58 μS/cm

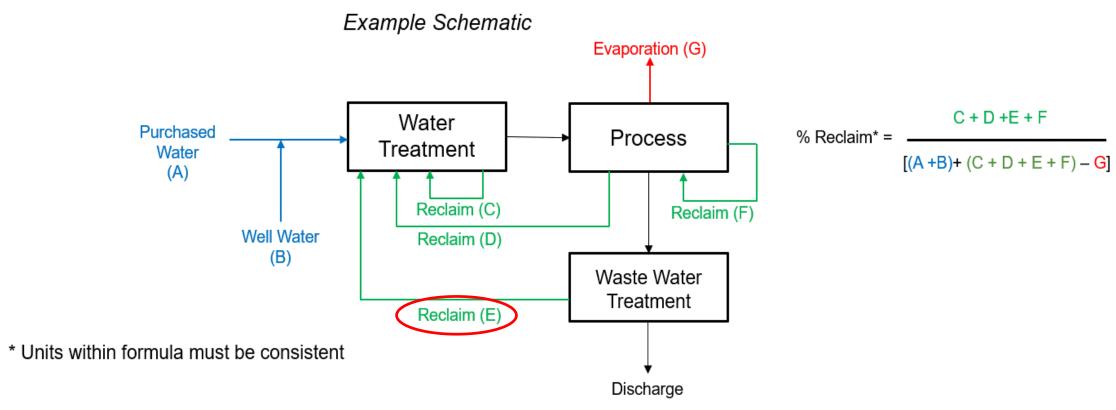


Saw wastewater test (DAF-UF)

Sum of all reclaim or recycle streams

% Reclaim* =

[Sum of all purchased or well water + Sum of all reclaim or recycle streams - evaporation]



RECLAIMED (E)

- Wastewater → saw, grind, plating, facility system...
 - New technology test
 - UF-RO
 - MVR
 - EDR



UF-RO



MVR, mechanical vapor recompression 機械蒸氣再壓縮 (產基會介紹)



RECLAIMED (E)

- Wastewater → saw, grind, plating, facility system...
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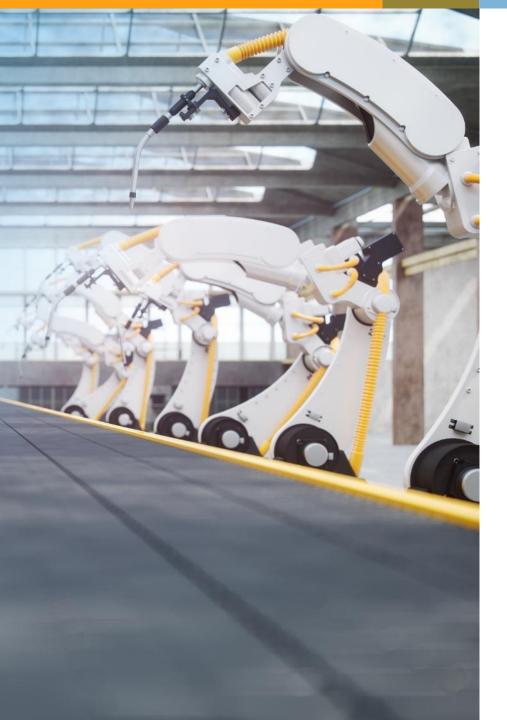


UF-RO



MVR, mechanical vapor recompression 機械蒸氣再壓縮 (產基會介紹)





Q&A



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