Output model predictive controller

Operating point optimiser

State-space model

Moving horizon estimator

Model predictive controller

Control actions

Water resource recovery facility (WRRF)

Water + Resources
(N, P, metals, ...)

Natural ecosystems

Source: freepik.com

Energy
(biogas)

Raw materials

Wastewater

Measurements

Resource demands

Urban, industrial and agricultural ecosystems

Source: freepik.com