

NEWRI INNOVATION

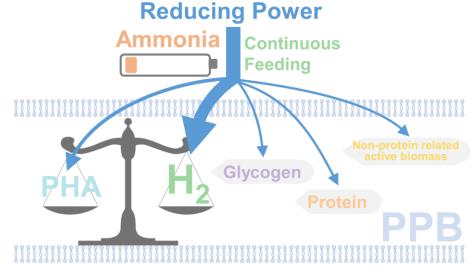
FROM BIOHYDROGEN PRODUCTION **WASTEWATER** SUSTAINABLE **USING PURPLE PHOTOTROPHIC BACTERIA (PPB)**

Transforming waste materials into clean energy

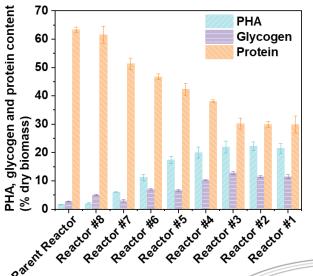
- Low-cost hydrogen production has the potential to replace fossil fuels.
- High hydrogen yield and substrate conversion efficiency (approximately 50%) are achieved.
- Sustainable and stable hydrogen production is maintained through continuous-feeding mode (tested for 80 days).

 Revealing the competing mechanisms of reducing power distribution among H2, PHA, glycogen, protein and non-protein related active biomass in PPB aims

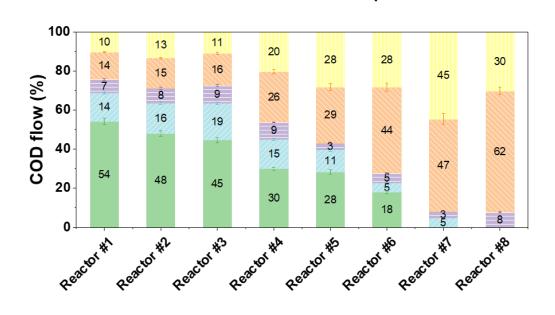
to enhance hydrogen productivity.

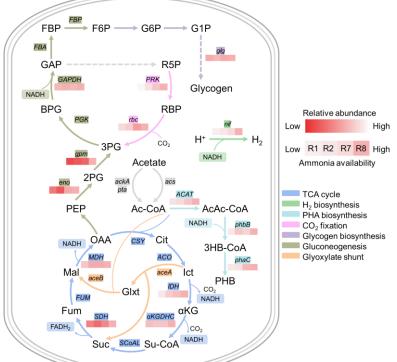














Biotechnology and Bioprocesses Nanyang Environment and Water Research Institute

