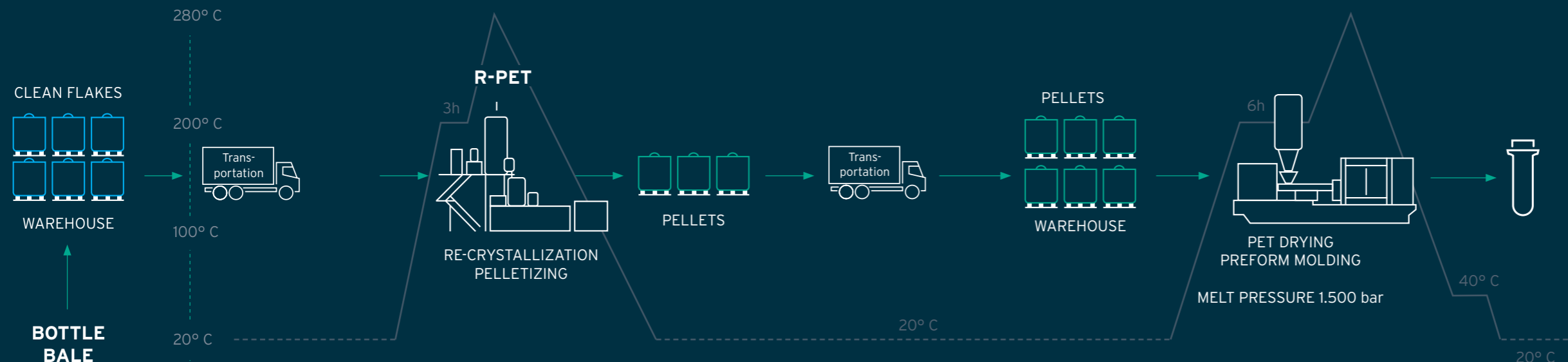


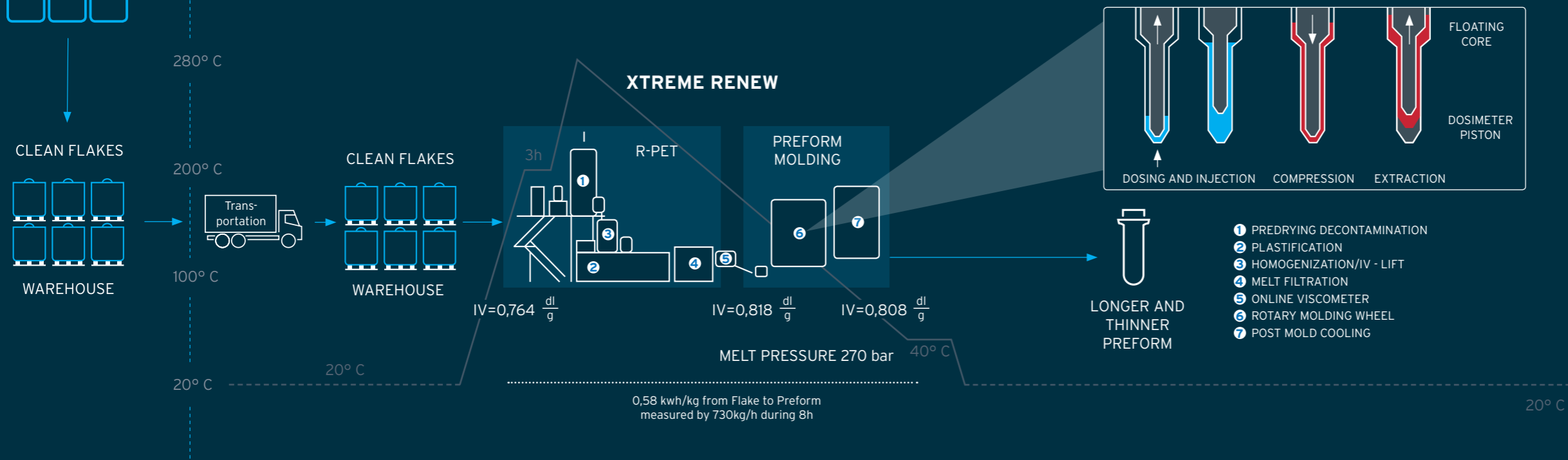
# In-Line Preform System

XTREME Renew Versus Traditional Preform Production

## TRADITIONAL



## XTREME RENEW



## Life Cycle Assessment (LCA): Different scenarios

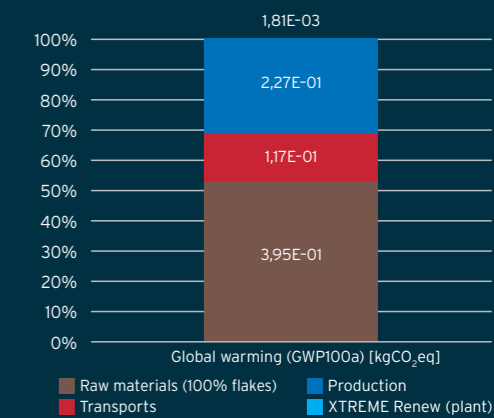


Fig 1: Life Cycle phases: raw materials purchase, raw materials transports, bottle production, plant construction

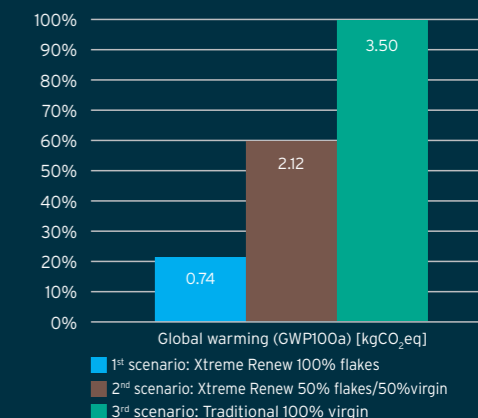


Fig 2: Comparison: Traditional preform injection system with XTREME Renew and different material variations

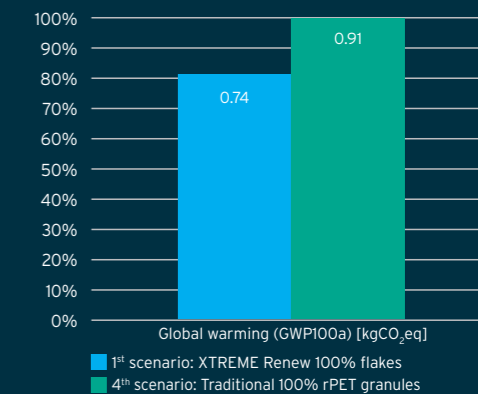


Fig 3: Traditional preform injection system, 100% rPET granules