

## Errata sheet

# Thermodynamic Cycles using Carbon Dioxide as Working Fluid

CO<sub>2</sub> transcritical power cycle study

Yang Chen

Page 24 footnote  $Effectiveness(\varepsilon) = \frac{T_{c,o} - T_{c,i}}{T_{h,i} - T_{c,i}}$  should read:

$$Effectiveness(\varepsilon) = \frac{T_{h,i} - T_{h,o}}{T_{h,i} - T_{c,i}}$$

Page 45, text: "..., the proposed system can work from March to September and reaches...."

Should read:

"..., the proposed system can ~~work from March to September and reaches~~ reach...."

Page 121, text: "..., about 20% of energy in the exhaust gas can be converted into useful work." Should read:

"..., about 13% of energy in the exhaust gas can be converted into useful work. "

In attached paper 1

Page 1, text: "..., about 20% of energy in the exhaust gas can be converted into useful work.... and the efficiency is about 19%." Should read:

"..., about 13% of energy in the exhaust gas can be converted into useful work. ... and the cycle can achieve about 19% efficiency with 350 °C expansion inlet temperature. "

Page 6 (2046), text: "...and the temperature is 25 °C accordingly (see Fig. 5)." Should read:

"... and the temperature is 22 °C accordingly (see Fig. 5)."

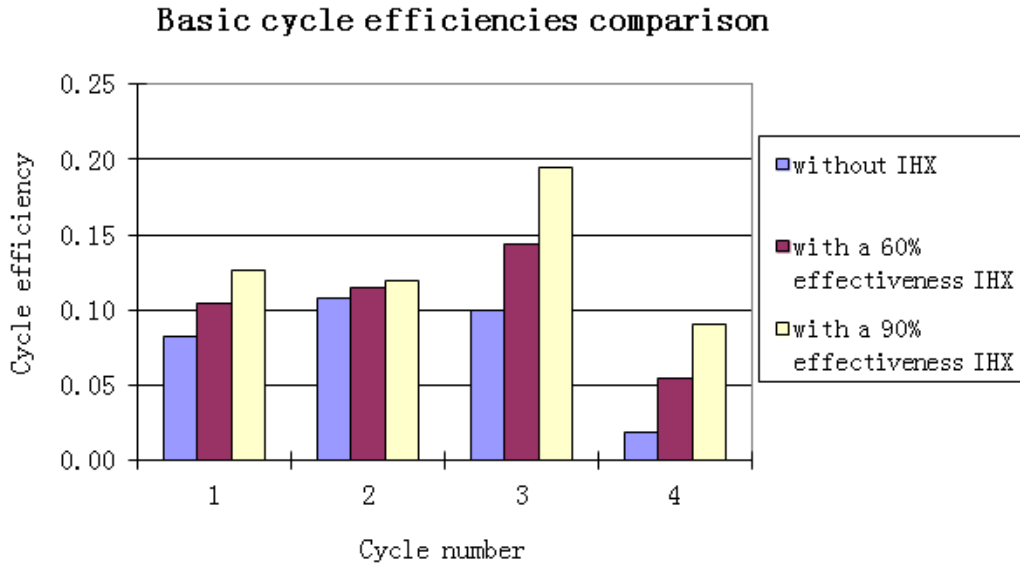
Page 6 (2046), text: "... The efficiency is 0.19 and 0.31 after assuming 60% and 90% effectiveness ..." Should read:

"... The efficiency is 0.10 and 0.13 after assuming 60% and 90% effectiveness ..."

**Page 9 (2049), text:** "... is becomes 0.05 and 0.14 with 60% effectiveness and 90% effectiveness...." **Should read:**

"... is becomes 0.05 and 0.09 with 60% effectiveness and 90% effectiveness...."

**Page 12 (2051), figure 12.**



**Page 13 (2052), text:**"Among all the cycles, cycle1 has the highest e fficiency. Again, this demonstrates theoretically that cycle1 is more attractive than the others."

**The entire line is removed**