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Thermo-economic comparison of air-cooled and cooling tower based Organic Rankine cycle (ORC) with R245fa and R1233zde as candidate working fluids for different geographical climate conditions

Muhammad Usman, Muhammad Imran, Youngmin Yang, Dong Hyun Lee, Byung-Sik Park

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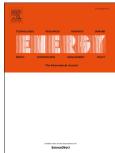
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## ACCEPTED MANUSCRIPT

Thermo-Economic comparison of air-cooled and cooling tower based Organic Rankine cycle (ORC) with R245fa and R1233zde as candidate working fluids for different geographical climate conditions Muhammad Usman<sup>1,2</sup>, Muhammad Imran<sup>2,3</sup>, Youngmin Yang<sup>1</sup>, Dong Hyun Lee<sup>2</sup>, and Byung-Sik Park<sup>1,2</sup>\* <sup>1</sup>Korea University of Science & Technology (UST), 217 Gajeong-ro, Yuseong-gu, 34113, Daejeon, South Korea <sup>2</sup>Korea Institute of Energy Research (KIER), 152 Gajeong-ro, Yuseong-gu, 34129, Daejeon, South Korea <sup>3</sup>Department of Energy Engineering, School of Engineering, University of Management & Technology (UMT), C-II Johar Town, Lahore, Pakistan \*Corresponding author: Byung-Sik Park Email: <u>bspark@kier.re.kr</u> and Phone # +82-42-860-3323 peterbsp@ust.ac.kr 

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