Power density over Time 1.00 -Fab (nm) O null 0 0.95 -**O** 4 0 **O** 5 **O** 6 0 0 0.90 07 0 8 🔘 0.85 --0 **O** 12 0 0 0 **1**4 0 கு 0 **O** 16 0.80 -A **28** 0 0 **O** 40 0 0.75 -O 55 0 800 0 **O** 65 0 0 0 0 0.70 -08 0 0 0 0 0 **O** 90 0.65 Vendor A OA 0 0 0 0 0 O AMD \triangle A 00 0 Intel 0.60 0 0 0 0 **△** NVIDIA 0 0 A A O 0 0.55 Watts/mm2 0 **A** 00 0 O_<u>A</u>_A 0 0 0800 0 0 ΔΔ 0 00 00 0.45 00 0 0.40 00 0 0 Δ 0.35 0 0 2 0 0 0 0 0 0 0 A 0.30 000 o A 0 \triangle 0 0 A 0 0.25 -0 0 Δ 0 Δ 0 🗖 0 Δ 0.20 Δ B 0.15 -A 0.10 Δ 0.05 -0.00 2007 2008 2009 2010 2011 2012 2013 2014 2016 2017 2018 2019 2020 2021 2022 2023 2024 2006 2015 Launch