

NOTE FROM THE EXECUTIVE DIRECTOR

Though COP28 may not be yielding necessary global action on curbing anthropogenic climate change, the science is clear: 2023 marks yet another hottest year on record. But despite the discouraging news, the past decade has seen a 40x growth in investment in the cleantech sector. Today, investment in cleantech opportunities accounts for more than \$0.11 of every dollar invested through venture capital and private equity markets, globally. Ongoing macro challenges include elevated interest rates and a 50% year-over-year retreat of all venture and private equity investments.

The investment landscape is not the only one changing, as we are also seeing the wide-reaching impact of geopolitics on energy markets, supply chains, security, and trade. Within the US, aggressive federal investments in new cleantech technologies and projects have created a renewed era of public-private partnerships through tech hubs, hydrogen, and DAC hubs, and Earthshots. Collectively, these efforts have resulted in attracting top talent to the cleantech space from big tech, fintech, aerospace, and media.

At Joules, we firmly believe in the clean energy transition and the role that new technologies must play in lighting the path forward for decarbonization and sustainability for the Carolinas.

Statistics Source: The Climate Tech Opportunity (Oxford Climate Tech Initiative) www.joulesaccelerator.com

ABOUT JOULES ACCELERATOR

Joules Accelerator is a 501(c)(3) nonprofit startup accelerator collaborating with industry, municipal, and university partners to identify, advise, connect, and deploy clean technology startups within the Carolinas. Joules will become the primary hub for Southeast climate tech entrepreneurship, and drive decarbonization through partnerships and commercialized pilot projects.



Work with sponsors to identify tech sectors.

Open application process and conduct interviews.

Share top 25 applications with partners.

Announce cohort and startup pitch event.

Identify network advisors for each startup.

Graduate startups and share success stories.

OUR SUCCESS TO DATE

\$850MM

raised in early-stage venture funding.

2300

new jobs created.

15

cohort startup exits to date (\$67M average). 12

cohorts with over 90 graduates.

250

high-paying, techfocused, local jobs.

500+

advisors to support market traction.

55%

underrepresented founders, last four cohorts.

15%

of all portfolio companies are local.

1

startup achieving a \$1B valuation (7 \$100M+ valuations).

COHORTS ELEVEN & TWELVE

Joules Accelerator selects two cohorts of six to seven startups each per year. Joules is currently getting ready to announce its 13th cohort, which will be the first cohort of 2024.

of the last two cohorts were between Seed and Series A funding levels.

70

jobs created over the last year.

\$20M

in funding raised over the last year.



ELECTRIC ERA



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GRANULAR

Cache

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Gridware. Ci

Kanin® Energy

CIVIL C-GRID









THE COHORT

ELECTRIC CHARGING

Cohort 11's itselectric is an ev charging venture that "partners with city property owners to unlock access to untapped electricity supply while they earn passive income." Winner of Fast Company's 2023 Next Big Things in Tech for Sustainability, itselectric recently announced partnerships with local and national organizations to help accelerate electrification in the city of Detroit, Michigan.

"GHG emissions from the transport sector have more than doubled since 1970, with 80% of this rise stemming from road vehicles."

The Climate Tech Opportunity



WASTEHEATTOPOWER

Cohort 11's Kanin Energy is a waste heat to power venture that helps companies decarbonize at no cost by capturing a company's waste heat and turning it into a revenue stream. Founder Janice Tran was recently featured in 2023 Forbes' 40 under 40, and believes in their technology's capacity to execute on "high-value energy generation and emissions reduction projects "too small" for large industrials and utilities to manage internally."

Kanin ® Ener

The global market for Organic Rankine Cycle technology (used by Kanin Energy) saw an estimated \$298.8M market in 2022 with a projected growth to \$1.3B by 2030. The waste heat recovery segment is "estimated to grow at an 18% CAGR for the next 8 years."

PR Newswire



THE SUCCESS STORIES

The Bipartisan Infrastructure Law has pushed \$7.5B into supporting the expansion of EV charging, with the presidential administration caling for "a national network of 500,000 chargers along highways."

GeekWire



FAST CHARGING

Cohort 12's Electric Era developed "PowerNode," a revenue-generating EV charging station that allows convenience stores to provide "premium EV fast charging without costly grid upgrades and high utility bills." In 2023 the team announced \$11.5M in new funding, a Series A round led by HSBC Asset Management.

DROP-IN SOLUTIONS

Cohort 12's Cache Energy is coming out of 2023 with momentum, recently raising an oversubscribed \$4.5M seed round, winning the Department of Energy's Energy Innovation Prize, and close to making their first pilot project live. Cache is ultra longduration energy storage, a solid fuel that is "non-toxic, non-explosive, and stores energy at room temperature." This solution be transported anywhere, installed anywhere, and complemenets existing energy workforce and infrastructure.

At COP28, John Kerry, President Biden's special envoy for climate change said that "the US supported a phaseout of fossil fuels, his clearest statement yet on America's position on one of the most intractable issues under debate at the UN climate talks."

The New York Times

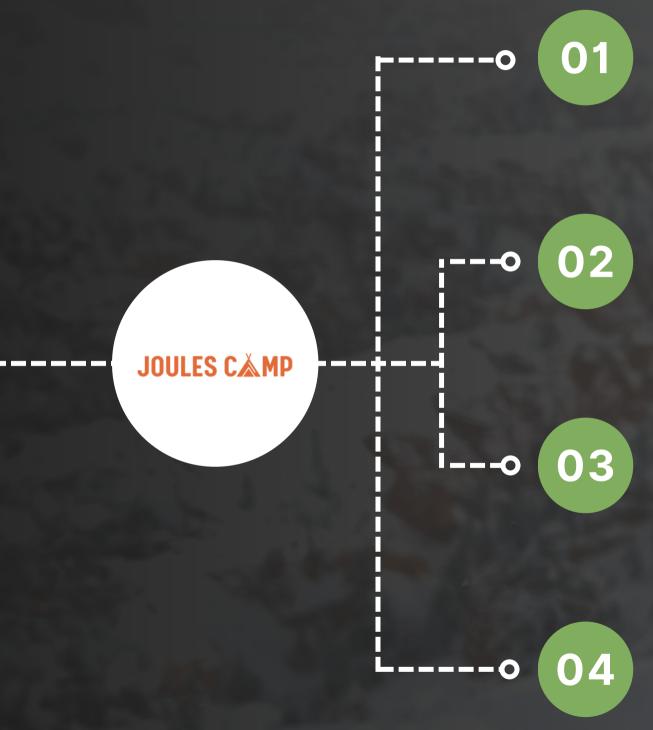


OUR GLOBAL COMMUNITY

Across seven countries and over twenty different tech sectors, Joules sources innovation from around the world that would benefit from the Southeastern regional entrepreneurship ecosystem.



OUR LOCAL IMPACT



Climate Innovation

Identify Joules startup innovation from existing portfolio.

Community Engagement

Select communities that will benefit from cleantech innovation.

Corporate Sponsorships

Fund pilot projects and receive marketing engagement.

Pilot Project

Deploy startup tech and share success stories.

JOULES C&MP

Joules Camp is a project based community outreach program designed to energize North Carolinians about climate tech innovation, while promoting public-private partnerships in pursuit of sustainability goals.

Ribbit Network

Ribbit Network is a global network of open-source, low-cost, CO2 detection sensors. The first Joules Camp project will bring sensors and climate data analysis training to rural high school students in the Carolinas.

OUR 2024 VISION

As we move into the new year, we continue to push for Southeast climate tech entrepreneurship and decarbonization through partnerships and commercialized pilot projects.



DIVERSITY, EQUITY & INCLUSION

Joules continues to explore more avenues for supporting underrepresented founders & advancing equity in the climate tech space. Ribbit Network pilot project will be the second success out of Joules Camp.



COHORTS 13 & 14

Cohort 13 will focus on
Transmission,
Distribution, Grid Edge
Hardware, Industrial Heat
Solutions, Industrial
Decarbonization.



ECOSYSTEM ENGAGEMENT

Joules will be hosting pitch events in Charlotte, NC for both Cohorts 13 & 14, as well as presenting Cohort 13 startups at the annual EPRI Electrification event in March.

EMONADE

THE VISION

OURNETWORK

Joules has carefully curated a network of partners & sponsors who support our mission and vision. We work together to find business development opportunities for portfolio startups.





















nationalgrid partners









































































THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL













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