

**CALIFORNIA ALTERNATIVE ENERGY AND  
ADVANCED TRANSPORTATION FINANCING AUTHORITY**

Board Meeting Date: Tuesday, December 9, 2025

***Request to Approve an Extension of the  
15% Purchase Requirement Timeframe and Initial Term of the Regulatory  
Agreement<sup>1</sup>***

**Nanoshift LLC  
Application No. 23-SM038**

Prepared By: *Willy Chen, Program Analyst*

**SUMMARY**

**Applicant:** Nanoshift LLC

**Location:** Richmond, Contra Costa County

**Industry:** Semiconductor Manufacturing

**Project:** New Semiconductor Manufacturing Facility (Advanced Manufacturing)

**Total Amount of Qualified Property Approved:** \$5,300,000

**Estimated Sales and Use Tax Exclusion Amount at Approval:<sup>2</sup>** \$443,080

**Total Amount of Qualified Property Purchased to Date:** \$94,557 (2%)

**Initial Board Approval Date:** July 18, 2023

**Amount of Time Requested:**

- Requesting a two-year extension, until January 18, 2028, for the 15% purchase requirement timeframe (four years and six months from the date of initial CAEATFA Board approval).
- Requesting a two-year extension, until July 18, 2030, for the initial term of the Regulatory Agreement (seven years from the date of initial CAEATFA Board approval).

**Staff Recommendation:** No Recommendation

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<sup>1</sup> All capitalized terms not defined in this document are defined in the Sales and Use Tax Exclusion Program's statutes and regulations.

<sup>2</sup> This amount is calculated based on the average statewide sales tax rate at the time of initial approval, which was 8.36%.

## **BACKGROUND**

On July 18, 2023, the CAEATFA Board approved a sales and use tax exclusion (“STE”) for Nanoshift LLC (the “Applicant”) for the purchase of up to \$5,300,000 in Qualified Property to build a new specialized advanced semiconductor and packaging manufacturing facility (the “Project”).

The Regulatory Agreement (“Agreement”) provided the Applicant with 18 months from the date of CAEATFA Board approval to purchase or execute purchase orders for at least 15% of the total Qualified Property amount approved. Also, the Agreement initial term provided the Applicant with three years from the date of CAEATFA Board approval to utilize its STE award.<sup>3</sup>

At the time the Applicant was approved its STE award, the CAEATFA Board also granted it a one-year extension of the 15% purchase requirement deadline, extending it from January 18, 2025 to January 18, 2026, and a two-year extension of the Agreement initial term, extending it from July 18, 2026 to July 18, 2028.

As of October 2025, Nanoshift LLC has used the STE to purchase approximately \$95,000 of Qualified Property. The Applicant is now requesting to extend the 15% purchase requirement timeframe and the initial term by two years, until January 18, 2028 and July 18, 2030, respectively, to accommodate delays in securing key state and federal funding.

## **THE APPLICANT**

Nanoshift LLC is a California corporation that formed in 2005. The Applicant’s operation in Richmond specializes in the development of emerging microchips and devices used in semiconductors and electronics. The Applicant has been successful in taking technology concepts proposed by customers and turning them into real, tangible working prototypes, and its customers have included many Fortune 500 and Silicon Valley tech-based companies.

The major shareholders (10.0% or greater) of the Applicant are:

- Salah Uddin (50%)
- Ning Chen (50%)

The corporate officers of the Applicant are:

- Salah Uddin, Partner & Co-Founder
- Ning Chen, Partner & Co-Founder

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<sup>3</sup> California Code of Regulations Title 4, Division 13, Section 10035(b)(1)

## **THE PROJECT**

The Applicant received an STE award to build a new specialized advanced semiconductor and packaging manufacturing facility. The Applicant is currently located in Richmond and intends on moving to a new manufacturing facility to accommodate company growth and expansion. According to the Applicant, its goal is to continue doing business in or near Richmond; however, site selection is still in process. The Applicant primarily develops manufacturing processes for silicon-based chips but heavily focuses on R&D to keep up with emerging technologies. The Applicant represents that it plans to make upgrades to its production processes and R&D and prototyping equipment, and to build a larger manufacturing facility to increase production volumes. The planned expansion also includes the addition of new specialized tooling and clean room facilities.

According to the Applicant, its manufacturing processes require the use of high-precision tools and methodologies and a talented high-performance workforce. The Applicant explains that advancements have been made to its wafer-level manufacturing and packaging scalability, which will allow the Applicant to produce higher outputs of chips and sensors using less materials, labor and energy. The Applicant states that using advanced engineered materials such as dielectrics, metals, metal-oxides, composites, and polymers is critical to producing quality products. Additionally, the Applicant states the services it provides—advanced prototyping and niche-volume prototyping—will drive increases in manufacturing efficiency and sustainability.

## **15% PURCHASE REQUIREMENT TIMEFRAME EXTENSION REQUEST**

The Applicant has requested that the 15% purchase requirement timeframe be extended from January 18, 2026 to January 18, 2028 in order to accommodate delays in securing key state and federal funding.

The Board can extend the 15% purchase requirement timeframe upon a finding of extraordinary circumstances and that an extension is in the public interest and advances the purposes of the STE Program.<sup>4</sup>

## **AGREEMENT INITIAL TERM EXTENSION REQUEST**

The Applicant has requested that the initial term of the Agreement be extended from July 18, 2028, to July 18, 2030 in order to accommodate delays in securing key state and federal funding.

The CAEATFA Board can extend the initial term of the Agreement upon a finding that an extension is in the public interest and advances the purposes of the STE Program.<sup>5</sup>

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<sup>4</sup> California Code of Regulations Title 4, Division 13, Section 10035(b)(1)(A)

<sup>5</sup> California Code of Regulations Title 4, Division 13, Section 10035(b)(1)(B)

### **STAFF EVALUATION**

The Applicant is requesting a second extension citing delays in securing key state and federal funding (California Competes and CHIPS Act), broader economic challenges, and the need for additional time to demonstrate business progress and align with future funding opportunities. These delays have impacted the Applicant's ability to proceed with large-scale facility selection and equipment procurement. In the interim, the Applicant has secured a temporary transition site and has begun incremental purchases of Qualified Property.

The Applicant has provided a revised purchasing roadmap, indicating a commitment between \$75,000 and \$150,000 in purchases in 2026, with the remaining 15% of the purchase requirement to be fulfilled throughout in 2027 and into January 2028. The Applicant has also indicated that the scope of the Project remains unchanged and has outlined a phased execution model supported by anticipated equipment financing and improved business outlook.

Staff has considered the following factors in its evaluation:

- The reasons for the delay—primarily related to external funding and market conditions—appear to be largely outside the Applicant's control.
- While some progress has been made, key obstacles such as financing and long-term site selection have not yet been fully resolved.
- The Applicant has presented a logical phased plan for moving forward, but the project remains in early development.
- No secured capital or committed investors have been identified to date, and the Applicant's financial position remains uncertain.

Based on this information, Staff is not providing a recommendation at this time.

### **LEGAL QUESTIONNAIRE**

Staff reviewed the Applicant's Legal Status portion of the extension request. No information was disclosed concerning the financial viability or legal integrity of the Applicant.

### **CAEATFA FEES**

In accordance with STE Program regulations,<sup>6</sup> the Applicant's request to extend the 15% purchase requirement timeframe and initial term qualifies as modification to the Applicant's Agreement, incurring additional fees. The Applicant has paid the additional fee of \$2,250.

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<sup>6</sup> California Code of Regulations Title 4, Division 13, Section 10036(c)(1)(A)

**RECOMMENDATION**

***15% PURCHASE REQUIREMENT TIMEFRAME EXTENSION REQUEST:***

Staff have no recommendation.

Staff is requesting the CAEATFA Board to determine whether to approve or deny the Applicant's request for extending the 15% purchase requirement timeframe. In the event the Board approves the extension, it may either grant the extension as requested by the Applicant or establish an alternative resolution at its discretion.

If approved as requested by the Applicant without modification, then the Board shall be extending the Applicant's the 15% purchase requirement timeframe by two years, until January 18, 2028, as the Applicant has demonstrated extraordinary circumstances, and it is in the public interest and advances the purposes of the STE Program.

***AGREEMENT INITIAL TERM EXTENSION REQUEST:***

Staff have no recommendation.

Staff is requesting the CAEATFA Board to determine whether to approve or deny the Applicant's request for extending the initial term of the Agreement. In the event the Board approves the extension, it may either grant the extension as requested by the Applicant or establish an alternative resolution at its discretion.

If approved as requested by the Applicant without modification, then the Board shall be extending the Applicant's initial term of the Agreement by two years, until July 18, 2030, as it is in the public interest and advances the purposes of the STE Program, and the full term shall be for a period of seven years, until July 18, 2030, for providing annual compliance reports.<sup>7</sup>

If the Board denies the Applicant's extension requests, the Agreement will terminate in accordance with its current terms and conditions, without further action required by the Board.

**ATTACHMENTS**

Attachment A: Nanoshift LLC's Letter Requesting Waiver (October 22, 2025)

Attachment B: Nanoshift LLC's Staff Summary at the Time of Approval

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<sup>7</sup> California Code of Regulations Title 4, Division 13, Section 10035(a)(2)

**RESOLUTION APPROVING AN EXTENSION OF  
NANOSHIFT LLC'S 15% PURCHASE REQUIREMENT TIMEFRAME  
AND THE INITIAL TERM UNDER THE REGULATORY AGREEMENT**

**December 9, 2025**

WHEREAS, on July 18, 2023, the California Alternative Energy and Advanced Transportation Financing Authority (the “Authority”), a public instrumentality of the State of California, approved a Sales Tax Exclusion (“STE”) in the amount of \$5,300,000 of Qualified Property for **Nanoshift LLC** (the “Applicant”); and

WHEREAS, within 18 months of approval by the Authority, the Applicant must purchase or execute purchase orders for at least 15% of the total amount of Qualified Property listed in the approval resolution (STE Program regulations Section 10035(b)(1)); and

WHEREAS, upon a finding of extraordinary circumstances and that it is in the public interest and advances the purposes of the Program, the Authority may waive the requirement that the Applicant must purchase or execute purchase orders for at least 15% of the total amount of Qualified Property within 18 months of Application approval (STE Program regulations Section 10035(b)(1)(A)); and

WHEREAS, the Applicant previously had requested a waiver of the requirement to purchase or execute purchase orders for at least 15% of the Qualified Property amount within 18 months due to unexpected delays in the Project timeline, extending the term by one (1) year to January 18, 2026; and

WHEREAS, the Applicant has requested a waiver of the requirement to purchase or execute purchase orders for at least 15% of the Qualified Property amount by January 18, 2026 due to unexpected delays in the Project timeline, extending the term by two (2) years to January 18, 2028; and

WHEREAS, the Applicant has demonstrated extraordinary circumstances as to why it cannot meet the 18-month 15% purchase requirement timeframe; and

WHEREAS, upon a finding that it is in the public interest and advances the purposes of the Program, the Authority may waive the requirement that all purchases of Qualified Property be made within three (3) years of Application approval (STE Program regulations Section 10035(b)(1)(B)); and

WHEREAS, the Applicant previously had requested a waiver of the requirement to purchase all of the Qualified Property within three (3) years due to unexpected delays in the Project timeline, extending the term by two (2) years to July 18, 2028; and

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

WHEREAS, the Applicant has requested a waiver of the requirement to purchase all of the Qualified Property by July 18, 2028, due to unexpected delays in the Project timeline, extending the term by two (2) years to July 18, 2030; and

WHEREAS, granting the waivers will allow the Project to proceed and the state to receive the anticipated environmental and economic benefits that justified the initial approval of the Project in accordance with the law, thereby advancing both the public interest and the purposes of the Program.

NOW, THEREFORE, BE IT RESOLVED by the California Alternative Energy and Advanced Transportation Financing Authority, as follows:

Section 1. The Authority finds these are extraordinary circumstances and that it is in the public interest and advances the purposes of the Program to extend the Applicant's deadline to meet the 15% purchase requirement to January 18, 2028

Section 2. The Authority finds that it is in the public interest and advances the purposes of the Program to extend the Applicant's initial term of the Regulatory Agreement to July 18, 2030.

Section 3. This resolution shall take effect immediately upon its passage.

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Attachment A: Nanoshift LLC's Letter Requesting Waiver (October 22, 2025)**



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Nanoshift LLC  
6 Seabreeze Drive  
Richmond, CA 94804  
Phone: 510.473.3630

To: CAEATFA  
915 Capitol Mall, Room 538  
Sacramento, CA 95814  
[caeatfa@treasurer.ca.gov](mailto:caeatfa@treasurer.ca.gov)

October 22, 2025

**RE: Letter in response to CAEATFA inquiry for Nanoshift's Extension letter date 8/29/25**

Dear CAEATFA Panel,

Following CAEATFA's initial review of our extension letter request dated August 29, 2025, Nanoshift provides the following additional responses:

1. **Facility site status**

Nanoshift has occupied a transition site that has enabled select interim equipment acquisition and setup to support our early expansion. We are using this site to acquire initial Qualified Property (QP) while we develop additional business visibility through 2026, to then select a facility better aligned with our expansion, revenue, and program timing.

2. **QP purchased in 2025**

We have completed approximately 11.9% of the 15% threshold (i.e., \$94,557.06 acquired in Q3 2025). For clarity, this equals approximately 1.78% of the total CAEATFA \$5.3M STE award. Reference math: 15% of award = \$795,000; remaining spend to reach 15% = \$700,442.94.

3. **Revised 15% milestone and award term request and purchasing roadmap**

We understand that removing the 15% milestone entirely is unlikely by the CAEATFA Analyst. We therefore revise our request to extend our 15% deadline by 24-months, specifically from January 18, 2026 to January 18, 2028, while also extending our overall STE program term by 24-months so that our execution remains aligned with the milestone. A 24-month runway helps us to offset our previous down-years and broader economic turmoil while keeping us on course to the original program goals.



**4. Updated roadmap to reach 15%**

**2026:** Nanoshift will commit at least \$75,000 by year-end 2026 in QP (smaller tools/ancillaries) at the transition site. There is a reasonable possibility that the 2026 QP spend could increase to \$100,000–\$150,000 if our current project discussions and terms constructively come together; we need to get a little further along in these processes to confirm.

**2027:** Purchase the balance of approximately \$625,442.94 (i.e., \$700,442.94 remaining minus the minimum \$75,000 2026 QP expenditure; and proportionally less if 2026 spend exceeds \$75,000 as may become possible). The balance of purchases will be completed during 2027, before the extended 15% deadline of January 18, 2028.

**5. Basis and measures for the new timeframe and funding**

a. *Nanoshift business trajectory:* We have been steadily increasing new business and seeing patterns of stronger new project starts and longer-term contracts materializing in 2025, and noticed these improvements increased in Q3 2025, and increasing yet still into Q4. We maintain a consistent outlook of increased growth for FY 2026.

b. *Advanced discussions for projects requirement capital expenditure needs:* We are in advanced stage discussions regarding projects that would benefit from additional tooling in order to support awards of longer-term programs/contracts. This enables us operating cash to continue making investments, and the stability to continue down the proposed path.

c. *State and Federal Funding Programs Repositioning:* This requested extension allows us to demonstrate tangible company performance and progress from FY 2025 into 2026, and to bolster for tendering a Q3 2026 California Competes re-application, as well as improving our competitiveness for CHIPS Act and other related in-kind support programs.

d. *Phasing Practicality and Financing:* The current transition site supports incremental QP installs now; the larger-footprint tools will follow as revenue and program signals mature. For our larger acquisitions, we will utilize equipment financing to prudently stage cash requirements and reduce execution risk, and to enable installation of the larger tools into the longer-term site once business under negotiation and the infrastructure program awards are shored up.

**6. Obstacles addressed beyond improved outlook**

a. *Market development:* We executed targeted website and SEO campaigns to position Nanoshift in front of more emerging high-growth technology sectors such as artificial intelligence, advanced semiconductors, supercomputing, and other adjacent industries.

b. *Demand signals:* We are seeing increased R&D and low-volume production spend from these sectors and participant companies, and realizing benefits from the current administration's re-shoring of U.S. based manufacturing.

c. *Supply-chain tailwinds:* U.S. semiconductor supply-chain shifts in our niche and general semiconductor industry capacity constraints for making chips have improved our visibility, business lead generation, and pipeline quality.

d. *Execution model:* A phased approach at the transition site reduces all-at-once risk and supports steady progress toward commissioning.

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**



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7. **Additional assurances**

Nanoshift intends to utilize the STE award within the extended term. Specifically, we intend to (i) purchase at least \$75,000 in Qualified Property by December 31, 2026, and (ii) complete the remaining approximately \$625,442.94 of purchases during 2027 so that the 15% threshold is met by January 18, 2028. If a material schedule change arises that would jeopardize meeting the proposed January 18, 2028 milestone in full, we will notify CAEATFA with our corrective plan.

We do hope for, and appreciate consideration for extension as a small business born and grown in California. We do wish to make good on our vision for expansion into California as a successful advanced semiconductor manufacturing entity.

Sincerely,

Salah Uddin  
Partner/Co-Founder  
Nanoshift LLC

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Attachment B: Nanoshift LLC's Staff Summary at the Time of Approval**

The original award staff summary can be found [on the CAEATFA website](#).

**Agenda Item – 4.A.11  
Resolution No. 23-SM038-01**

**CALIFORNIA ALTERNATIVE ENERGY AND  
ADVANCED TRANSPORTATION FINANCING AUTHORITY**

*Request to Approve Project for a Sales and Use Tax Exclusion<sup>1</sup>*

**Nanoshift LLC  
No. 23-SM038**

**Tuesday, July 18, 2023**

Prepared By: *Katrina Walters-White, Program Analyst*

**SUMMARY**

**Applicant** – Nanoshift LLC

**Location** – Richmond, Contra Costa County

**Industry** – Semiconductor Manufacturing

**Project** – New Semiconductor Manufacturing Facility (Advanced Manufacturing)

<b>Value of Qualified Property</b>	<b>Estimated Sales and Use Tax Exclusion ("STE") Amount<sup>2</sup></b>
\$5,300,000	\$443,080

<b>Estimated Net Benefit<sup>3</sup></b>	<b>Dollar Value</b>	<b>Points Earned</b>
Estimated Fiscal Benefits	\$375,485	847
Estimated Environmental Benefits	N/A	90
Additional Benefits	N/A	105
<b>Total</b>	<b>\$375,485</b>	<b>1,042</b>
<b>Estimated Quantifiable Net Benefit</b>	<b>-\$67,595</b>	

**Competitive Criteria Score – 100**

**Staff Recommendation – Approval**

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<sup>1</sup> All capitalized terms not defined in this document are defined in the STE Program's statutes and regulations.

<sup>2</sup> This amount is calculated based on the average statewide sales tax rate of 8.36%.

<sup>3</sup> Applications that earn a Total Score of at least 1,000 points and an Environmental Benefits Score of over 20 points may be recommended for approval. (California Code of Regulations Title 4, Division 13, Section 10033(c)(6).)

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Agenda Item – 4.A.11  
Resolution No. 23-SM038-01**

**THE APPLICANT**

Nanoshift LLC (the “Applicant”) is a California corporation that formed in 2005. The Applicant’s operation in Richmond specializes in the development of emerging microchips and devices used in semiconductors and electronics. The Applicant has been successful in taking technology concepts proposed by customers and turning them into real, tangible working prototypes, and its customers have included many Fortune 500 and Silicon Valley tech-based companies.

The Applicant received an income tax credit under the California Competes Tax Credit Program<sup>4</sup> administered by the Governor’s Office of Business and Economic Development on April 12, 2018.

The major shareholders (10.0% or greater) of the Applicant are:

Salah Uddin (50%)

Ning Chen (50%)

The corporate officers of the Applicant are:

Salah Uddin, Partner & Co-Founder

Ning Chen, Partner & Co-Founder

**THE PROJECT**

The Applicant is requesting a sales and use tax exclusion (“STE”) award to build a new specialized advanced semiconductor and packaging manufacturing facility (the “Project”). The Applicant is currently located in Richmond and intends on moving to a new manufacturing facility to accommodate company growth and expansion. According to the Applicant, its goal is to continue doing business in or near Richmond; however, site selection is still in process. The Applicant primarily develops manufacturing processes for silicon-based chips but heavily focuses on R&D to keep up with emerging technologies. The Applicant represents that it plans to make upgrades to its production processes and R&D and prototyping equipment, and to build a larger manufacturing facility to increase production volumes. The planned expansion also includes the addition of new specialized tooling and clean room facilities.

According to the Applicant, its manufacturing processes require the use of high-precision tools and methodologies and a talented high-performance workforce. The Applicant explains that advancements have been made to its wafer-level manufacturing and packaging scalability, which will allow the Applicant to produce higher outputs of chips and sensors using less materials, labor and energy. The Applicant states that using advanced engineered materials such as dielectrics, metals, metal-oxides, composites, and polymers is critical to producing quality products. Additionally, the Applicant states the services it provides—advanced prototyping and niche-volume prototyping—will drive increases in manufacturing efficiency and sustainability.

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<sup>4</sup> California Code of Regulations, Title 10, Chapter 13, Article 1 (commencing with Section 8000).

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Agenda Item – 4.A.11  
Resolution No. 23-SM038-01**

**ANTICIPATED COSTS OF QUALIFIED PROPERTY**

The anticipated Qualified Property purchases are listed below:

Contact Mask Aligners	\$ 1,200,000
Resist Coater Track	\$ 275,000
Developer Track	\$ 200,000
Resist Spinners	\$ 70,000
HMDS (Hexamethyldisilane) Oven	\$ 50,000
Barrel Etcher	\$ 75,000
Silicon Etchers	\$ 1,500,000
Optical Microscopes	\$ 40,000
Digital Inspection System	\$ 40,000
Scanning Electron Microscope	\$200,000
Infrared Scope	\$25,000
Profilometer	\$60,000
Photospectrometer	\$ 20,000
Evaporators	\$400,000
Wafer Bonders	\$1,050,000
Computer Equipment	\$ 20,000
Cleanroom Shell and Hepas	\$50,000
Waste Collection Equipment	\$25,000
<b>Total</b>	<b>\$5,300,000</b>

*Note: The Qualified Property purchases reported in the Application and shown here in staff's report are estimated costs. At the termination of the Regulatory Agreement, a finalized Project equipment list will be prepared detailing the value of the Project equipment actually acquired, and the estimated tax benefit realized pursuant to Revenue and Tax Code Section 6010.8. Variance from the costs shown in the Application and in this report may occur prior to the closing due to increased costs of certain components of the Project over original estimates, and other reasons. In addition, those costs may vary after closing due to increased costs, as well as common design and equipment modifications during construction, differences in equipment due to future changes in statute or regulation, or for other reasons.*

**TIMELINE**

The Applicant is currently in the process of selecting a new site on which to expand its manufacturing operations. The Applicant estimates the initial facility build-out and purchasing of equipment to begin between Q4 2023 and Q2 2024 and anticipates potentially starting phase 2 of the Project in the second half of 2026.

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Agenda Item – 4.A.11  
Resolution No. 23-SM038-01**

**STATUS OF PERMITS/OTHER REQUIRED APPROVALS**

Since the Applicant has not yet decided the location of the expansion, the number and types of permits required are not known at this time. Once the Applicant has determined the site location, it will schedule an inspection with the local fire Marshall to approve the chemical and gas setup for installed equipment. According to the Applicant, it has had preliminary discussions with the City of Richmond and the California Governor's Office of Business and Economic Development (Go-Biz), and both entities are amenable to the Applicant's plan.

**COMPETITIVE CRITERIA SCORE**

The Applicant received 100 Competitive Criteria points as follows:

1. **Environmental Benefits (0 of 100 points)**. The Application does not have a Recycled Resource Extraction Project or Project that produces an Advanced Transportation Technology or an Alternative Source product, component, or system. Therefore, no points are awarded.
2. **Unemployment (0 of 50 points)**. The Applicant's Project is located in Contra Costa County, which has an average annual unemployment rate of 3.6%.<sup>5</sup> When compared to the statewide average annual unemployment rate of 4.3%, the Project location earned the Applicant zero points.
3. **Job Creation (35 of 75 points)**. The Applicant anticipates the Project will support a total of 12 production-related jobs at its Facility. CAEATFA estimates that approximately 1.24 of these jobs will be attributable to a marginal increase in jobs created due to the STE. Based on the amount of STE per estimated number of jobs created, the Applicant earned 35 points.
4. **California Headquarters (15 of 15 points)**. The Applicant has a California Corporate Headquarters, and, therefore, 15 points are awarded.
5. **Natural Disaster Relief (0 of 50 points)**. The Project is not to rebuild or relocate the Applicant's Facility due to a fire, flood, storm, or earthquake identified in a state of emergency proclaimed by the Governor within two years of the time of application, and, therefore, zero points are awarded.
6. **Eligibility for Manufacturing and Research and Development Equipment Exemption (50 of 50 points)**. The Applicant is not eligible to use any of the exemptions established pursuant to Section 6377.1 of the Revenue and Taxation Code, and, therefore, 50 points are awarded.

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<sup>5</sup> Unemployment rates are based on data available in October 2022.

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Agenda Item – 4.A.11  
Resolution No. 23-SM038-01**

7. **Emerging Strategic Industry (0 of 75 points).** The Project's industry is not in an Emerging Strategic Industry, and, therefore, zero points are awarded.

**PROJECT EVALUATION**

**PROJECT BENEFITS**

The Project received a Total Score of 1,042 points, which exceeds the required 1,000-point threshold, and a total Environmental Benefits Score of 90 points, which exceeds the 20-point threshold.

- A. **Fiscal Benefits (847 points).** The net present value of the total fiscal benefits over the lifetime of the Qualified Property is derived from the Applicant's sales and use taxes, personal income taxes paid by the firm's employees, firm taxes on profits, property taxes, and other indirect fiscal benefits of the Applicant. The total fiscal benefits amount to \$375,485, resulting in a Fiscal Benefits score of 847.
- B. **Environmental Benefits (90 points).** The Project earned an Environmental Benefits Score of 90. The Applicant received points in the following categories:
  1. **Energy Consumption (30 of 30 points).** The Applicant anticipates the Project will result in a 100% reduction in energy consumption compared to the industry standard manufacturing by implementing new manufacturing technologies that focus on advanced batch level techniques that increase energy efficiency.
  2. **Water Use (30 of 30 points).** The Applicant anticipates the Project will result in a 100% reduction in water use relative to the industry standard manufacturing process by focusing on dry processes and using tools that consume less water.
  3. **Solid Waste (30 of 30 points).** The Applicant anticipates the Project will result in a 50% reduction in solid waste produced relative to the industry standard manufacturing process by using more precise equipment and implementing new manufacturing technologies that focus on advanced batch level techniques.
- C. **Additional Benefits (105 points).** Applicants may earn additional points for their Total Score. The Applicant received 105 additional points.
  1. **Production Jobs (35 of 75 points).** The Applicant anticipates the Project will support a total of 12 production-related jobs at its Facility. CAEATFA estimates that approximately 1.24 of these jobs will be attributable to a marginal increase in jobs created due to the STE. Based on the amount of STE per estimated number of jobs created, the Applicant earned 35 points.

**Agenda Item – 4.B.3  
Resolution No. 23-SM038-02**

**Agenda Item – 4.A.11  
Resolution No. 23-SM038-01**

2. **Construction Jobs (20 of 75 points)**. The Applicant anticipates the Project will support a total of three construction jobs at its Facility. CAEATFA estimates that approximately .31 of these jobs will be attributable to a marginal increase in jobs created due to the STE. Based on the amount of STE per estimated number of jobs created, the Applicant earned 20 points.
3. **Unemployment (0 of 50 points)**. The Applicant's Project is located in Contra Costa County, which has an average annual unemployment rate of 3.6%. When compared to the statewide average annual unemployment rate of 4.3%, the Project location earned the Applicant zero points.
4. **Research and Development Facilities (25 of 25 points)**. The Applicant has verified that it has a facility located in California that performs research and development functions related to the production of semiconductors.
5. **Benefits and Fringe Benefits (25 of 25 points)**. The Applicant states it provides medical, health, dental, and vision benefits, bonuses, transportation subsidies, and paid leave to its employees, earning the Applicant 25 points.

**LEGAL QUESTIONNAIRE**

Staff reviewed the Applicant's responses to the questions contained in the Legal Status portion of the Application. The responses did not disclose any information that raises questions concerning the financial viability or legal integrity of this Applicant.

**FINDINGS OF EXTRAORDINARY CIRCUMSTANCES AND OF PUBLIC INTEREST**

The Applicant states the portion of the Qualified Property being requested for Project expansion in this Application will be funded through company revenue, reinvestments and loans, however, Project location and construction, as well as the success of a broader expansion plan are contingent upon the Applicant receiving federal grant funding through the Creating Helpful Incentives to Produce Semiconductors (CHIPS) and Science Act of 2022 (the “CHIPS Act”), which provides roughly \$280 billion in new funding to boost domestic research and manufacturing of semiconductors in the United States.

According to the Applicant, a critical piece of receiving CHIPS Act support is providing evidence of state support (e.g., an STE award). The Applicant is currently waiting for a proposed IRS rule, the Advanced Manufacturing Investment Tax Credit Section 48D (“Section 48D”), to be finalized. The Applicant states that the current draft language of Section 48D stipulates the acquisition of qualified property (including real property) and its original use by the first taxpayer/business, which will only provide notable tax credits to incentivize newly acquired property and equipment, and will impact the Applicant's method, ability, and speed of expanding facilities and procuring equipment. Essentially, if Section 48D remains as currently drafted, the

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Applicant would be required to construct a brand-new facility as opposed to occupying an existing facility. The Applicant states building a new facility alone could take 18-24 months to complete. Additionally, the increased demand for and scarce supply of semiconductor equipment stemming from the CHIPS Act has led to extremely long lead times in the industry.

Due to the pending submittal of the Applicant's CHIPS Act application, uncertainty of the final language for Section 48D, and long lead times for semiconductor equipment, the Applicant is requesting to extend the 15% purchase requirement timeframe by one year from January 18, 2025 to January 18, 2026, and to extend the initial term of the Regulatory Agreement ("Agreement") by two years, from July 18, 2026 to July 18, 2028.

The CAEATFA Board can extend the 15% purchase requirement timeframe upon a finding of extraordinary circumstances and that an extension is in the public interest and advances the purposes of the STE Program.<sup>6</sup> Furthermore, the CAEATFA Board can extend the initial term of the Agreement upon a finding that an extension is in the public interest and advances the purposes of the STE Program.<sup>7</sup> Extending the 15% purchase requirement and initial term of the Agreement are in the public interest and advance the purposes of the STE Program, as this will allow time for the Applicant to finalize site selection and construction plans post CHIPS Act awardee selection and expand the Project beyond what is indicated in this Application, at which time the Applicant states it will apply for another STE award.

**CAEATFA FEES**

In accordance with STE Program regulations,<sup>8</sup> the Applicant has paid CAEATFA an Application Fee of \$2,650 and will pay CAEATFA an Administrative Fee of up to \$21,200.

**RECOMMENDATION**

Staff recommends the approval of Resolution No. 23-SM038-01 for Nanoshift LLC's purchase of qualifying tangible personal property in an amount not to exceed \$5,300,000 anticipated to result in an approximate STE value of \$443,080.

Staff recommends that the Board approve the Applicant's request to extend the 15% purchase requirement timeframe by one year, until January 18, 2026, as the Applicant has demonstrated extraordinary circumstances and it is in the public interest and advances the purposes of the STE Program.

Staff recommends that the Board approve the Applicant's request to extend the initial term of the Agreement by two years, until July 18, 2028, as it is in the public interest and advances the purposes of the STE Program.

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<sup>6</sup> California Code of Regulations Title 4, Division 13, Section 10035(b)(1)(A)

<sup>7</sup> California Code of Regulations Title 4, Division 13, Section 10035(b)(1)(B)

<sup>8</sup> California Code of Regulations Title 4, Division 13, Section 10036

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**RESOLUTION APPROVING AND AUTHORIZING EXECUTION OF A  
REGULATORY AGREEMENT WITH NANOSHIFT LLC**

**July 18, 2023**

WHEREAS, the California Alternative Energy and Advanced Transportation Financing Authority (the “Authority”) has received the Application of **Nanoshift LLC** (the “Applicant”) for financial assistance under the Sales and Use Tax Exclusion Program, as established in Public Resources Code Section 26011.8; and

WHEREAS, the Applicant qualifies as a Participating Party under Public Resources Code Section 26011.8 and Revenue and Taxation Code Section 6010.8; and

WHEREAS, the Applicant’s qualifying tangible personal property meets the requirements of a Project under Public Resources Code Section 26011.8 and Revenue and Taxation Code Section 6010.8 (the “Project”); and

WHEREAS, after the Authority approves an Application, the Authority enters into a Regulatory Agreement, as described in Authority Regulations Section 10035(a), with the Applicant for the Project; and

WHEREAS, within 18 months of approval by the Authority, the Applicant must purchase or execute purchase orders for at least 15% of the total amount of Qualified Property listed in the approval resolution (STE Program regulations Section 10035(b)(1)); and

WHEREAS, upon a finding of extraordinary circumstances and that it is in the public interest and advances the purposes of the Program, the Authority may waive the requirement that the Applicant must purchase or execute purchase orders for at least 15% of the total amount of Qualified Property within 18 months of Application approval (STE Program regulations Section 10035(b)(1)(A)); and

WHEREAS, the Applicant has requested a waiver of the requirement to purchase or execute purchase orders for at least 15% of the Qualified Property amount within 18 months, extending the term by one (1) year to January 18, 2026; and

WHEREAS, the Applicant has demonstrated extraordinary circumstances as to why it cannot meet the 18-month 15% purchase requirement timeframe; and

WHEREAS, within three (3) years of approval by the Authority, the Applicant must make all Qualified Property purchases (STE Program regulations Section 10035(b)(1)); and

WHEREAS, upon a finding that it is in the public interest and advances the purposes of the Program, the Authority may waive the requirement that all purchases of Qualified Property be made within three (3) years of Application approval (STE Program regulations Section 10035(b)(1)(B)); and

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WHEREAS, the granting the waiver will allow the Project to proceed and the state to receive the anticipated environmental and economic benefits of the Project, thereby advancing both the public interest and the purposes of the STE Program; and

WHEREAS, the Applicant has requested the Authority enter into the Agreement to acquire Project equipment with an estimated cost not to exceed \$5,300,000 over a period of five (5) years; and

WHEREAS, the Applicant asserts that this form of financial assistance will enable it to avail itself of the benefits of an exclusion from sales and use taxes relative to the Project pursuant to Revenue and Taxation Code Section 6010.8; and

WHEREAS, the approval of the terms of the Regulatory Agreement and authority for the Executive Director or Chair of the Authority to execute the necessary documents to effectuate the Regulatory Agreement is now sought;

NOW, THEREFORE, BE IT RESOLVED by the California Alternative Energy and Advanced Transportation Financing Authority, as follows:

Section 1. The Regulatory Agreement includes a Project within the meaning of Public Resources Code Section 26003(a)(8)(B).

Section 2. The Regulatory Agreement constitutes financial assistance within the meaning of Public Resources Code Section 26003(a)(6).

Section 3. The Applicant is a participating party within the meaning of Public Resources Code Section 26003(a)(7).

Section 4. The Executive Director or Chair of the Authority (the “Authorized Signatories”) are hereby authorized for and on behalf of the Authority to approve any changes to the Project as the Authorized Signatories deem appropriate, provided that the amount of the qualifying tangible personal property to be purchased for the Project may not be increased above the amount approved by the Authority.

Section 5. The proposed form of the Regulatory Agreement between the Applicant and the Authority, as filed with the Authority prior to this public meeting, is hereby approved. For, on behalf and in the name of the Authority, the Authorized Signatories are hereby authorized and directed to execute, acknowledge, and deliver to the Applicant the Regulatory Agreement in substantially the form filed with or approved by the Authority.

The Regulatory Agreement may contain insertions, deletions or changes as the Authorized Signatories executing the Regulatory Agreement may require or approve, including particular information inserted in substantial conformance with the staff summary and in the Application to the Authority. The approval of the Regulatory Agreement will be conclusively evidenced by the execution and delivery of the final Regulatory Agreement.

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The Authority understands and agrees that, pursuant to the terms of the Regulatory Agreement, the obligations of the Applicant, under some circumstances, may be carried out or assumed by a successor or assignee entity, or by an affiliate of the Applicant.

Section 6. Each of the Authorized Signatories, acting alone, is hereby authorized and directed to do any and all ministerial acts, including, without limitation, the execution and delivery of any and all documents and certificates they may deem necessary or advisable to consummate the Regulatory Agreement and otherwise effectuate the purposes of this Resolution.

Section 7. The Applicant shall ensure that all of the qualifying tangible personal property acquired as part of the Project that is listed in the semi-annual reports provided to the Authority pursuant to the Regulatory Agreement will be installed, maintained and operated in compliance with all applicable local, state and federal laws.

Section 8. The Regulatory Agreement shall only apply to qualifying tangible personal property acquired as part of the Project that the Applicant certifies will be installed, maintained and operated at facilities physically located within the State of California.

Section 9. Neither the adoption by the Authority of this Resolution for the Applicant nor the Regulatory Agreement may be referred to in any application before any governmental agency as evidence of the feasibility, practicality or suitability of the Project and may not be referred to in any application for any required permission or authority to acquire, construct or operate the Project.

Section 10. Authority finds these are extraordinary circumstances and that it is in the public interest and advances the purposes of the Program to extend the Applicant's deadline to meet the 15% purchase requirement to January 18, 2025.

Section 11. The Authority finds that it is in the public interest and advances the purposes of the Program to extend the Applicant's initial term of the Regulatory Agreement to July 18, 2028.

Section 12. This Resolution is effective immediately and will remain in full force and effect unless the Regulatory Agreement is not executed within thirty (30) days of the date of this Resolution. The Executive Director may extend the thirty (30) days if necessary.