

Paperwork Reduction Act Notice

Draft AAPA Port Equipment Survey

This request is in accordance with the Paperwork Reduction Act of 1995. The information you provide will be used to identify the demand for electric powered port equipment and items.

Purpose: The Infrastructure Investment and Jobs Act and the Inflation Reduction Act make historic levels of infrastructure funding available to ports. However, the funding is to be used for infrastructure items, and not for the purchase of port equipment. Other ports are using the funding to purchase port equipment. The American Association of Port Authorities (AAPA) is collecting information from ports to help identify the demand for electric powered port equipment and other port infrastructure items supported by a pooled procurement. The information will be used to identify the demand for electric powered port equipment and other port infrastructure items supported by a pooled procurement. The information will be used to identify the demand for electric powered port equipment and other port infrastructure items supported by a pooled procurement.

Confidentiality: Your responses will be kept strictly confidential. Your responses will be anonymized and aggregated into industry results presented in reports or presentations. At the end of the survey, you may choose to receive a summary of the final, aggregated results.

Preparation: The survey asks about current equipment orders, new equipment budgeted for future years, and longer-term expectations. Responding will be quicker and easier if that information is on hand.

Device: This survey has been tested to work with mobile devices, but a computer is recommended.

Accessibility: This survey has been designed to be 508-compliant and should work with a screen reader.

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Privacy Act Statement

The following information is provided pursuant to Section 3 of the Privacy Act of 1974 (5 U.S.C. § 55a(b)93):

- Authority:** This survey is being conducted through a cooperative agreement between the Maritime Administration (MARAD) and the American Association of Port Authorities (AAPA).
- Purpose:** The proposed collection (Building American Production Capacity for Electric Port Equipment and Other Port Infrastructure Items) will be used to identify the demand for electrically powered port equipment and other port infrastructure items supported by a pooled procurement.
- Routine Uses:** Responses will be kept strictly confidential by AAPA and its contractor. Responses will be anonymized and aggregated into industry results presented in reports or presentations.
- Disclosure:** Disclosure of this information is voluntary.
- Effects of Not Supplying the Requested Information:** Failure to provide the requested information will limit the accuracy of the reported results and the potential for a pooled procurement.

INTRODUCTION

AAPA seeks information on cargo handling equipment and other items to be acquired for use at U.S. ports, marine terminals and/or inland terminals and that have limited or no domestic suppliers. The survey requests details on cargo handling equipment and other port/terminal items that your organization has:

- On order, as of 2023, but not yet delivered;
- Budgeted but not yet ordered; or
- Planned or anticipated (e.g., as part of a long-term capital plan or terminal expansion), but not yet budgeted or ordered.

Responses should focus on your organization's purchase of new cargo handling equipment and items, which increase and/or replace inventory, as opposed to previously owned equipment or items. Since equipment orders, budgets, and plans can change; we understand that your responses are the best available "snapshot" of current orders and expectations.

The survey includes an initial set of general questions, then questions about equipment for each cargo handled.

Thank you for your participation.

1. Name

[RESPONSE BOX]

2. Email

[RESPONSE BOX]

3. Organization

[RESPONSE BOX]

4. My survey responses that follow are for: (please choose)

- Port
- Single terminal
- Multiple ports/terminals [RESPONSE BOX]
- Other [RESPONSE BOX]

PORT/TERMINAL EQUIPMENT ORDERS AND PLANS

The following sections request information on ordered, budgeted, or planned acquisition of equipment/items for handling container, break-bulk/project, Ro-Ro, dry bulk, and liquid bulk cargo. If your organization does not handle a certain type of cargo, you will be able to skip those questions.

5. Do you handle containers?



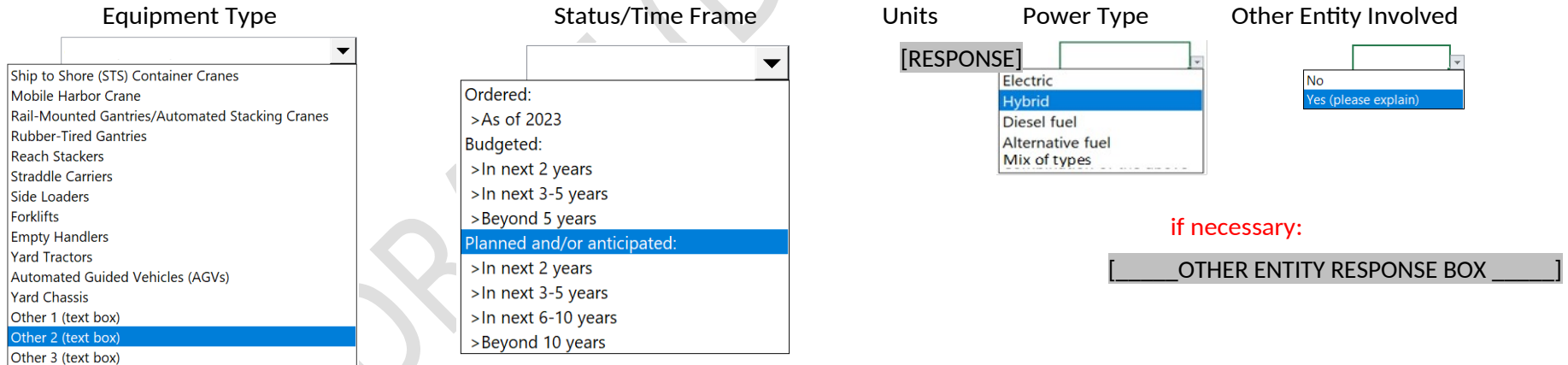
If yes: CONTINUE TO QUESTION 6 - Container Questions

If no: SKIP TO QUESTION 10 - Break Bulk/Project Cargo

6. For container handling equipment, please use the drop-down boxes to indicate:

- Equipment type: the same type can be selected multiple times as needed (e.g., to indicate two STS cranes on order and four STS cranes budgeted for 3-5 years out).
- Status / Timeframe: ordered, budgeted, or planned/anticipated, and year range.
- Number of units.
- Power type: electric, diesel fuel, alternative fuel, hybrid, mix of types.
- If another organization (e.g., terminal operator) is involved in this purchase. Please indicate the organization type in the data entry box.

You can add additional rows for any equipment type as necessary. For each row:



The form displays four dropdown menus for data entry:

- Equipment Type:** A list of equipment types including Ship to Shore (STS) Container Cranes, Mobile Harbor Crane, Rail-Mounted Gantries/Automated Stacking Cranes, Rubber-Tired Gantries, Reach Stackers, Straddle Carriers, Side Loaders, Forklifts, Empty Handlers, Yard Tractors, Automated Guided Vehicles (AGVs), Yard Chassis, and three 'Other' text boxes. 'Other 2 (text box)' is selected.
- Status/Time Frame:** A list of status and timeframe options: Ordered (>As of 2023), Budgeted (>In next 2 years, >In next 3-5 years, >Beyond 5 years), and Planned and/or anticipated (>In next 2 years, >In next 3-5 years, >In next 6-10 years, >Beyond 10 years). 'Planned and/or anticipated:' is selected.
- Units:** A grey box labeled '[RESPONSE]'.
- Power Type:** A list of power types: Electric, Hybrid (selected), Diesel fuel, Alternative fuel, and Mix of types.
- Other Entity Involved:** A dropdown menu with 'No' and 'Yes (please explain)' options. 'Yes (please explain)' is selected.

Below the dropdowns, the text 'if necessary:' is followed by a grey box labeled '[OTHER ENTITY RESPONSE BOX]'.

7. Do you plan or hope to use Federal or state grant funds for any of those purchases?

- Federal funds
- State funds
- Both
- Neither

8. How might availability of Federal or state funds affect your plans? For affected equipment types, please use the radio boxes to indicate how your plans could alter and provide details if available in the data entry box. You can add additional rows for any equipment type as necessary. If all the previously identified equipment will be affected in the same way, please select “All Previously Identified Equipment” from the drop-down box. *For example, if Federal funds were available for new yard tractors and would both accelerate your purchase and allow you to purchase more units, select “Yard Tractors” from the drop-down list and select the radio buttons next to “Order sooner” and “Order more equipment”.*

You can add additional rows for any equipment type as necessary. **For each row:**

<div style="border: 1px solid black; padding: 2px;"><div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 2px;"></div><div style="background-color: #e0f0ff; padding: 2px;">All Previously Identified Equipment</div><div style="padding: 2px;">Ship to Shore (STS) Container Cranes</div><div style="padding: 2px;">Mobile Harbor Crane</div><div style="padding: 2px;">Rail-Mounted Gantries/Automated Stacking Cranes</div><div style="padding: 2px;">Rubber-Tired Gantries</div><div style="padding: 2px;">Reach Stackers</div><div style="padding: 2px;">Straddle Carriers</div><div style="padding: 2px;">Side Loaders</div><div style="padding: 2px;">Forklifts</div><div style="padding: 2px;">Empty Handlers</div><div style="padding: 2px;">Yard Tractors</div><div style="padding: 2px;">Automated Guided Vehicles (AGVs)</div><div style="padding: 2px;">Yard Chassis</div><div style="padding: 2px;">Other 1 (text box)</div><div style="padding: 2px;">Other 2 (text box)</div><div style="padding: 2px;">Other 3 (text box)</div></div>	<ul style="list-style-type: none"><input type="checkbox"/> Order sooner<input type="checkbox"/> Order more equipment<input type="checkbox"/> Alter equipment specification<input type="checkbox"/> Purchase new rather than used or upgrade<input type="checkbox"/> Other (please explain) <div style="border: 1px solid gray; background-color: #e0e0e0; padding: 5px; margin-top: 10px; text-align: center;">DETAILS & OTHER RESPONSE BOX</div>
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9. Do you have additional comments, or is there anything else that we should know about your container handling equipment plans?

RESPONSE BOX

END CONTAINER QUESTIONS

12. Do you plan or hope to use Federal or state grant funds for any of those purchases?

- Federal funds
- State funds
- Both
- Neither

13. How might availability of Federal or state funds affect your plans? For affected equipment types, please use the radio boxes to indicate how your plans could alter, and provide details if available in the data entry box. You can add additional rows for any equipment type as necessary. If all the previously identified equipment will be affected in the same way, please select “All Previously Identified Equipment” from the drop-down box. *For example, if Federal funds were available for new forklifts and would both accelerate the purchase and allow you to purchase more units, select “Forklifts” from the drop-down list and select the radio buttons next to “Order sooner” and “Order more equipment”.*

You can add additional rows for any equipment type as necessary. **For each row:**

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All Previously Identified Equipment

Quayside Cranes

Mobile Cranes

Side Loaders

Forklifts

Yard Tractors

Other 1 (text box)

Other 2 (text box)

Other 3 (text box)

- Order sooner
- Order more equipment
- Alter equipment specification
- Purchase new rather than used or upgrade
- Other (please explain)

DETAILS & OTHER RESPONSE BOX

14. Do you have any additional comments, or is there anything else that we should know about your break bulk or project cargo handling equipment plans?

RESPONSE BOX

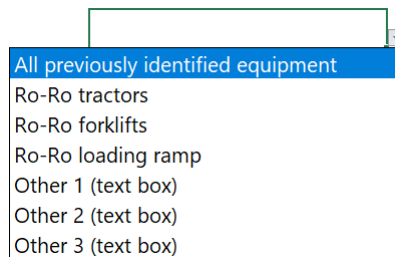
END BREAK BULK/PROJECT CARGO QUESTIONS

17. Do you plan or hope to use Federal or state grant funds for any of those purchases?

- Federal funds
- State funds
- Both
- Neither

18. How might availability of Federal or state funds affect your plans? For affected equipment types, please use the radio boxes to indicate how your plans could alter, and provide details, if available, in the data entry box. You can add additional rows for any equipment type as necessary. If all the previously identified equipment will be affected in the same way, please select "All previously identified equipment" from the drop-down box. *For example, if Federal funds were available for Ro-Ro forklifts and would both accelerate the purchase and allow you to purchase more units, select "Ro-Ro Forklifts" from the drop-down list and select the radio buttons next to "Order sooner" and "Order more equipment"*.

You can add additional rows for any equipment type as necessary. **For each row:**



A screenshot of a dropdown menu. The menu is open, showing a list of options. The top option is "All previously identified equipment" and is highlighted in blue. Below it are "Ro-Ro tractors", "Ro-Ro forklifts", "Ro-Ro loading ramp", "Other 1 (text box)", "Other 2 (text box)", and "Other 3 (text box)".

- Order sooner
- Order more equipment
- Alter equipment specification
- Purchase new rather than used or upgrade
- Other (please explain)

[DETAILS & OTHER RESPONSE BOX]

19. Do you have any additional comments, or is there anything else that we should know about your Ro-Ro cargo handling equipment plans?

[RESPONSE BOX]

END RO-RO CARGO QUESTIONS

22. Do you plan or hope to use Federal or state grant funds for any of those purchases?

- Federal funds
- State funds
- Both
- Neither

23. How might availability of Federal or state funds affect your plans? For affected equipment types please use the radio boxes to indicate the impact and provide details if available in the data entry box. You can add additional rows for any equipment type as necessary. If all the previously identified equipment will be affected in the same way, please select "All previously identified equipment" from the drop-down box. For example, if Federal funds were available for new yard tractors and would both accelerate the purchase and allow you to purchase more units, select "Yard Tractors" from the drop-down list and select the radio buttons next to "Order sooner" and "Order more equipment".

You can add additional rows for any equipment type as necessary. For each row:

<input type="text"/>
All previously identified equipment
Ship loaders/unloaders
Mobile Loaders
Yard conveyors
Yard Tractors
Other 1 (text box)
Other 2 (text box)
Other 3 (text box)

- Order sooner
- Order more equipment
- Alter equipment specification
- Purchase new rather than used or upgrade
- Other (please explain)

DETAILS & OTHER RESPONSE BOX

24. Do you have additional comments, or is there anything else that we should know about your dry bulk cargo handling equipment plans?

RESPONSE BOX

END DRY BULK CARGO QUESTIONS

25. Do you handle Liquid Bulk cargo?

 No
 Yes

If yes: CONTINUE TO QUESTION 26 - Liquid Bulk Cargo Questions

If no: SKIP TO QUESTION 30 - Non-cargo handling equipment

26. For liquid bulk cargo handling equipment, please use the drop-down boxes to indicate:

- Equipment type: the same equipment type can be selected multiple times as needed (e.g., to indicate two ship loading arms on order and four loading arms budgeted for 3-5 years out).
- Status / Timeframe: ordered, budgeted, or planned/anticipated, and year range.
- Number of units.
- Power type: electric, diesel fuel, alternative fuel, hybrid, mix of types.
- If another organization (e.g., terminal operator) is involved in this purchase. Please indicate the organization type in the data entry box.

You can add additional rows for any equipment type as necessary. For each row:

Equipment Type	Status/Time Frame	Units	Power Type	Other Entity Involved
<input type="checkbox"/> Marine loading arms <input checked="" type="checkbox"/> Ship loaders/unloaders Other 1 (text box) Other 2 (text box) Other 3 (text box)	<input type="checkbox"/> Ordered: >As of 2023 Budgeted: >In next 2 years >In next 3-5 years >Beyond 5 years <input checked="" type="checkbox"/> Planned and/or anticipated: >In next 2 years >In next 3-5 years >In next 6-10 years >Beyond 10 years	[RESPONSE]	<input type="checkbox"/> Electric <input checked="" type="checkbox"/> Hybrid Diesel fuel Alternative fuel Mix of types	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (please explain)

if necessary:
[OTHER ENTITY RESPONSE BOX]

27. Do you plan or hope to use Federal or state grant funds for any of those purchases?

- Federal funds
- State funds
- Both
- Neither

28. How might availability of Federal or state funds affect your plans? For affected equipment types please use the radio boxes to indicate the impact and provide details if available in the data entry box. You can add additional rows for any equipment type as necessary. If all the previously identified equipment will be affected in the same way, please select "All previously identified equipment" from the drop-down box. For example, if Federal funds were available for new marine loading arms and would both accelerate the purchase and allow you to purchase an extra unit, select "Marine loading arms" from the drop-down list and select the radio buttons next to "Order sooner" and "Order more equipment".

You can add additional rows for any equipment type as necessary. **For each row:**

All previously identified equipment
Marine loading arms
Ship loaders/unloaders
Other 1 (text box)
Other 2 (text box)
Other 3 (text box)

- Order sooner
- Order more equipment
- Alter equipment specification
- Purchase new rather than used or upgrade
- Other (please explain in the response box)

DETAILS & OTHER RESPONSE BOX

29. Do you have additional comments, or is there anything else that we should know about your liquid bulk cargo handling equipment plans?

RESPONSE BOX

END LIQUID BULK CARGO QUESTIONS

30. Do you purchase other (non-cargo handling) port/terminal equipment? Examples could include bollards and fenders, shore-power installations, rail infrastructure, etc.

 No
 Yes

If yes: CONTINUE TO QUESTION 31 - Other Type Questions

If no: SKIP TO QUESTION 35 - Planning and Funding

31. For other (non-cargo handling port/terminal equipment, please use the response boxes to indicate:

- Equipment type, size (if applicable).
- Status / Timeframe: ordered, budgeted, or planned/anticipated, and year range.
- Number of units.
- Cost, if available.
- If another organization (e.g., terminal operator) is involved in this purchase. Please indicate the organization type in the data entry box.

You can add additional rows for any equipment type as necessary.

Equipment Type

Size

Status/Time Frame

- Ordered:
 - >As of 2023
- Budgeted:
 - >In next 2 years
 - >In next 3-5 years
 - >Beyond 5 years
- Planned and/or anticipated:**
 - >In next 2 years
 - >In next 3-5 years
 - >In next 6-10 years
 - >Beyond 10 years

Units

Cost

Other Entity Involved

 No
 Yes (please explain)

if necessary:

32. Do you plan or hope to use Federal or state grant funds for any of those purchases?

- Federal funds
- State funds
- Both
- Neither

33. How might availability of Federal or state funds affect your plans? For affected equipment types please use the radio boxes to indicate the impact and provide details if available in the data entry box. You can add additional rows for any equipment type as necessary. If all the previously identified equipment will be affected in the same way, please check the "All Previously identified equipment" box. *For example, if Federal funds were available for new bollards and would both accelerate the purchase and allow you to purchase more units, type "Bollards" in the response box and select the radio buttons next to "Order sooner" and "Order more equipment".*

You can add additional rows for any equipment type as necessary. **For each row:**

Equipment Type All Previously identified equipment **or** Equipment type: [_RESPONSE_]

- Order sooner
- Order more equipment
- Alter equipment specification
- Purchase new rather than used or upgrade
- Other (please explain in the response box)

[_DETAILS & OTHER RESPONSE BOX_]

34. Do you have any additional comments, or is there anything else that we should know about your other port or terminal equipment plans?

[_RESPONSE BOX_]

PLANNING AND FUNDING

35. How does your organization typically plan for major equipment acquisitions? Please select all that apply, and provide any explanatory details in the box below.

- Annual budget
- Short term plan: 2-5 years
- Longer-term plan: 6+ years
- Based on grant availability
- Project by project
- Other [RESPONSE BOX]

[DETAILS RESPONSE BOX]

36. Does your organization have a plan or policy for zero/ near zero-emissions equipment? (If yes, can we get a copy?)

No
 Yes
 Yes, contact me for a copy
 Yes, use this URL

[RESPONSE BOX FOR URL]

37. Does another organization purchase cargo handling equipment for your port/terminal(s)?

No
 Yes

If yes:

- Who else purchases cargo handling equipment for your port/terminal(s)? [RESPONSE]
- How are costs usually shared? [RESPONSE]
- What do the other parties usually purchase? [RESPONSE]

POOLED/GROUP EQUIPMENT PURCHASING

There are precedents for pooled or group equipment ordering and purchasing where multiple organizations need the same equipment types. These arrangements can yield cost savings or support domestic production of equipment that might otherwise have to come from foreign sources. *For example, the Ports of Tacoma and Seattle cooperate under the Northwest Seaport Alliance.*

38. Has your organization previously explored or participated in group/pooled equipment purchase arrangements with other organizations? (i.e., with another port)

 No
 Yes (please explain)

if necessary:

39. Would your organization be interested in group/pooled purchase arrangements for port and terminal equipment?

 No
 Yes (please explain)

SURVEY COMPLETION

40. Is there anything else we should know or that you would like to add?

41. If we need to follow up or clarify responses, whom should we contact?

42. Thank you for your time. Would like a summary of the survey findings?

- Yes
- No