

Inflation Reduction Act



What does the Inflation Reduction Act mean for Nyle Water Heating Systems?

The Inflation Reduction Act, signed into law this week is a significant move toward decarbonizing the built environment. Domestic water heating systems have remained relatively unchanged for the past fifty years. Given that heating domestic water represents the second largest demand for energy in buildings with bedrooms and bathrooms, it is long past time to apply 21st-century technology to heating up water for use in our homes.

Over the coming months, we will find out exactly what this Act will do for our industry. It is clear that to the extent possible, the intent is to:

- Lower the cost of heat pump water heaters across all use cases.
- Raise awareness among consumers to increase the penetration of heat pump water heaters in new construction residential structures.
- Raise awareness among plumbers, mechanical and solar contractors.
- Provide training to sales, engineers and technicians to increase promotion and recommendations for heat pump water heaters.
- Influence building/energy codes to require heat pump water heaters.
- Help manufacturers like Nyle Water Heating Systems on-shore and scale-up the production of heat pump water heaters for the US market.

Why electrically driven heat pump water heaters versus any other approach?

- A heat pump is the only emission-free, dispatchable approach to heating water which is more than 100% efficient.
- A heat pump water heating system can be utilized for demand response and energy storage in conjunction with increasing amounts of variable renewable energy production.
- Because a heat pump produces three times as much heat energy as it consumes, the electrical service requirement for a heat pump is 1/3 or less than an equivalent resistive electric water heater.
- Smart designs can leverage the cooling effect, making the heat pump water heater a contributor to the mechanical cooling system for the building, further enhancing the utility and efficiency of the system.

Nyle Water Heating Systems is pushing the industry forward, helping to accelerate the adoption of Low GWP refrigerants and control systems which enhance the capabilities of heat pump water heaters. We are eager to take full advantage of resources which can be provided through this historic Act and are excited to share this technology and the resulting "green" hot water that our heat pumps provide. Onward!

Ryan S Hamilton
Ryan Hamilton, CCO NWHS

Sound Testing



We at Nyle have been making efforts into improving our sound testing for our heat pump units. Quieter heat pump water heaters have an advantage over louder heat pumps when local ordinances require lower noise levels. Seattle for example has an ordinance that requires lower noise levels 20 feet away from the unit. This also varies by time of day, with stricter requirements at night.

We've had the ability to measure sound levels for a while but very recently we've improved our hardware to measure 8-octave bands as opposed to just measuring units in dBA. Essentially we can provide a lot more data to acoustic engineers and builder designers.

e8 In House Testing



Nyle has begun performing in-house certification tests while optimizing the system designs on the e8 unit. Nyle has built a test station that is controlled by a PLC with three different subroutines for different tests. The three subroutines include setting the outlet temperature, calculating the first-hour rating, and a simulated use test. The station was built inside our test chamber so that we can meet the strict atmospheric requirements of the Energy Star Standard. We have been very happy with how the tests have progressed and we are looking forward to sharing more news very soon.

ASPE Expo



The team at Nyle Water Heating System are excited to be attending ASPE expo on September 19th and 20th. We're at booth number 1719, we look forward to seeing everyone in person and hope if you are in attendance you will swing by and say hi!

[Visit Our E-Booth!](#)

Factory Certification Training

Nyle Water Heating Systems is happy to announce that we have scheduled four upcoming training sessions for factory certification. Remember, all NWHS HPWHs must be commissioned by a factory-trained technician in order to activate the warranty. We look forward to showing you our facility and training your technicians on our equipment. We will include training in basic refrigeration, electrical testing, controls, system design, and our start-up procedure. We will be providing you with meals and accommodations while you are our guests.

The upcoming trainings are scheduled for:

- Sep 7, 2022 - Sep 8, 2022
- Sep 20, 2022 - Sep 21, 2022
- Oct 4, 2022 - Oct 5, 2022
- Oct 25, 2022 - Oct 26, 2022

If you are interested in sending your technicians to any of these training sessions contact your sales rep and provide them with the technician's Name, Email, Position, and phone number or sign up with the link below.

[Sign-up here!](#)

Installation Highlight

303 Battery



303 Battery Street is a 15-story, 112-unit complex in Seattle's Belltown Neighborhood. It is the first multifamily tower to meet the net zero energy requirements set by the Living Building Challenge Program.

The 303 Battery Street project's hot-water demand is met with the C185 Air-Source water heater. We'd like to thank our rep who worked on this project; California Hydronics Corporation.

The Alex



The Alex is an affordable rental project for Atira Women's Resource Society, developed in partnership with the Metro Vancouver, BC Housing, City of Port Coquitlam, and Fraser Health Authority. The TL Housing Solutions project consists of 11 townhomes and 72 apartments.

The Alex project will be using a C90A-Blower heat pump water heater to make domestic hot water for the building while simultaneously cooling a nearby electrical room. The unit was completed and shipped out this month. It's an excellent example of how Nyle heat pumps can excel at cooling and dehumidifying mechanical spaces while also providing domestic hot water.

We would like to give a shoutout to our British Columbia Reps, Olympic International, who provided design assistance to the developers allowing them to lower the carbon footprint of the building!

Industry News

Heat Pump Water Heater Field Study



ADVANCED WATER HEATING INITIATIVE™

Advanced Water Heating Initiative (AWHI) is running a 120-volt heat pump water heater field study! Participants will receive a new, energy-efficient heat pump water heater at no cost in exchange for participating in the 12-month study. If you meet the following criteria proceed to the prescreening questionnaire:

- Existing gas water heater (must have a storage tank. Tankless not eligible)
- Utility customer of Pacific Gas & Electric (PG&E), Sacramento Municipal Utility District (SMUD), or Southern California Edison (SCE)
- Small household with 4 people or less

[Fill Out the Questionnaire!](#)

D.C. Natural Gas Ban



By 2026, all new buildings and renovations in Washington D.C. will have to be net-zero construction due to legislation unanimously passed by the D.C. Council on July 27th. Buildings will be prohibited from using on-site fuel combustion for furnaces or water heaters. A separate climate legislation commits to making the entire city carbon neutral by 2045.

[Read the Full Article!](#)

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