

400 North Market Street
Marion, IL

618.964.9418
bboyt@boytengineering.com

Winter 2022 NEWSLETTER

Engineering News

Future new buildings in New York City must solely use electricity, after a new bill banning the use of gas in new buildings was signed by outgoing mayor Bill DeBlasio. The stated goal was to reduce fossil fuel usage, although nearly half of all electricity is also produced by fossil fuels, and some gas usage had already become "renewable" via use of hydrogen and gas from landfills. Future operating costs are expected to be initially higher, largely due to heating season.

ASHRAE Journal in the Oct 2021 issue had an article "Solving the Large Building All-Electric Heating Problem". Some of the items in the article apply to all building types and give a nature of some issues with the all-electric City going forward. Electrical heating using electricity has four main options: A) air source heat pumps, B) electric boilers, C) wire to air electric resistance coils, and D) heat recovery chillers. The first install costs of A & D are high while ongoing utility bills will be high with B & C. Option A has a declining heating capacity with declining outdoor temperatures this requires using option C as a supplement. Option D requires developing hot water and chilled water simultaneously and is not suited to smaller buildings. Overall, it is hard to square going to exclusive use of electricity and abandoning natural gas currently.

Getting to Know Us



Boyt Engineering is excited to welcome our newest team member, Dalton Phelps. Dalton received his degree in Electrical Engineering from the University of Southern Indiana in Evansville. He enjoys math and the challenge of solving problems. When he's not working, Dalton enjoys playing video games, exploring experimental music, and running.

At Boyt Engineering, we design buildings to meet our clients' needs.

For more information, visit our website:

www.boytengineering.com

From Our Kitchen to Yours: Quick Beef & Broccoli

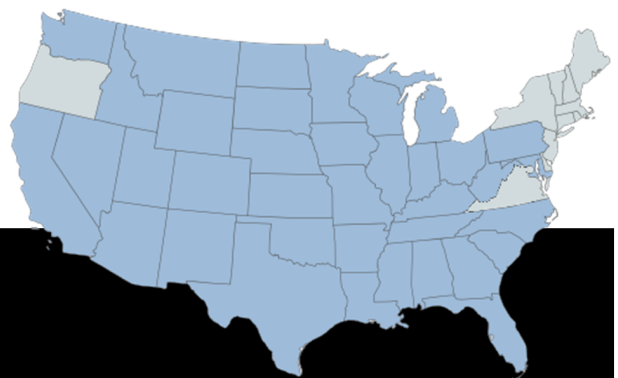
Ingredients:

- 2 TB Olive Oil
- 1 lb Bottom Round Steak (sliced in strips)
- 1 Broccoli Crown (cut bite-sized)
- 1 tsp Ginger Paste
- 1 TB Garlic
- 2 TB Soy Sauce
- 1 TB Fish Sauce
- Prepared Rice

Instructions:

1. Heat half of the oil in a pan over medium high heat. Brown steak, stirring occasionally.
2. Remove steak and set aside. Cover.
3. Add remaining oil and broccoli. Cover. Stir every few minutes.
4. When broccoli is softened, return steak to pan and add remaining ingredients. Stir well until heated through and fragrant.
5. Serve over prepared rice.

Happy Cooking!



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