Energy Optimization Background Resources- Office of the Consumer Advocate

[Attached] are the six documents I sent Decker over a period of two or three emails that were on google drive because they otherwise didn't have hyperlinks.



And below are the documents that were in the various emails that do have clickable links:

- 1. VT had a few resources were covered in the RFP.
- 2. Cadmus 2016 heat pump impact evaluation, used for CT pilot inputs.
- RI's 2019 EE Plan describes their embrace of a new heat pump initiative focused on displacing oil/propane (pdf. <u>Page 100-102/402 and 200/402</u>) Their 2018 TRM captures energy impact figures <u>at 108-113</u> of 1082, but doesn't have one for fuel switching from propane.
- 4. Regional <u>report</u> from VEIC that includes in its appendices the various TRM treatments of heat pumps, though it's now somewhat dated.
- 5. NEEP's strategic electrification <u>action plan</u> suggests retraining workers whose jobs are at risk from electrification such as fuel dealers and the entire internal combustion engine supply chain should be a priority.
- 6. Rhode Island's <u>Renewable Thermal Strategy</u> suggests: Rhode Island stakeholders reported challenges in hiring adequately trained personnel. Contractors and oil heat dealers specifically noted that the licenses and certifications required to install some RT technologies present a significant barrier for bringing new skilled labor into the market, particularly when compared to neighboring states. For example, oil dealers pointed out that installing residential air source heat pumps in RI requires a journeyman refrigeration license and the requisite 240 hours of schooling and two years of apprenticeship. Massachusetts, on the other hand, only requires the completion of a written exam to install residential systems... the Office of Energy Resources could conduct outreach to and incentivize HVAC contractors and oil heat dealers to participate in subsidized RT training programs with the goal of driving participants to integrate renewable thermal technologies into their product offerings.

And as a reminder, these were the documents referenced in the RFP:

- NMR Group (September 20, 2018). Initial Considerations for Attribution/Net-to-Gross Estimation for Energy Optimization (TXC56). Retrieved from <u>http://ma-eeac.org/wordpress/wp-</u> content/uploads/TXC 56 -EnergyOptMemo REVISED FINAL 20Sept2018.pdf
- Energy Futures Group. "Tier 3" Statewide Total Energy Program ('STEP") Beyond Fossil Fuels: An Overview, Analysis and projected Impacts for One of Vermont's Essential Climate Protection Strategies. (October 17, 2018) Retrieved from: <u>http://www.energyfuturesgroup.com/wpcontent/uploads/2018/10/Tier-3-White-Paper.pdf</u>
- 3. The Narragansett Electric Company d/b/a National Grid (November 1, 2017). Annual Energy Efficiency Plan for 2018 Settlement of the Parties. Retrieved from <u>http://rieermc.ri.gov/wp-content/uploads/2017/11/4755-ngrid-eepp2018_11-1-17.pdf</u>
- Vermont Public Service Department (February 24, 2015). H.40 Renewable Energy Standard & Energy Transformation (RESET) Program. Retrieved from <u>https://legislature.vermont.gov/assets/Documents/2016/WorkGroups/House%20Commerce/Bills/H</u> <u>.40/Witness%20Testimony%20and%20Comments/H.40~Rebecca%20Ellis~Notes%20Regarding%20H</u> <u>.40~2-24-2015.pdf</u>