

# Historical load review

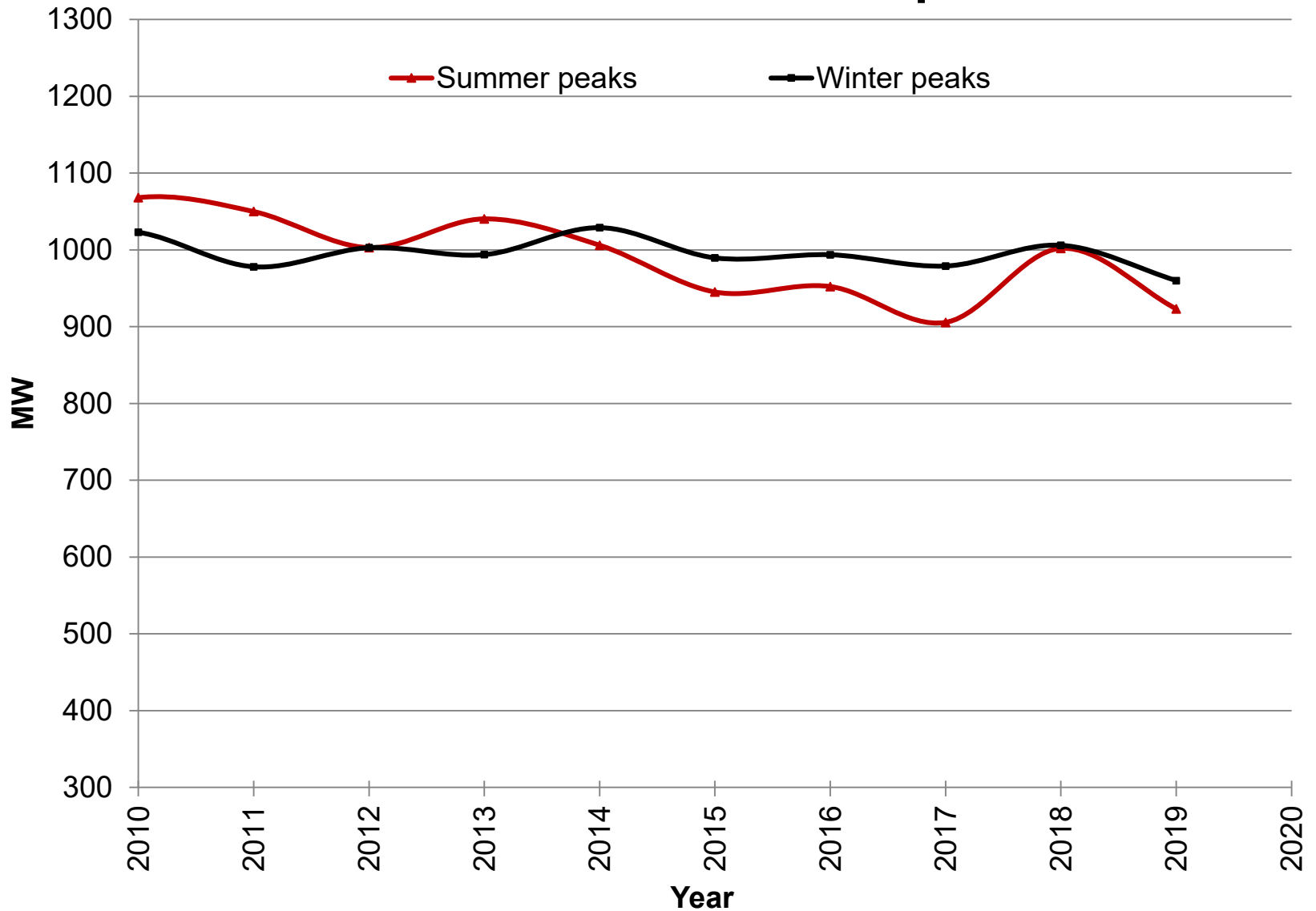


October 16<sup>th</sup>, 2019  
VSPC quarterly meeting

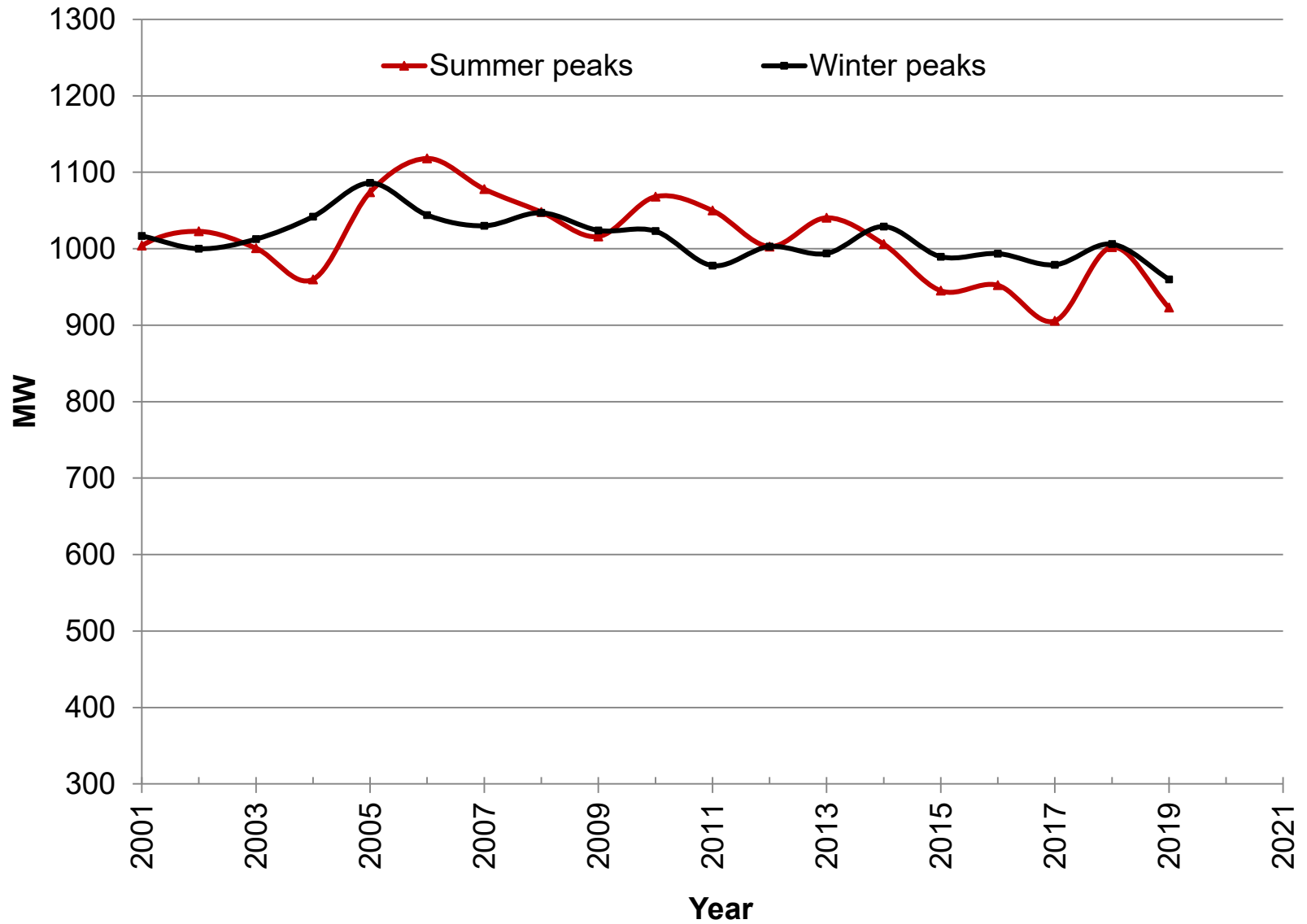
# Historical Load Review

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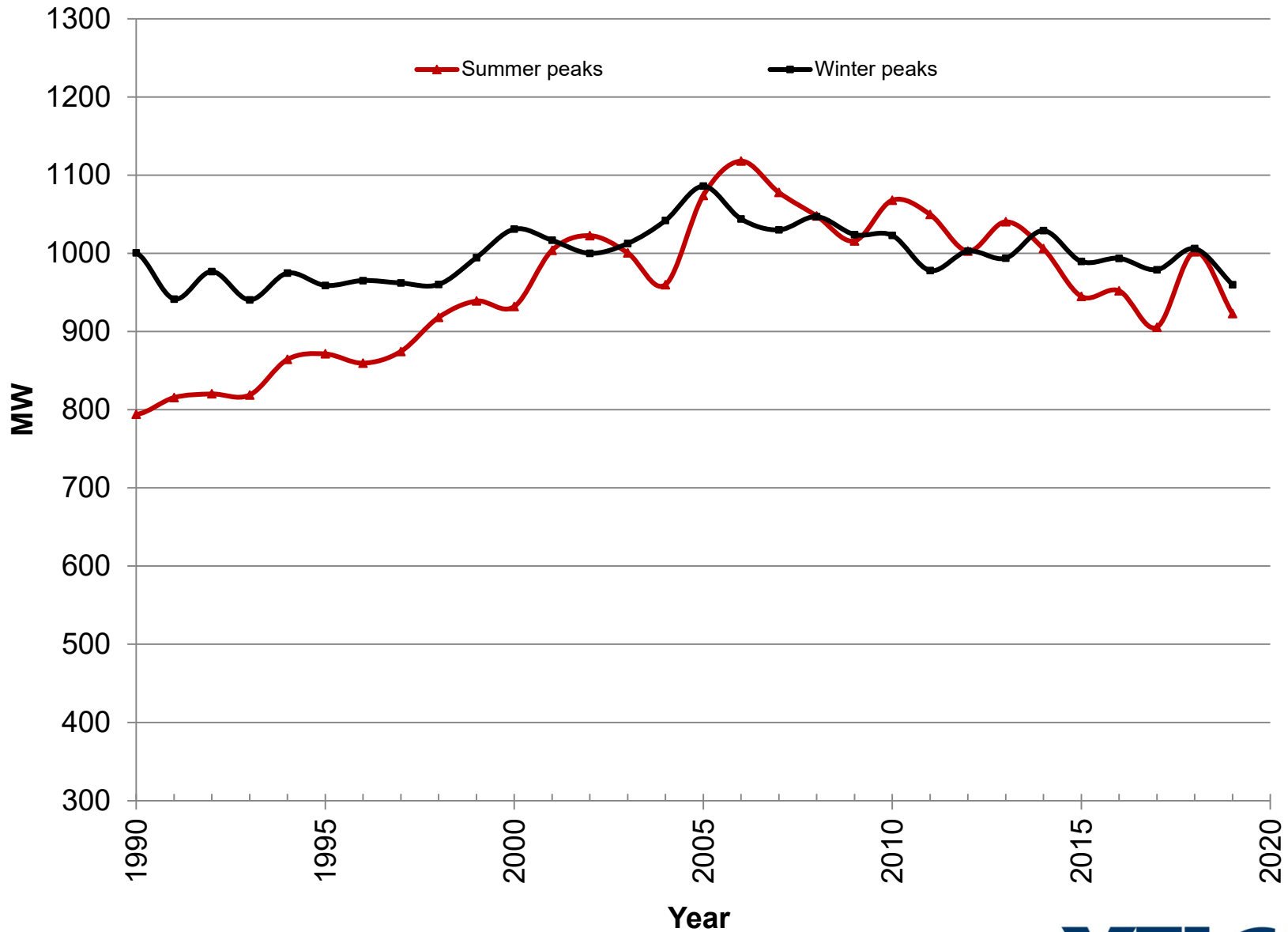
# Vermont historical seasonal peak demand



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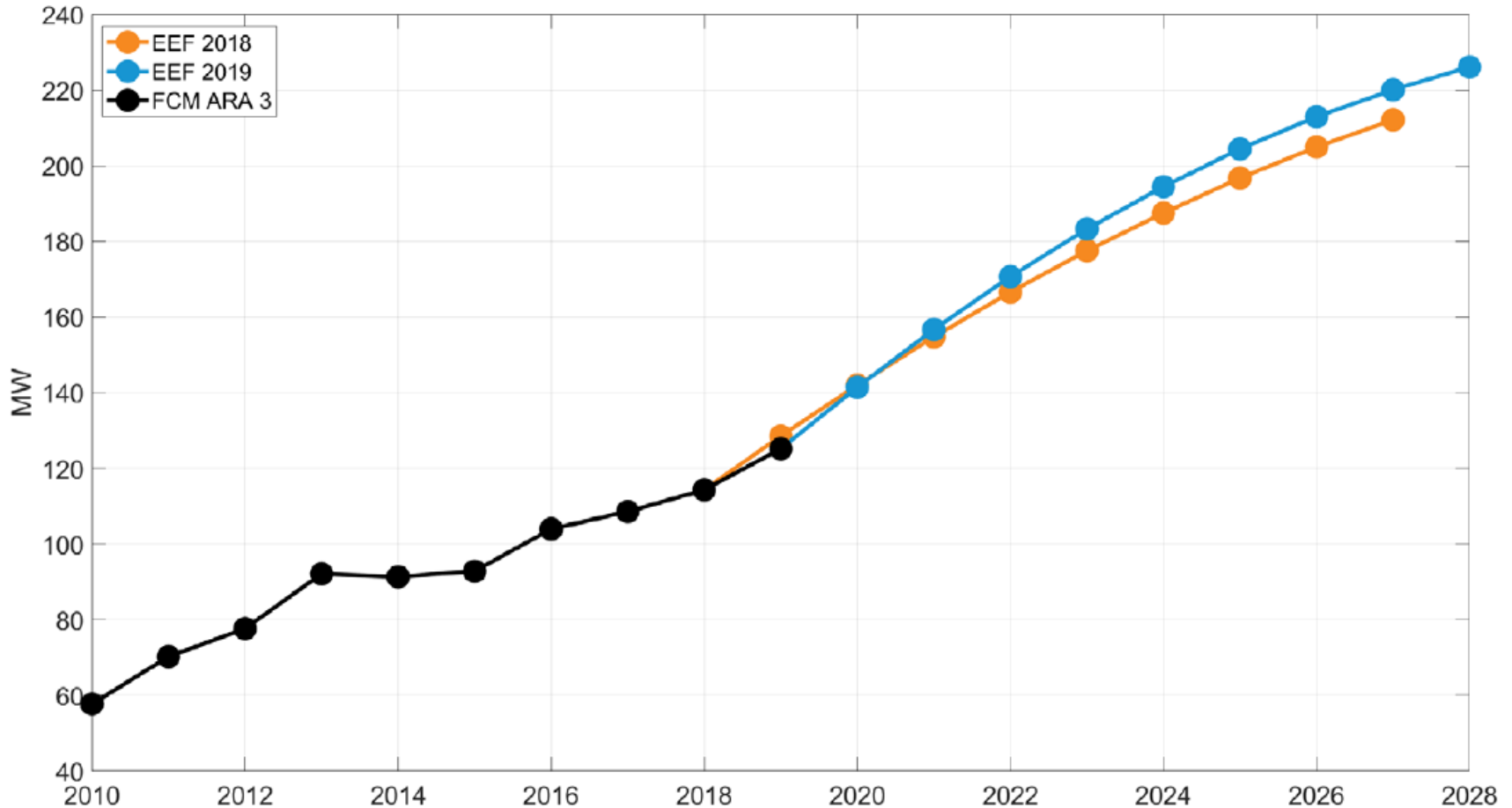


# Efficiency Vermont's EE MW savings

Year	EE Measure direct cost (\$M)	Winter peak MW savings	Summer peak MW savings
2000	\$ 5.65	5.3	2.0
2001	\$ 9.09	6.4	4.2
2002	\$ 10.97	7.5	5.0
2003	\$ 13.42	8.1	6.5
2004	\$ 18.87	7.3	7.4
2005	\$ 20.79	8.8	9.0
2006	\$ 17.61	8.2	8.8
2007	\$ 25.49	14.5	12.9
2008	\$ 40.48	22.7	20.6
2009	\$ 28.64	14.9	12.9
2010	\$ 34.08	20.3	16.4
2011	\$ 31.61	18.4	13.5
2012	\$ 41.80	22.1	15.2
2013	\$ 40.35	16.7	11.2
2014	\$ 46.32	16.5	10.3
2015	\$ 46.26	18.5	12.2
2016	\$ 52.09	22.6	14.9
2017	\$ 50.86	29.3	18.5
2018	\$ 48.82	24.6	18.4

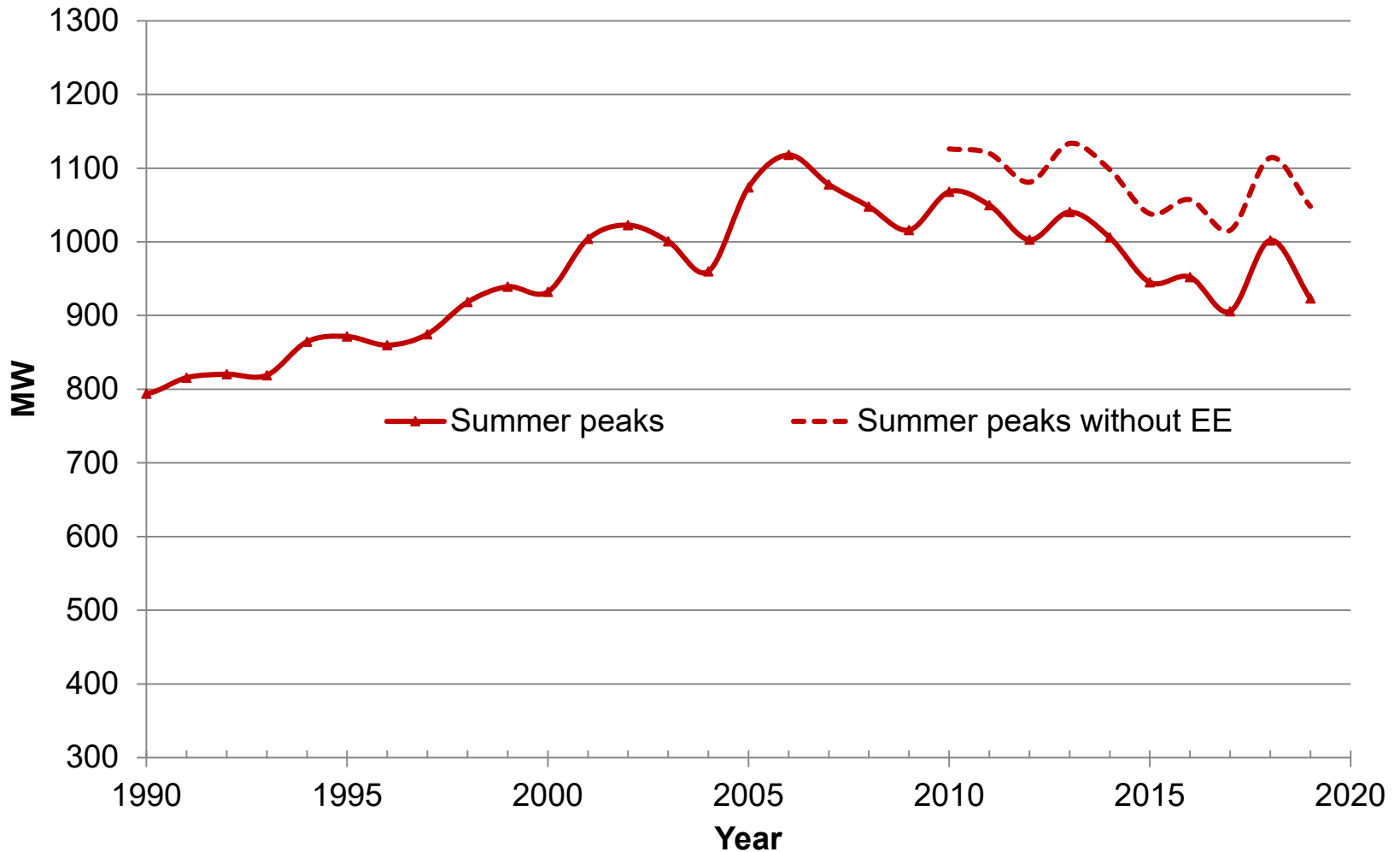
# Vermont

## Energy Efficiency on Summer Peak



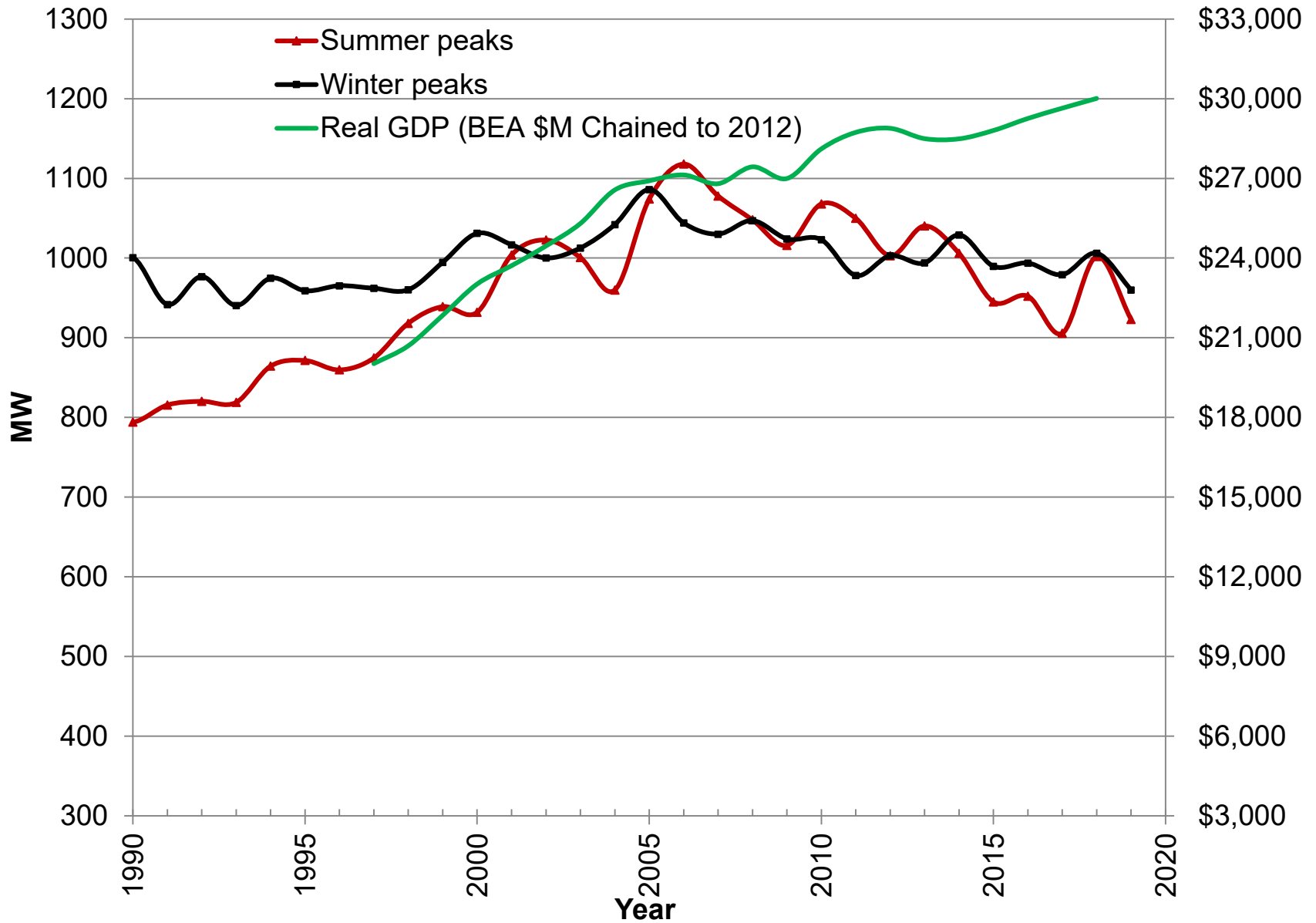
[https://www.iso-ne.com/static-assets/documents/2019/04/eef2019\\_final\\_fcst.pdf](https://www.iso-ne.com/static-assets/documents/2019/04/eef2019_final_fcst.pdf)

# Vermont historical Summer peak demand and FCM EE effect



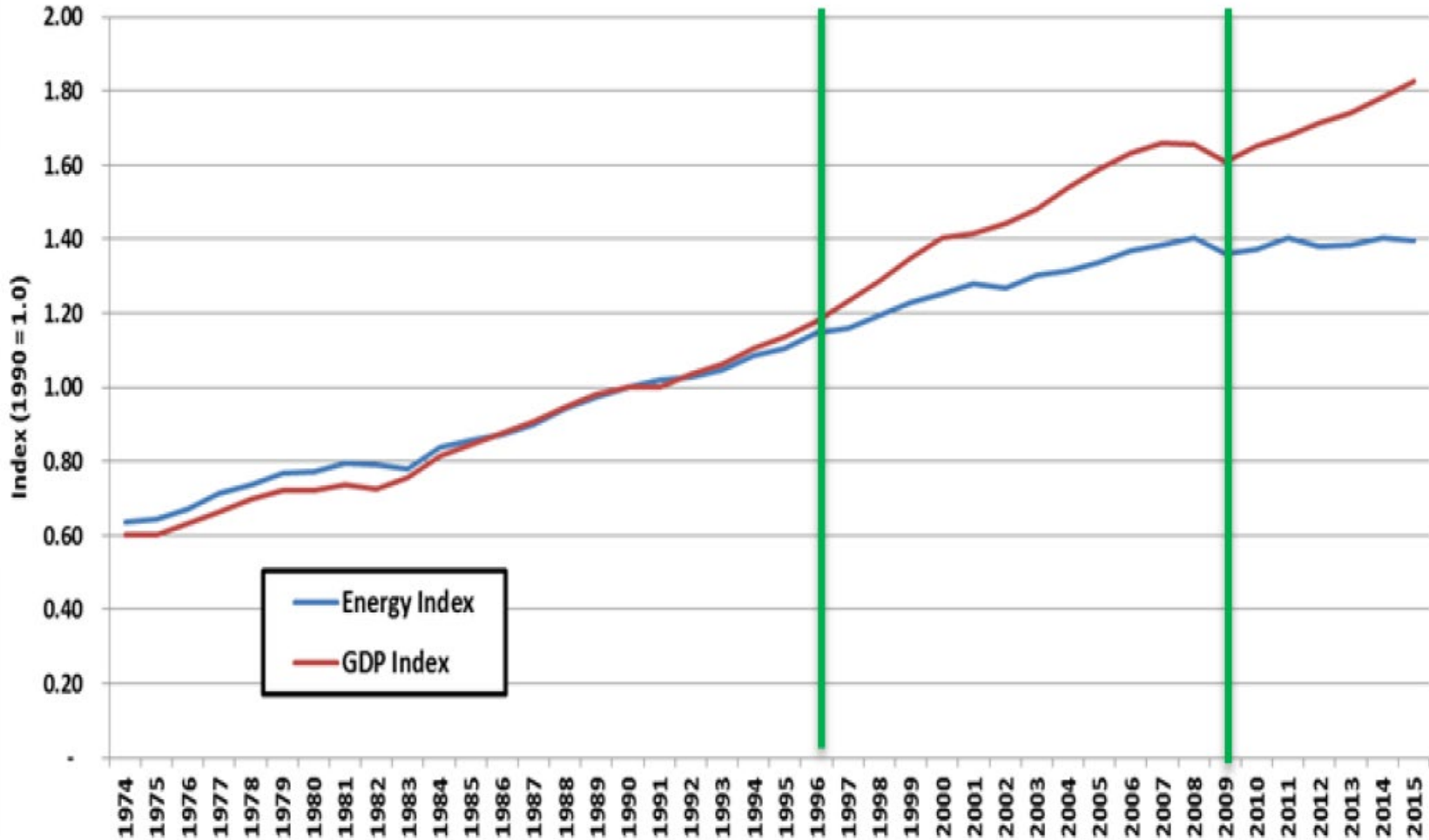


# Vermont historical seasonal peak demand



# Index Comparison

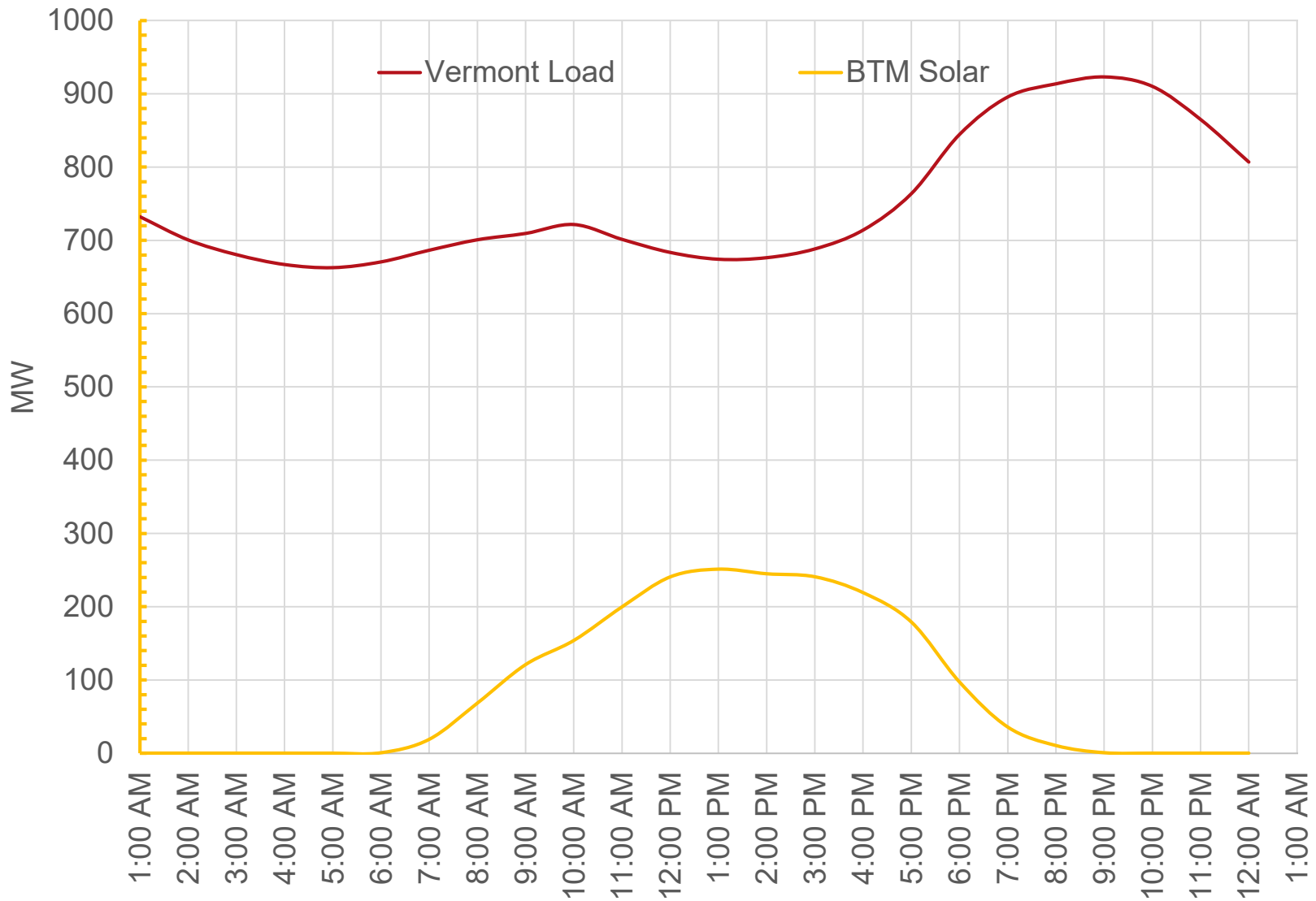
## GDP vs Electric Consumption



# 2019 Summer Peak Review

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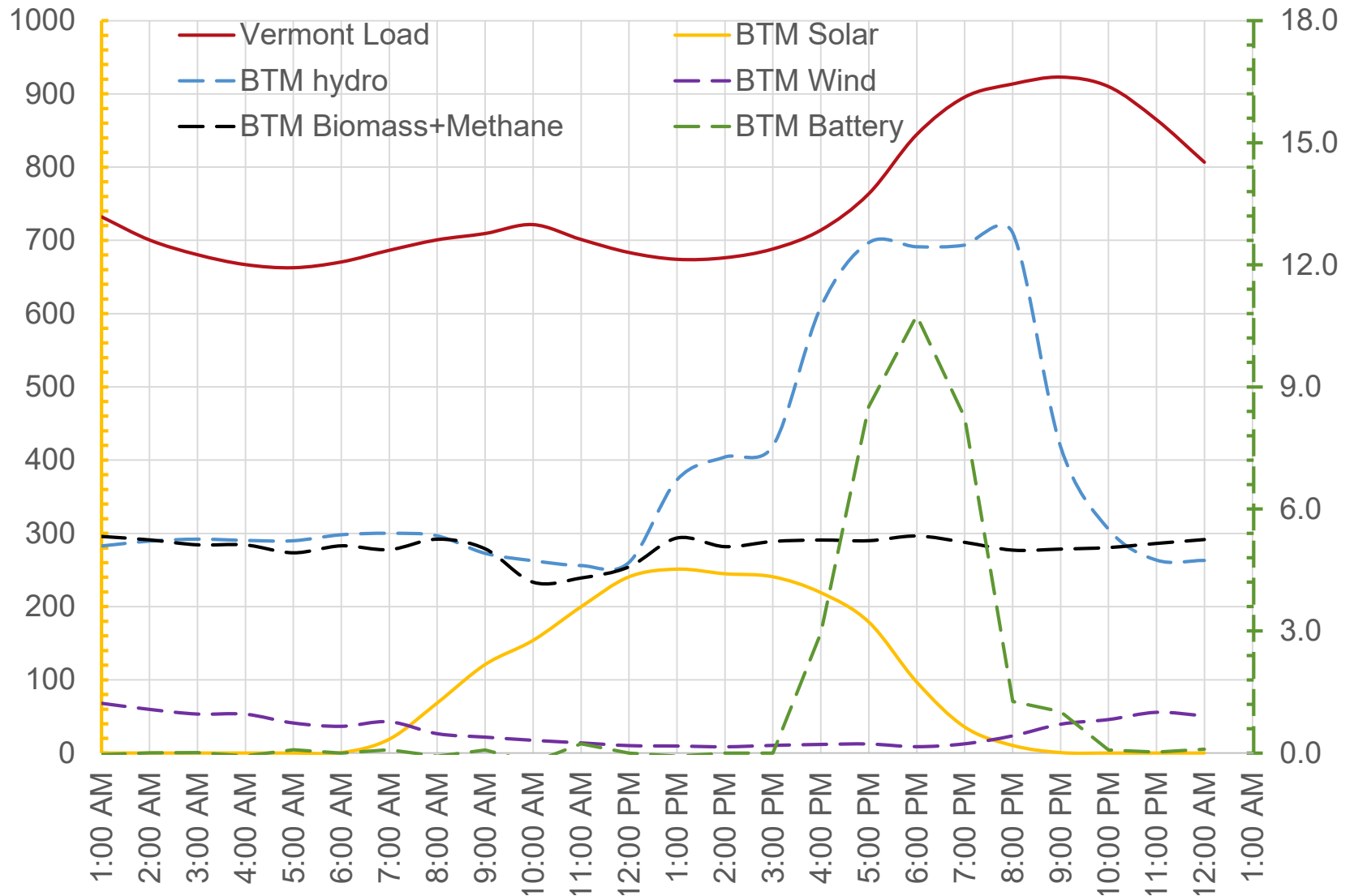
# July 20, 2019 (Vermont Summer peak day)



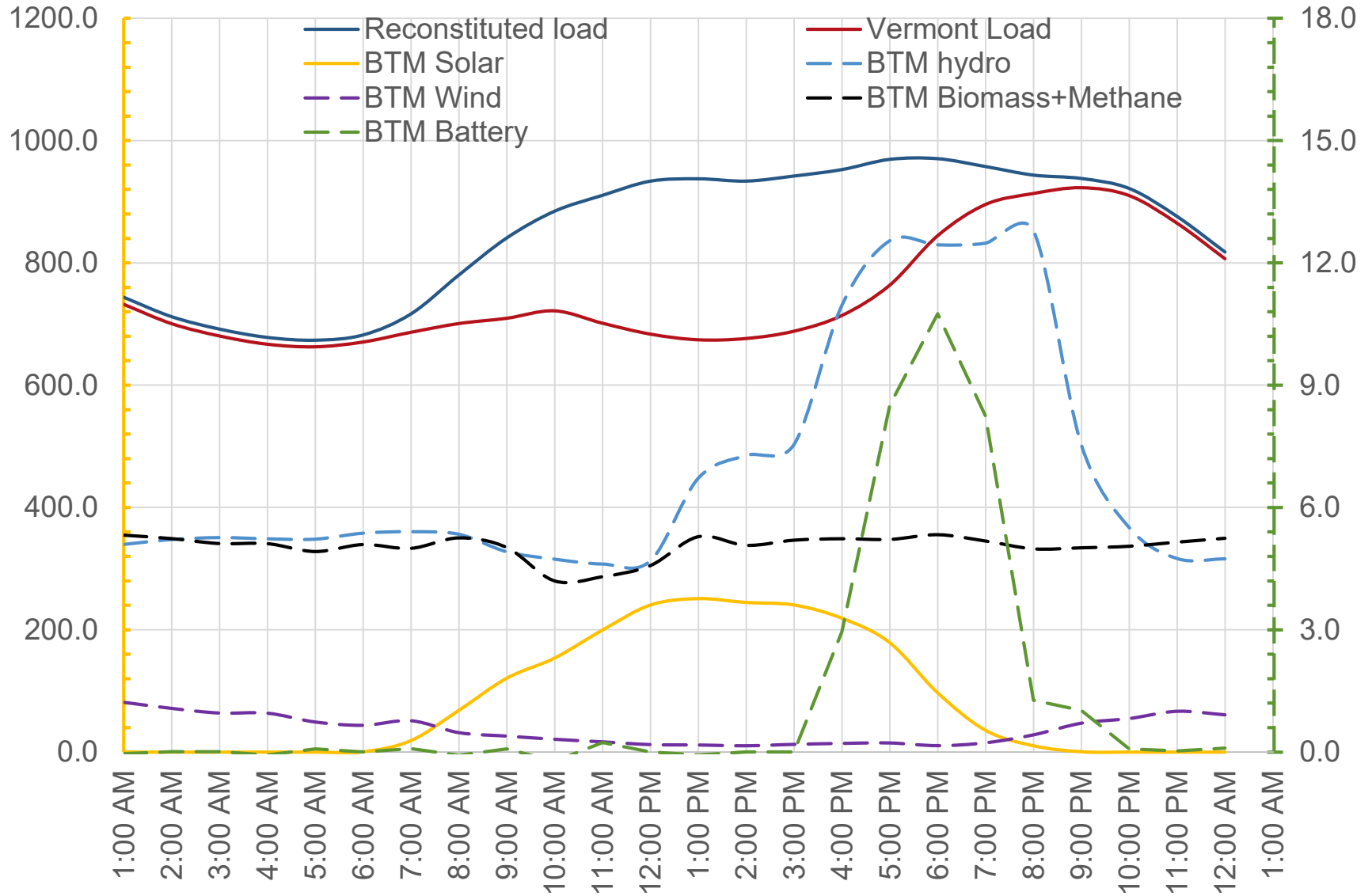
# Vermont's resources

	Summer capacity	Renewable	Weather dependent	Inverter interfaced
Biomass (wood)	75	Yes		
Hydro	129	Yes	Yes	
Diesels and GTs	157			
Methane (landfill)	13	Yes		
Wind	150	Yes	Yes	Yes
Solar	20	Yes	Yes	Yes
<b>Behind-the-meter</b>				
Biomass	8.23	Yes		
Hydro	27.7	Yes	Yes	
Methane (farm)	7.02	Yes		
Wind	1.57	Yes	Yes	Yes
Solar	327.18	Yes	Yes	Yes
Battery	17.20			Yes
<b>Total</b>	<b>940</b>	<b>765</b>	<b>662</b>	<b>516</b>
Highgate HVDC	222	Maybe		Yes

# July 20, 2019 (Vermont Summer peak day)



# July 20, 2019 (Vermont Summer peak day)



# July 30, 2019 (VT load on the New England Summer peak day)

