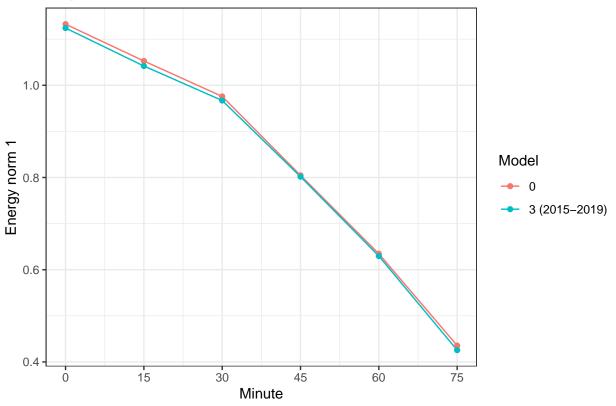
Energy norm 1

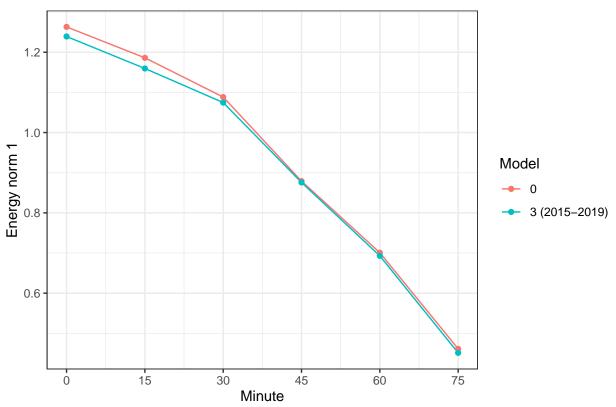
```
library(dplyr)
library(ggplot2)
library(tidyr)
library(knitr)
load("data/HDA2.RData")
load("~/GitHub/soccer-live-predictions/soccer-live-predictions/scrape/data/reds.RData")
nrow(HDA2)
## [1] 340
all = tibble(ENERG1 = apply(HDA2[,c(81:92)], 2, mean),
             Minute = as.integer(rep(c(0, 15, 30, 45, 60, 75), 2)),
             Model = factor(c(rep("0", 6), rep("3 (2015-2019)", 6)),
                            levels = c("0", "3 (2015-2019)")))
all %>%
  ggplot(aes(x = Minute, y = ENERG1, col = Model)) +
  geom_line() +
  geom_point() +
  scale_x_continuous(breaks = c(0, 15, 30, 45, 60, 75)) +
  theme_bw() +
  ggtitle("All predicted matches") +
  ylab("Energy norm 1")
```

All predicted matches



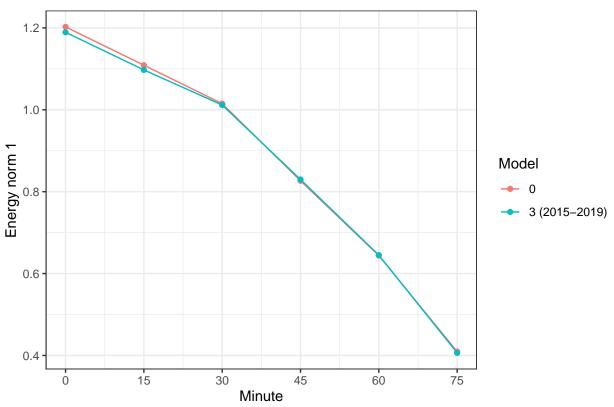
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)	1.132575				0.6346003 0.6297095	

First 100 matches



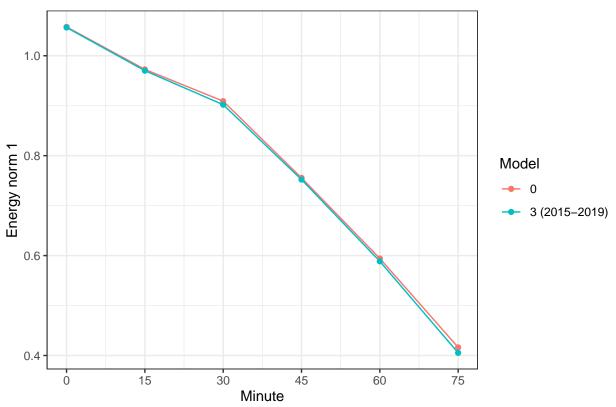
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)	$1.263071 \\ 1.239198$	$1.186114 \\ 1.159543$		0.0.000.	0.7007795 0.6929703	000

First 200 matches



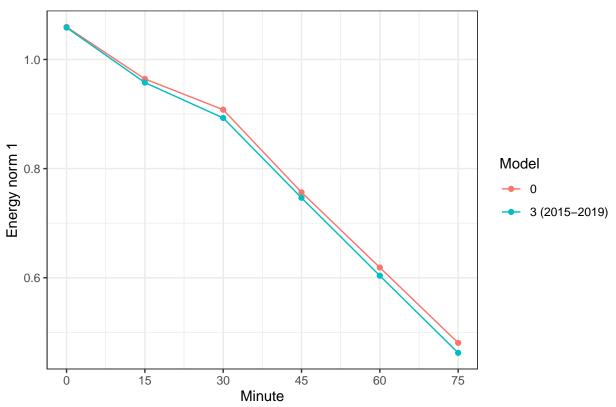
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0	1.202478	1.108932		0.0_0000	0.6439369	0.2000.00
3(2015-2019)	1.189279	1.097404	1.011607	0.8297361	0.6450285	0.4062678

Last 200 matches



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)		0.00-00	$\begin{array}{c} 0.9090899 \\ 0.9020345 \end{array}$	000	0.00 == 000	00-000

Last 100 matches

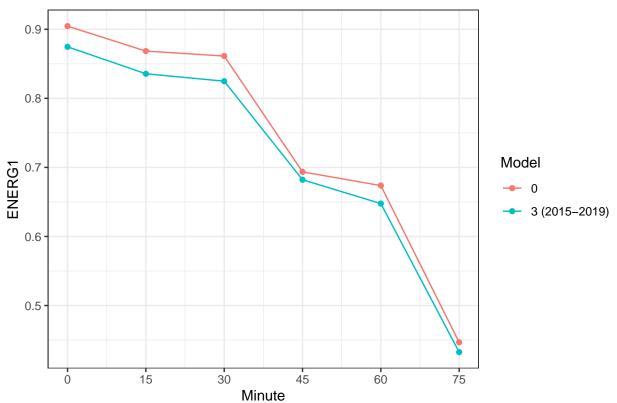


Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)		$\begin{array}{c} 0.9642762 \\ 0.9576515 \end{array}$	0.00.00==	0	0.0-0.00-	000000

```
matches = reds %>%
  filter(Season == 2020, Half == 1) %>%
   .$Match
length(matches)
```

[1] 23

All matches with red cards in the first half



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)	0.00-00-0	0.0000-	0.8613110 0.8248627	0.000000	0.0.0000	00.000