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library(readxl)
library(ggplot2)

renewables_data <- read_excel("electricity.xlsx") |>
  subset(select = c("COUNTRY", "YEAR", "MONTH", "PRODUCT", "share")) |>
  transform(
    share = as.numeric(share),
    Date = as.Date(paste(YEAR, MONTH, "01", sep = "-"))
  ) |>
  subset(COUNTRY %in% c("IEA Total", "Hungary", "Iceland") & YEAR >= 2015 & PRODUCT ==
"Renewables")

renewables_data |>
  ggplot(aes(x = Date, y = share * 100, color = COUNTRY)) +
  geom_line(aes(group = COUNTRY)) + # Separate lines by country
  geom_point() + # Add points for each month
  scale_y_continuous(limits = c(0, 100)) +
  scale_x_date(limits = as.Date(c("2015-01-01", "2022-12-01")),
    date_breaks = "1 year", date_labels = "%Y") +
  labs(title = "Evolution of the Monthly Production of Renewable Energy",
    x = "Year",
    y = "Share of Renewable energy (%)",
    color = "Country") +
  theme_minimal() +
  theme(
    plot.title = element_text(hjust = 0.5)
  )

```

