Hello, everyone. My name is Yerin Lee, and Today, I'm going to talk about whether mandatory EV adoption is the right decision or premature at this stage.

As countries push for EV adoption to counter climate change, some question whether mandatory EV policies are realistic and effective. In this presentation, I will emphasize that mandating EVs is premature due to issues with charging infrastructure, economic burdens, and environmental concerns related to battery production and disposal.

Let’s begin by exploring the issue of inadequate charging infrastructure.

There are fewer charging stations than gas stations, which makes long trips inconvenient.

Charging is also slow—4-5 hours compared to minutes for refueling.

Not only that, the high cost of installing charging stations deters both private and public investment.

This highlights why mandating EVs is premature.

Now, let’s discuss the economic challenges of adopting electric vehicles.

First, EVs cost more upfront than engine vehicles.

Additionally, replacing the battery can be quite expensive, often costing thousands of dollars.

While government subsidies provide some relief, they are a short-term solution and can place a strain on public resources.

Let’s move on to the environmental challenges of electric vehicles.

First, mining raw materials like lithium and cobalt for EV batteries leads to habitat destruction and water pollution.

Second, the production of EV batteries requires a lot of energy, often from fossil fuels.

Finally, disposing of old batteries causes soil pollution, and recycling technology remains underdeveloped.

Some argue for quickly mandating EVs to reduce carbon emissions, but current technology and infrastructure have limitations yet. According to the Journal Hidden Effects and Externalities of Electric Vehicles, over 63% of global electricity is still generated from fossil fuels, meaning that EV cannot fully resolve environmental issues.

In conclusion, inadequate charging infrastructure, economic costs, and environmental issues show that mandatory EV adoption is premature. I believe policymakers should focus on improving charging networks and developing recycling systems to enable a more gradual and sustainable transition.

This is a reference list.

And Thank you for listening to my presentation.